

<u>Climax Mine</u> Highway 91 - Fremont Pass Climax, CO 80429 Phone (719) 486-7718 Fax (719) 486-2251

Sent by Email

May 3, 2021

Mr. Dustin Czapla, Environmental Protection Specialist Colorado Division of Reclamation, Mining and Safety 1313 Sherman St., Rm. 215 Denver, CO 80203

Re: PDWTP Influent Pipeline – Climax Mine Permit No. M-1977-493

Dear Mr. Czapla:

Climax is providing this 5-day follow-up written notice pursuant to Rule 8.2.3 of the DRMS Rules and Regulations for Hard Rock, Metal, and Designated Mining Operations. On Tuesday, April 27, 2020, Climax identified a small leak (approximately 10 gallons per minute (gpm)) from the Climax Property Discharge Water Treatment Plant (PDWTP) influent pipeline, which it conservatively considered as a potential failure or imminent failure of an Environmental Protection Facility (EPF) pursuant to Rule 8.1(b). Climax left a voicemail with Environmental Protection Specialist Dustin Czapla at approximately 4:30pm on April 27, 2021 and spoke to Environmental Protection Specialist Lucas West at approximately 9:30am on April 28, 2021 in accordance with Rules 8.2.1(a) and 3.1.13(1).

Climax also reported this incident to CDPHE pursuant to the Colorado Water Quality Control Act (§ 25-8-601(2), C.R.S.). Consistent with Rule 3.1.13(3), attached is a copy of the 5-day written notification to CDPHE.

Description of Incident:

The incident occurred at the Climax Mine located at Fremont Pass – Highway 91 Climax, CO 80429. At 12:30pm on April 27, 2021 an operator maintaining the road associated with the West Interceptor noticed excess water flowing on the road and into the West Interceptor. The West Interceptor is a stormwater diversion conveyance that flows to an area called the mixing zone where water from the West Interceptor, East Interceptor, and effluent from the Climax PDWTP come together. From here the water flows to Outfall 001A under Climax's Colorado Discharge Permit System (CDPS) permit (No. CO0000248) and into Tenmile Creek.

At 1:45pm Climax confirmed that the water was coming from a small leak in the PDWTP influent pipeline located adjacent to the West Interceptor. Once this determination was made, the pump that feeds the pipeline was shut down and a berm was placed on the West Interceptor road to prevent additional water from entering the West Interceptor. The flow into the West Interceptor was stopped/contained on April 27, 2021 at approximately 3:30pm. It is estimated that approximately 1,800 gallons of water flowed into the West Interceptor before the pipeline stopped discharging.

Required Information under Rule 8.2.3, paragraphs (a) through (e):

(a) actions taken to respond to and correct the emergency situation or condition;

Climax Response: The pump that feeds the pipeline was shut down and a berm was placed on the

West Interceptor road to prevent additional process water from entering the West Interceptor. The pipeline was excavated on April 28, 2021 to identify the location of the leak and repairs will completed by May 5, 2021.

(b) any known or anticipated adverse impacts to human health, property or the environment;

Climax Response: There are no known impacts to human health, property or the environmental because a sample taken at CDPS Outfall 001A indicated that there were no exceedances of permit effluent limitations.

(c) name(s), address(s), telephone numbers and e-mail address of the Operator's contact person for additional information and follow-up by the Office;

Climax Response: Diana Kelts, Environmental Manager – <u>dkelts@fmi.com</u>, 719-486-7525 Climax Mine Fremont Pass-Highway 91 Climax, Co 80429

(d) monitoring and analyses that are necessary to evaluate the situation and corrective actions, copies of all pertinent data; and

Climax Response: See attached lab analysis for the pipeline leakage and Outfall 001A. The pH was measured in the field. The pH for the pipeline leakage, noted as Mayflower Decant in the lab report, was 7 and the pH measured at Outfall 001A was 8.08.

(e) results of the Operator's investigation to assess the conditions or circumstances that created the emergency situation, and what corrective or protective measures will be taken to prevent a similar event from occurring in the future.

Climax Response: It was determined that the 42" steel pipe had formed a crack at a welded joint causing the leak. The pipeline will be patched on May 5, 2021. The pipeline will be taken down again in June so the section of pipeline can be replaced. Going forward the following actions will be implemented:

- Continue area inspections every shift
- Continuation of the Cathodic Protection System and annual testing
- Internal video inspections on 10-year frequency starting in 2021

Please feel free to contact me at (719) 486-7525 or at <u>dkelts@fmi.com</u> if you need any further information regarding this matter. Thank you for your continued assistance with Climax Mine.

Sincerely, Piana helto,

Diana Kelts Environmental Manager

Attachments



COLORADO

Water Quality Control Division Department of Public Health & Environment

Five day reporting form

Incident / spill / sanitary sewer overflow release

Use this form to report incidents impacting waters of the state

The Water Quality Control Division distinguishes between reporting requirements for incidents that occur at entities operating under a Colorado Discharge Permit System (CDPS) permit and those resulting from non-permitted activities.

Permitted activities - Reporting and management of non-compliance incidents and spills that occur as a result of permitted activities should be performed in accordance with the specific requirements in the notifications section of your permit. You may use this form to submit the information requested in the permit.

Non-permitted activities - In the case of an activity where a permit does not address reporting of, or response to, a given spill please submit a written summary of the event, your response, and clean up efforts to the division within five working days of the date of the event. This form is provided for your convenience. If you have any questions please contact the division's field services staff person assigned to your spill case.

Prior to the five working day deadline you may request an extension to submit the report if needed for sampling analysis or other reasons. To request an extension please send an email to the division's field services staff person assigned to your spill case or to the spill administrator. The field services contact list is available at: www.colorado.gov/cdphe/wq-inspection-services-contact-us.

Please send the completed form or report with signature to the division's field services spill administrator:

Michelle Thiebaud 222 S. Sixth Street, 232 Grand Junction, CO 81501 Telephone: 970-248-7150 Fax: 970-248-7198 Email: <u>michelle.thiebaud@state.co.us</u>

1. Incident background info	rmation							
Incident/spill number (division provided)	2021-0165		Date of event	April 27, 20212	County	Summit		
Type of incident / spill / SSO	(check one)			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -				
□ Sanitary sewer overflow		1	e water/reuse med water	water/	🗆 Biosoli	ids		
Wastewater treatment plan upset (authorized outfall plan upset)		🗆 Petrol	eum product		🗆 Oil or	gas field production spill		
Wastewater treatment plan overflow (other than outfa		🗆 Chemi	cal		🛛 Other			
Estimated volume released	1,800 gallo	ons						
Size and depth of area affecte	d Not applica	ble						
Contact information		NEELSEN -						
Potentially responsible party c	ontact name		Diana Kelts, Er	ivironmental Mana	iger			
Potentially responsible party c	ompany/agency n	ame	Climax Mine					
CDPHE Permit number and fac	ility name (if appli			ed up-gradient fro t No. CO0000248	om Outfall (001A identified in the Climax		
Email address			dkelts@fmi.co	m	Phor	ne 719-486-7525		
2. Incident information: Ple	ase provide the f	ollowing in	formation.					
A. Describe incident includin	ig source, cause, a	nd locatior	ı (e.g. address	, latitude/longitud	de).	n en en service de la construction de la construction de la construction de la construction de la construction La construction de la construction d		
At 12:30pm on April 27, 2021 a and into the West Interceptor.	At 1:45pm Climax	confirmed	I that the wate	er was coming fror	n the Clima	ax Property Discharge Water		

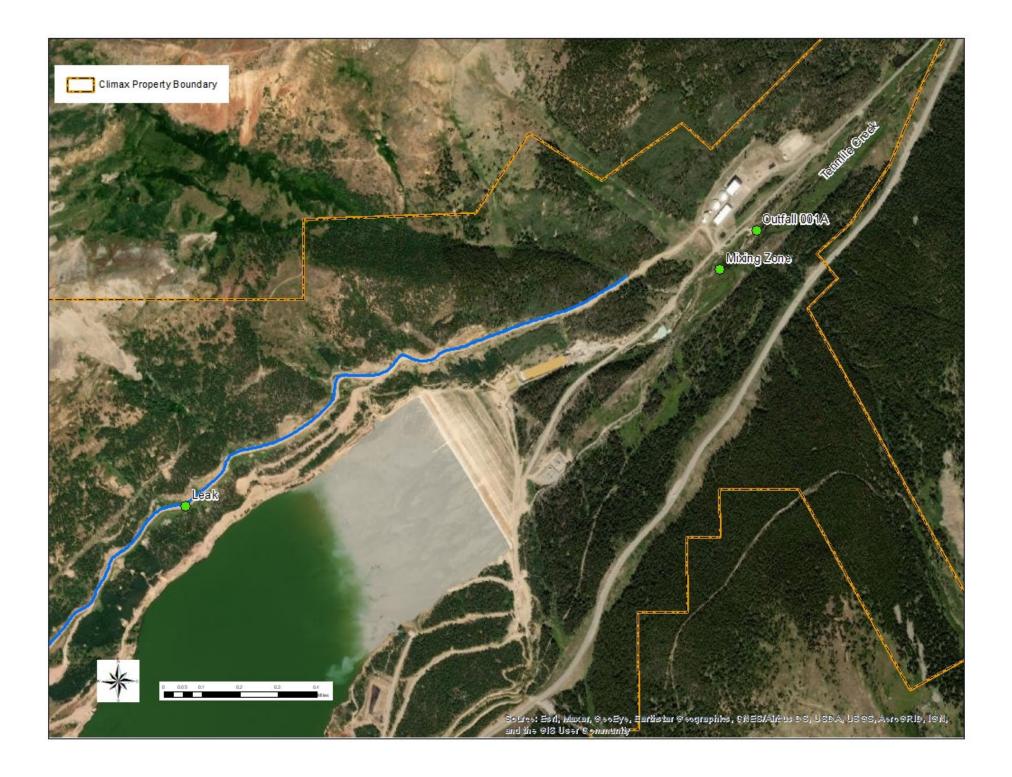
Treatment Plant (PDWTP) influent pipeline located adjacent to the West Interceptor. Site supervision was contacted and the pump feeding the line was shutdown. Operators at the leak location indicated that flow stopped from the leak at 3:30pm. After the pipeline was excavated the following day on April 28, 2021, it was determined that the 42" steel pipe had formed a crack at a welded joint causing the leak. The incident occurred at the Climax Mine located at Fremont Pass - Highway 91 Climax, CO 80429. The attached map shows the location of the leak.

B. Material released, e.g. untreated wastewater, specific chemical or product, biosolids. Please attach the OSHA Material Safety Data Sheets for any and all chemicals or products in spill or release.

pH neutral water from the Mayflower Tailing Storage Facility

	Actual or estimated duration of the event and time spill was fully controlled/stopped. If release is still occurring, the date and time the release is expected to be stopped.
lt i	estimated that the leak started at 12:30pm on April 27, 2021 and was fully controlled/stopped at 3:30pm on April 27, 2021.
D.	Describe measures taken or planned to contain, reduce, and clean up spill or release.
fee to p	he day of the incident, and as soon as Climax confirmed the source of the water flowing into the West Interceptor, the pump ling the pipeline was stopped and flow was ceased. A berm was placed between the leaking pipeline and the West Interceptor revent any remaining water on the road from entering the West Interceptor. The pipeline repair is expected to be completed hay 5, 2021 and the pipeline will not be charged/repressurized until the repair occurs.
E.	Describe steps taken or planned to prevent reoccurrence.
	lready noted, the pipeline will be repaired on May 5, 2021. The pipeline will be taken down again in June 2021 so the section peline can be replaced. Going forward the following actions will be implemented:
	 Continue area inspections every shift Continuation of the Cathodic Protection System and annual testing
	 Internal video inspections on 10-year frequency starting in 2021
3.	Incident impact to state waters (As defined in § 25-8-103(19), C.R.S.).
	Examples of state waters include: stormwater conveyances (when they discharge to surface water), perennial streams, intermittent or ephemeral gulches, ditches, ponds, lakes, reservoirs, irrigation canals, wetlands and groundwater.
А.	Did flow or materials reach surface water of the state? If so, identify the water body or bodies and describe the path of flow. What quantity of material reached the surface waters and what was the resulting impact?
call Inte und	process water leaked from the pipeline at a rate of 10 gallons per minute into Climax's stormwater diversion conveyance of the West Interceptor. The West Interceptor than reports to an area called the mixing zone where water from the West rceptor, East Interceptor, and effluent from the Climax PDWTP come together. From here the water flows to Outfall 001A er Climax's CDPS permit (No. CO0000248) and into Tenmile Creek. It is estimated that approximately 1,800 gallons of process
sam	er flowed into the West Interceptor before the pipeline stopped discharging. There were no impacts to Tenmile Creek since ples taken at 3:17pm during the incident at Outfall 001A indicated that permit effluent limitations were not exceeded. See
	ched sample analysis for the leakage and Outfall 001A.
Β.	Did flow or materials reach groundwater of the state? If so, identify the water body or bodies and describe the path of flow. If yes, what quantity of material reached the ground or groundwater and what was the resulting impact?
No	
с.	Did the incident include any of the following? If so, please include additional details below.
	Chemical release Fish kill Sheen on water
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Not D.	□ Chemical release □ Fish kill □ Sheen on water applicable Were any water quality samples or other samples taken? If so, please describe sampling process, sampling location(s) in relationship to the incident, i.e. up/down stream and attach results.
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Not D. Yes not ana 4. A. The B. No	Chemical release Chemi

Signature	Name and title	Company, organization	Date
Diana 4 oft	Diana Kelts	Climax Molybdenum Company	5/3/2021
conna fi ente	Environmental Manager	Climax while	





Analytical Report

May 03, 2021

Report to: Paul Weber FMI- Climax Mine Company Highway 91 Fremont Pass Climax, CO 80429

cc: Elaine Dubois

Bill to: Accounts Payable FMI- Climax Mine Company P.O. Box 13407 Phoenix, AZ 85002

Project ID: ZH0000076W ACZ Project ID: L65529

Paul Weber:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 28, 2021. This project has been assigned to ACZ's project number, L65529. 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 L65529. 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 October 30, 2021. 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.

S. Habermehl

Scott Habermehl has reviewed and approved this report.







Project ID: ZH0000076W Sample ID: OUTFALL 001A

Inorganic Analytical Results

ACZ Sample ID:	L65529-01
Date Sampled:	04/27/21 15:17
Date Received:	04/28/21
Sample Matrix:	Surface Water

Inorganic Prep									
Parameter	EPA Method	Dilution	Result	Qual X	KQ Unit	s MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)							04/29/21 15:34	mfm
Total Hot Plate Digestion	M200.2 ICP-MS							04/29/21 12:30) mfm
Total Recoverable Digestion	M200.2 ICP-MS							04/30/21 14:05	6 mfm
Metals Analysis									
Parameter	EPA Method	Dilution	Result	Qual 3	KQ Unit	s MDL	PQL	Date	Analyst
Boron, total	M200.8 ICP-MS	1	0.0114		* mg/L	0.001	0.005	04/30/21 12:18	8 mfm
Cadmium, potentially dissolved	M200.8 ICP-MS	1	0.000273		mg/L	0.00005	0.00025	04/30/21 15:16	6 mfm
Chromium, potentially dissolved	M200.8 ICP-MS	1	<0.0005	U	mg/L	0.0005	0.002	04/29/21 17:18	8 mfm
Iron, total recoverable	M200.8 ICP-MS	1	0.0407		* mg/L	0.007	0.02	05/03/21 10:26	6 mfm
Manganese, potentially dissolved	M200.8 ICP-MS	1	0.879		mg/L	0.0004	0.002	04/29/21 17:18	8 mfm
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.635		mg/L	0.0002	0.0005	05/03/21 10:26	6 mfm
Nickel, potentially dissolved	M200.8 ICP-MS	1	0.00288		mg/L	0.0004	0.001	04/29/21 17:18	8 mfm
Selenium, potentially dissolved	M200.8 ICP-MS	1	0.00025		mg/L	0.0001	0.00025	04/29/21 17:18	8 mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0228		mg/L	0.006	0.015	04/29/21 17:18	s mfm
Wet Chemistry									
Parameter	EPA Method	Dilution	Result	Qual)	KQ Unit	s MDL	PQL	Date	Analyst
Sulfide as S	SM4500S2-D	1	0.099	В	mg/L	0.02	0.1	04/30/21 17:35	jck



Project ID: ZH0000076W Sample ID: MAYFLOWER DECANT ACZ Sample ID: **L65529-02** Date Sampled: 04/27/21 13:00 Date Received: 04/28/21 Sample Matrix: Surface Water

Inorganic Prep									
Parameter	EPA Method	Dilution	Result	Qual XC) Units	MDL	PQL	Date	Analyst
Acidify and filter (Potentially Dissolved)	Colorado 5 CCR 1002- 31.5.31 (2009)							04/29/21 15:38	mfm
Total Hot Plate Digestion	M200.2 ICP-MS			*				04/29/21 12:30	mfm
Total Recoverable Digestion	M200.2 ICP-MS			*				04/30/21 14:05	mfm
Metals Analysis									
Parameter	EPA Method	Dilution	Result	Qual XC) Units	MDL	PQL	Date	Analyst
Boron, total	M200.8 ICP-MS	1	0.0127	*	mg/L	0.001	0.005	04/30/21 12:19	mfm
Cadmium, potentially dissolved	M200.8 ICP-MS	100	<0.005	U *	mg/L	0.005	0.025	04/30/21 15:18	mfm
Chromium, potentially dissolved	M200.8 ICP-MS	1	<0.0005	U	mg/L	0.0005	0.002	04/29/21 17:20	mfm
Iron, total recoverable	M200.8 ICP-MS	1	6.11	*	mg/L	0.007	0.02	05/03/21 10:32	mfm
Manganese, potentially dissolved	M200.8 ICP-MS	100	12.6		mg/L	0.04	0.2	04/30/21 15:18	mfm
Molybdenum, total recoverable	M200.8 ICP-MS	1	0.836		mg/L	0.0002	0.0005	05/03/21 10:32	mfm
Nickel, potentially dissolved	M200.8 ICP-MS	1	0.0253		mg/L	0.0004	0.001	04/29/21 17:20	mfm
Selenium, potentially dissolved	M200.8 ICP-MS	1	0.00046		mg/L	0.0001	0.00025	04/29/21 17:20	mfm
Zinc, potentially dissolved	M200.8 ICP-MS	1	0.0524		mg/L	0.006	0.015	04/29/21 17:20	mfm
Wet Chemistry									
Parameter	EPA Method	Dilution	Result	Qual XC	Units	MDL	PQL	Date	Analyst
Sulfide as S	SM4500S2-D	1	0.131	*	mg/L	0.02	0.1	04/30/21 18:09	jck



Inorganic Reference

	A distinct sot of complex analyzed at a presific time		
Batch	A distinct set of samples analyzed at a specific time		
Found Limit	Value of the QC Type of interest Upper limit for RPD, in %.		
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)		
MDL	Method Detection Limit. Same as Minimum Reporting Limit ur	aless omitted or e	$\alpha_{\rm Hall}$ to the POL (see comment #5)
NIDL	Allows for instrument and annual fluctuations.	liess offitted of e	
PCN/SCN	A number assigned to reagents/standards to trace to the man	ufacturer's certific	ate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term		
QC	True Value of the Control Sample or the amount added to the		
Rec	Recovered amount of the true value or spike added, in % (exc		/Kq)
RPD	Relative Percent Difference, calculation used for Duplicate QC		
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)		
Sample	Value of the Sample of interest		
Sample Ty AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicat
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
LUSS			
LCSS	Laboratory Control Sample - Soil Duplicate	PQV	Practical Quantitation Verification standard
			•
LCSSD LCSW	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water	PQV	Practical Quantitation Verification standard
LCSSD LCSW Sample Typ	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations	PQV SDL	Practical Quantitation Verification standard Serial Dilution
LCSSD LCSW Sample Typ Blanks	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations Verifies that there is no or minimal co	PQV SDL	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure.
LCSSD LCSW Sample Typ Blanks Control Sar	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations Verifies that there is no or minimal control of the method, Note: The second	PQV SDL ontamination in th including the prej	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control San Duplicates	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations Nerifies that there is no or minimal control of the method, Verifies the accuracy of the method, Verifies the precision of the instrume	PQV SDL ontamination in th including the prep nt and/or method	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control Sar	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations Nerifies that there is no or minimal control of the method, Verifies the accuracy of the method, Verifies the precision of the instrume	PQV SDL ontamination in th including the prej nt and/or method ces, if any.	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations nples Verifies that there is no or minimal control from the method, verifies the accuracy of the method, verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration.	PQV SDL ontamination in th including the prej nt and/or method ces, if any.	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control San Duplicates Spikes/Fort	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations werifies that there is no or minimal comples Verifies the accuracy of the method, Verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration.	PQV SDL ontamination in th including the prej nt and/or method ces, if any.	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations mples Verifies that there is no or minimal control structure ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F	PQV SDL ontamination in th including the prep nt and/or method ces, if any.	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations werifies that there is no or minimal comples Verifies the accuracy of the method, Verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration.	PQV SDL ontamination in th including the prep nt and/or method ces, if any. PQL. The associa in immediate hold	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations mples Verifies that there is no or minimal control from the structure ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an	PQV SDL ontamination in th including the prep nt and/or method ces, if any. PQL. The associa n immediate hold gative threshold.	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. procedure. ted value is an estimated quantity. time.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H L	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations mples Verifies that there is no or minimal control from the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg	PQV SDL ontamination in th including the prep nt and/or method ces, if any. PQL. The associa in immediate hold gative threshold. e level of the associa	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure. ted value is an estimated quantity. time. botated value.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H L	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations mples Verifies that there is no or minimal control sample accuracy of the method, Verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or the same qu	PQV SDL ontamination in th including the prep nt and/or method ces, if any. PQL. The associa in immediate hold gative threshold. e level of the associa	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. o procedure. ted value is an estimated quantity. time. botated value.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H L U	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations mples Verifies that there is no or minimal control sample accuracy of the method, Verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or the same qu	PQV SDL ontamination in th including the prep nt and/or method ces, if any. PQL. The associa in immediate hold gative threshold. e level of the associate the sample detect	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. procedure. ted value is an estimated quantity. time. pociated value. tion limit.
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LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H L U U	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations Number of the explanations Verifies that there is no or minimal comples Verifies the accuracy of the method, Verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with an Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or the nces EPA 600/4-83-020. Methods for Chemical Analysis of Water at EPA 600/R-93-100. Methods for the Determination of Inorgan	PQV SDL	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. procedure. ted value is an estimated quantity. time. bociated value. tion limit. ch 1983. Environmental Samples, August 1993.
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LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H L U U thod Refere (1) (2) (3) (4) (5)	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations werifies that there is no or minimal comples Verifies the accuracy of the method, verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with and Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or the nces EPA 600/R-93-100. Methods for Chemical Analysis of Water at EPA 600/R-94-111. Methods for the Determination of Inorgan EPA 600/R-94-111. Methods for Evaluating Solid Waste.	PQV SDL ontamination in the including the prep nt and/or method ces, if any. PQL. The associate in immediate hold gative threshold. e level of the associate the sample detection and Wastes, Marca- nic Substances in in Environmental	Practical Quantitation Verification standard Serial Dilution e prep method or calibration procedure. procedure. ted value is an estimated quantity. time. bociated value. tion limit. ch 1983. Environmental Samples, August 1993.
LCSSD LCSW Sample Typ Blanks Control Sar Duplicates Spikes/Fort Standard Z Qualifiers B H L U U thod Refere (1) (2) (3) (4)	Laboratory Control Sample - Soil Duplicate Laboratory Control Sample - Water pe Explanations werifies that there is no or minimal comples Verifies the accuracy of the method, verifies the precision of the instrume ified Matrix Determines sample matrix interference Verifies the validity of the calibration. (Qual) Analyte concentration detected at a value between MDL and F Analysis exceeded method hold time. pH is a field test with and Target analyte response was below the laboratory defined neg The material was analyzed for, but was not detected above the The associated value is either the sample quantitation limit or the nces EPA 600/R-93-100. Methods for Chemical Analysis of Water at EPA 600/R-94-111. Methods for the Determination of Inorgan EPA 600/R-94-111. Methods for Evaluating Solid Waste.	PQV SDL	Practical Quantitation Verification standard Serial Dilution e prop method or calibration procedure. procedure. to procedure. ted value is an estimated quantity. time. bciated value. tion limit. ch 1983. Environmental Samples, August 1993. Samples - Supplement I, May 1994.
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https://acz.com/wp-content/uploads/2019/04/Ext-Qual-List.pdf

REP001.03.15.02

ACZ Project ID: L65529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

MGS18419ICV ICV 04/30/21 12:10 MS210426-2 0.0 0.0191 mgL 96 90 110 MGS18419ICV ICV 04/30/21 12:12 U mgL 0.0033 0.0033 MGS18332IFB LFB 04/30/21 12:16 MS210420-3 0.1001 0.0044 0.127 mgL 85 115 L85494.01LFM LFM 04/30/21 12:55 MS210420-3 0.1001 0.0044 0.127 mgL 83 70 130 L58 46 100 100 2 20	Boron, total			M200.8 IC	P-MS									
NORSINATION ICV 04/30/21 12:10 MS210426-2 .0.2 .0.191 mgl. 96 90 110 WGS18430CR LRB 04/30/21 12:12 MS210420-3 .01001 .0044 0127 mgl. 96 90 .0032 .0002 WGS18332LRB LRB 04/30/21 12:57 MS210420-3 .01001 .0044 .0127 mgl. 83 70 130 2 20 .0001 L65494-01LFM LFM 04/30/21 12:57 MS210420-3 .01001 .0044 .0127 mgl. 81 70 130 2 20 .0001 L65494-01LFM LFM 04/30/21 15:57 MS210420-3 .01001 .0044 .012 mgl. 81 70 130 2 20 .0001 Cadmium, pot-Mizel MS210420-3 .05005 U .051098 mgl. 101 85 115 .00011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011 .0011	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
NNS51841910B LGB 04/30/21 12:12 U mg/L -0.003 0.003 0.003 NGS18332LRB LFB 04/30/21 12:4 MS210420-3 01001 0.0044 mg/L 44 85 115 L65494-01LFM LFM 04/30/21 12:55 MS210420-3 01001 0.044 0127 mg/L 83 70 130 2 20 Cadmium, potentially Use MS210420-3 01001 0.044 0125 mg/L 83 70 130 2 2 20 Cadmium, potentially Use MS210420-3 01001 0.044 0125 mg/L 83 70 130 2 20 1mit Qual MCS18432 Use Ad30/21 15:1 MS210420-3 05005 U mg/L 100 85 115 U 1mit Qual 101 85 115 U 1mit Qual	WG518419													
NNS518332LRB LRB 04/30/21 12:14 MS210420-3 0.1001 .0.004 mgL 94 85 115 MGS18332LFB LFM 04/30/21 12:55 MS210420-3 0.1001 .0.004 .0127 mgL 83 70 130 2 20 L65494-01LFMD LFM 04/30/21 12:57 MS210420-3 .01001 .0044 .0125 mgL 81 70 130 2 20 C2Cdm1um, pot-HIW LFMD 04/30/21 15:01 MS210420-2 .0500 Sample Found Inits Rec? Lower Up mgL -0.00011 0.0101 . K <	WG518419ICV	ICV	04/30/21 12:10	MS210426-2	.02		.0191	mg/L	96	90	110			
NNS518332LFB LEFB LFB 04/30/21 12:15 MS210420-3 01001 .0044 0.127 mg/L 83 70 110 130 LES494-01LFMU LFMD 04/30/21 12:55 MS210420-3 01001 .0044 .0127 mg/L 81 70 130 2 20 Cadmium, potentially disord 12:55 MS210420-3 .01001 .0044 .0127 mg/L 81 70 130 2 20 MS210420-3 .01001 .0044 .0127 mg/L 81 70 130 2 20 MS210420-1 MS210420-2 .05 C Sample Found Inte Rec% Lower Up MD 10 85 111 MS210420-1 MS210420-2 .05 .05058 mg/L 101 85 110 .00011	WG518419ICB	ICB	04/30/21 12:12				U	mg/L		-0.003	0.003			
LB6349-01LFML LFML 04/30/21 12:57 MS210420-3 0.1001 0.044 0.127 mg/L 83 70 130 2 20 Cadmium, potentially Uses MS210420-3 0.1001 0.044 0.125 mg/L 81 70 130 2 20 Cadmium, potentially MS210420-3 0.001 0.044 0.125 mg/L 81 70 130 2 20 AC2 ID Type Analyzed PCN/SCN QC Sample Found Units Rec? Lower Upper RPD Limit Qual WG518432LCV ICV 04/30/21 15:11 MS210420-3 0.5005 U Mg/L 100 mg/L 0.00015 0.00015 ICV MS210420-3 0.5005 U Mg/L 103 70 130 100 20 MG518432LV ICV 04/30/21 15:30 MS210420-3 0.5005 U Mg/L 101 mg/L 80 110 100 1	WG518332LRB	LRB	04/30/21 12:14				U	mg/L		-0.0022	0.0022			
Less49-01LFMD LFMD 04/30/2112:57 MS210420-3 .0101 .0044 .0125 mg/L 81 70 130 2 20 Cadmium, potential Type Analyzed PCM/SCN QC Sample Found Units Rec' Lower Upper RPD Limit Qual WG518432ICW ICV 04/30/21 15:09 MS210426-2 .05 .051098 mg/L .02 90 110 .00011 .00011 WG518432ICB ICB 04/30/21 15:10 MS210420-3 .05005 U .051665 mg/L 101 85 115	WG518332LFB	LFB	04/30/21 12:16	MS210420-3	.01001		.0094	mg/L	94	85	115			
AC2 ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG518432I WG518432I/C ICV 04/30/21 15:09 MS210426-2 .05 .051098 mg/L 102 90 110	L65494-01LFM	LFM	04/30/21 12:55	MS210420-3	.01001	.0044	.0127	mg/L	83	70	130			
ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WGS18432IC ICV 04/30/21 15:09 MS210426-2 .05 .051098 mg/L 102 90 110	L65494-01LFMD	LFMD	04/30/21 12:57	MS210420-3	.01001	.0044	.0125	mg/L	81	70	130	2	20	
WG518432 WG518432L/C ICV 04/30/21 15:09 MS210426-2 .05 .051098 mg/L 102 90 110 WG518432L/CB ICB 04/30/21 15:12 MS210420-3 .05005 .050581 mg/L 101 85 115 WG518432L/EB LFB 04/30/21 15:12 MS210420-3 .05005 U mg/L 0.00015 .000015 L65524-02AS AS 04/30/21 15:30 MS210420-3 .05005 U .045565 mg/L 103 70 130 10 20 Chromium, potentially dissolved M200.8 ICP-MS M200.8 ICP-MS K	Cadmium, pote	ntially di	ssolved	M200.8 IC	P-MS									
ViceSit8432ICV ICV 04/30/21 15:09 MS210426-2 .05 .051098 mg/L 102 90 110 WG518432ICB ICB 04/30/21 15:11 MS210420-3 .05005 .050581 mg/L 101 85 .115 WG518432ICB LFB 04/30/21 15:12 MS210420-3 .05005 U mg/L -0.00015 .000015 .000015 WG518382PBW PBW 04/30/21 15:32 MS210420-3 .05005 U .045565 mg/L 103 70 130 10 20 L65524-02ASD ASD 04/30/21 15:32 MS210420-3 .05005 U .045565 mg/L 93 70 130 10 20 Chromium, potentially closed MS210420-3 .05005 U mg/L 101 90 110 VICM MS210420-3 U mg/L -0.0011 0.0011 WS18383ICB ICB MS210420-3 U mg/L 20 <	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WGS18432ICB ICB 04/30/21 15:11 MS210420-3 .05005 U mg/L -0.00011 0.00011	WG518432													
WGS18432LFB LFB 04/30/21 15:12 MS210420-3 .05005 U .050581 mg/L 101 85 115	WG518432ICV	ICV	04/30/21 15:09	MS210426-2	.05		.051098	mg/L	102	90	110			
WG\$18382PBW PBW 04/30/21 15:14 MS210420-3 .05005 U .051565 mg/L 103 70 130 L65524-02AS ASD 04/30/21 15:32 MS210420-3 .05005 U .051565 mg/L 93 70 130 10 20 Chromium, pote-tally condensity M200.8 ICP-MS M200.8 ICP-MS Nover Upper RPD Lmit Qual WG\$18383 MS210420-3 .05005 U .046565 mg/L 101 90 110 V V M2D0.8 ICP-MS V V M2D1420-3 .05005 U .05062 mg/L 101 90 110 V V V M2D12117:02 MS210420-3 .05 U .05062 mg/L 90 110 .0011 .001	WG518432ICB	ICB	04/30/21 15:11				U	mg/L		-0.00011	0.00011			
L65524-02AS L65524-02ASD AS ASD 04/30/21 15:30 MS210420-3 .05005 U .051565 mg/L 103 70 130 10 20 L65524-02ASD ASD 04/30/21 15:32 MS210420-3 .05005 U .05165 mg/L 103 70 130 10 20 Chromium, pot=///ACZ ID Malyzed PCN/SCN QC Sample Found Units Rec' Lower Upper RPD Limit Qual WG518383 CV 04/29/21 17:02 MS210426-2 .05 .05062 mg/L 101 90 110 . Ker Lower Upper RPD Limit Qual WG518383 CB 04/29/21 17:02 MS210420-3 .05 . .05062 mg/L 101 90 110 . Ker Lower Upper APD Limit Qual WG518383 CB 04/29/21 17:04 MS210420-3 .05 U .0405 mg/L 96 85 115 	WG518432LFB	LFB	04/30/21 15:12	MS210420-3	.05005		.050581	mg/L	101	85	115			
ASD 04/30/21 15:32 MS210420-3 .05005 U .046556 mg/L 93 70 130 10 20 Chromium, potentially Jissoved M200.8 ICP-MS M200.8 ICP-MS M200.8 ICP-MS Rec% Lower Upper RPD Limit Qual WG518383 WG518383 U 04/29/21 17:00 MS210426-2 .05 .05062 mg/L 101 90 110 U V V V MS210426-2 .05 .05062 mg/L 101 90 110 U V <td>WG518382PBW</td> <td>PBW</td> <td>04/30/21 15:14</td> <td></td> <td></td> <td></td> <td>U</td> <td>mg/L</td> <td></td> <td>-0.00015</td> <td>0.00015</td> <td></td> <td></td> <td></td>	WG518382PBW	PBW	04/30/21 15:14				U	mg/L		-0.00015	0.00015			
Chromium, potentially dissolved M200.8 ICP-MS AC2 ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG518383 WG518383ICV ICV 04/29/21 17:00 MS210426-2 .05 .05062 mg/L 101 90 110	L65524-02AS	AS	04/30/21 15:30	MS210420-3	.05005	U	.051565	mg/L	103	70	130			
ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG518383 WG518383 WG518383 U U/29/2117:00 MS210426-2 .05 .05062 mg/L 101 90 110	L65524-02ASD	ASD	04/30/21 15:32	MS210420-3	.05005	U	.046556	mg/L	93	70	130	10	20	
WG518383 WG518383 WG518383 WG518383ICV ICV 04/29/21 17:00 MS210426-2 .05 .05062 mg/L 101 90 110 WG518383ICB ICB 04/29/21 17:02 U mg/L -0.0011 0.0011 0.0011 WG518383LFB LFB 04/29/21 17:04 MS210420-3 .05 .04797 mg/L 96 85 115 WG518382PBW PBW 04/29/21 17:05 U .04797 mg/L 96 85 115 L65524-01AS AS 04/29/21 17:13 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 L65524-01AS AS 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 L65524-01AS ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 Icos ASD 04/29/21 RSD RSD QC Sample Foun	Chromium, pote	entially d	issolved	M200.8 IC	P-MS									
WG518383ICV ICV 04/29/21 17:00 MS210426-2 .05 .05062 mg/L 101 90 110 WG518383ICB ICB 04/29/21 17:02 MS210420-3 .05 .04797 mg/L -0.0011 0.0011 WG518383LFB LFB 04/29/21 17:04 MS210420-3 .05 .04797 mg/L 96 85 115 WG518382PBW PBW 04/29/21 17:05 MS210420-3 .05 U mg/L -0.0015 0.0015 L65524-01AS AS 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 101 L65524-01AS ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 101 Icron, total recoverable M200.8 ICP-MS M200.8 ICP-MS M200.8 ICP M200.8 ICP U .0934 mg/L 93 90 110 M2 Qual WG518482ICV ICV 05/03/21 10:19 MS210503-1 .10016 .0934 mg/L	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG518383ICB ICB 04/29/21 17:02 U mg/L -0.0011 0.0011 0.0011 WG518383ICB LFB 04/29/21 17:04 MS210420-3 .05 .04797 mg/L 96 85 115 WG518383LFB LFB 04/29/21 17:04 MS210420-3 .05 U mg/L -0.0015 0.0015 L65524-01AS AS 04/29/21 17:14 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 Ic65524-01AS AS 04/29/21 17:14 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 20 Ic65524-01AS ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 20 Icron, total recoverable M200.8 ICP-MS M200.8 ICP-MS V M200.8 ICP N N N N N N N N N N N N N N N N N N N	WG518383													
WG518383LFB LFB 04/29/21 17:04 MS210420-3 .05 .04797 mg/L 96 85 115 WG518382PBW PBW 04/29/21 17:05 U mg/L -0.0015 0.0015 0.0015 L65524-01AS AS 04/29/21 17:13 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 L65524-01ASD ASD 04/29/21 17:14 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 L65524-01ASD ASD 04/29/21 17:14 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 L65524-01ASD ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 LFD ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 WG518482ICV ICV 05/03/21 10:21 MS210503-1 .10016 .0934	WG518383ICV	ICV	04/29/21 17:00	MS210426-2	.05		.05062	mg/L	101	90	110			
WG518382PBW PBW 04/29/21 17:05 U mg/L -0.0015 0.0015 0.0015 L65524-01AS AS 04/29/21 17:13 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 L65524-01AS ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 Icon, total recoverble M200.8 ICP-MS M200.8 ICP-MS M200.8 ICP-MS Limit Qual WG518482ICV ICV 05/03/21 10:19 MS210503-1 .10016 .0934 mg/L 93 90 110 Imit Qual WG518482ICV ICV 05/03/21 10:21 .10016 .0934 mg/L 93 90 110 Imit Qual WG518482ICV ICV 05/03/21 10:21 .10016 .0934 mg/L 93 90 110 Imit V Imit V Imit V Imit V Imit V Imit Imit Imit Imit Imit Imit Imit Imi	WG518383ICB	ICB	04/29/21 17:02				U	mg/L		-0.0011	0.0011			
L65524-01AS AS 04/29/21 17:13 MS210420-3 .05 U .04596 mg/L 92 70 130 L65524-01ASD ASD 04/29/21 17:14 MS210420-3 .05 U .04596 mg/L 92 70 130 0 20 Icon, total recoverable M200.8 ICP-MS M200.8 ICP-MS V <t< td=""><td>WG518383LFB</td><td>LFB</td><td>04/29/21 17:04</td><td>MS210420-3</td><td>.05</td><td></td><td>.04797</td><td>mg/L</td><td>96</td><td>85</td><td>115</td><td></td><td></td><td></td></t<>	WG518383LFB	LFB	04/29/21 17:04	MS210420-3	.05		.04797	mg/L	96	85	115			
L65524-01ASD ASD 04/29/21 17:14 MS210420-3 .05 U .04576 mg/L 92 70 130 0 20 Iron, total recoverable M200.8 ICP-MS M200.8 ICP-MS V .04576 mg/L 92 70 130 0 20 MC2 ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG518482ICV ICV 05/03/21 10:21 MS210503-1 .10016 .0934 mg/L 93 90 110 V	WG518382PBW	PBW	04/29/21 17:05				U	mg/L		-0.0015	0.0015			
Iron, total recoverable M200.8 ICP-MS Acz ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG518482ICV ICV 05/03/21 10:19 MS210503-1 .10016 .0934 mg/L 93 90 110 - - - - 0.021 - - - 0.021 0.021 - - - 0.0154 0.0154 - - - 0.0154 0.0154 - - - - 0.0154 0.0154 - - - 0.0154 0.0154 - - - 0.0154 - - - 0.0154 - - - 0.0154 - - - 0.0154 - - - 0.0154 - - - - 0.0154 - - - 0.0154 - - - - 0.0154 - -	L65524-01AS	AS	04/29/21 17:13	MS210420-3	.05	U	.04596	mg/L	92	70	130			
ACZ ID Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit Qual WG518482 WG518482ICV ICV 05/03/21 10:19 MS210503-1 .10016 .0934 mg/L 93 90 110 10016 .0934 mg/L -0.021 0.021 .0011 .00154<	L65524-01ASD	ASD	04/29/21 17:14	MS210420-3	.05	U	.04576	mg/L	92	70	130	0	20	
WG518482 WG518482ICV ICV 05/03/21 10:19 MS210503-1 .10016 .0934 mg/L 93 90 110 WG518482ICB ICB 05/03/21 10:21 U mg/L -0.021 0.021 WG518428LRB LRB 05/03/21 10:23 U mg/L -0.0154 0.0154 WG518428LFB LFB 05/03/21 10:25 MS210420-3 .0501 .0467 mg/L 93 85 115 L65529-01LFM LFM 05/03/21 10:28 MS210420-3 .0501 .0407 .0888 mg/L 96 70 130	Iron, total recov	verable		M200.8 IC	P-MS									
WG518482ICV ICV 05/03/21 10:19 MS210503-1 .10016 .0934 mg/L 93 90 110 WG518482ICB ICB 05/03/21 10:21 U mg/L -0.021 0.021 WG518428LRB LRB 05/03/21 10:23 U mg/L -0.0154 0.0154 WG518428LFB LFB 05/03/21 10:25 MS210420-3 .0501 .0467 mg/L 93 85 115 L65529-01LFM LFM 05/03/21 10:28 MS210420-3 .0501 .0407 .0888 mg/L 96 70 130	ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG518482ICB ICB 05/03/21 10:21 U mg/L -0.021 0.021 WG518428LRB LRB 05/03/21 10:23 U mg/L -0.0154 0.0154 WG518428LFB LFB 05/03/21 10:25 MS210420-3 .0501 .0467 mg/L 93 85 115 L65529-01LFM LFM 05/03/21 10:28 MS210420-3 .0501 .0407 .0888 mg/L 96 70 130	WG518482													
WG518428LRB LRB 05/03/21 10:23 U mg/L -0.0154 0.0154 WG518428LFB LFB 05/03/21 10:25 MS210420-3 .0501 .0467 mg/L 93 85 115 L65529-01LFM LFM 05/03/21 10:28 MS210420-3 .0501 .0407 .0888 mg/L 96 70 130	WG518482ICV	ICV	05/03/21 10:19	MS210503-1	.10016		.0934	mg/L	93	90	110			
WG518428LFB LFB 05/03/21 10:25 MS210420-3 .0501 .0467 mg/L 93 85 115 L65529-01LFM LFM 05/03/21 10:28 MS210420-3 .0501 .0407 .0888 mg/L 96 70 130	WG518482ICB	ICB	05/03/21 10:21				U	mg/L		-0.021	0.021			
L65529-01LFM LFM 05/03/21 10:28 MS210420-3 .0501 .0407 .0888 mg/L 96 70 130	WG518428LRB	LRB	05/03/21 10:23				U	mg/L		-0.0154	0.0154			
······	WG518428LFB	LFB	05/03/21 10:25	MS210420-3	.0501		.0467	mg/L	93	85	115			
_65529-01LFMD LFMD 05/03/21 10:30 MS210420-3 .0501 .0407 .0889 mg/L 96 70 130 0 20	L65529-01LFM	LFM	05/03/21 10:28	MS210420-3	.0501	.0407	.0888	mg/L	96	70	130			
	L65529-01LFMD	LFMD	05/03/21 10:30	MS210420-3	.0501	.0407	.0889	mg/L	96	70	130	0	20	

ACZ Project ID: L65529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

tentially	dissolved	M200.8 IC	P-MS									
Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
ICV	04/29/21 17:00	MS210426-2	.05		.05002	mg/L	100	90	110			
					U	-						
		MS210420-3	.0499			mg/L	96		115			
						-						
		MS210420-3	0499	0582		-	94					
						-				1	20	
NOD	04/23/21 17.14	MO210420-0	.0400	.0002	.10021		50	10	100		20	
	04/00/04 45:00	M0040400 0	05		05000	ma/l	400	00	110			
		MS210426-2	.05			-	102					
						-						
		MS210420-3	.0499			-	102					
						-						
	04/30/21 15:30	MS210420-3	.0499	.105	.1522	mg/L	95		130			
ASD	04/30/21 15:32	MS210420-3	.0499	.105	.14705	mg/L	84	70	130	3	20	
otal recov	verable	M200.8 IC	P-MS									
Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
ICV	05/03/21 10:19	MS210503-1	.01992		.01799	mg/L	90	90	110			
						-						
						-						
		MS210420-3	0501			-	90					
				635		-						
				.635	.68375	mg/L	97	70	130	1	20	
	l d											
-				0	Farmel	11	D0/	1	Unana	DDD	1 ::*	0
гуре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
ICV	0 1 /00 /0 1 1 T 00											
101	04/29/21 17:00	MS210426-2	.05		.05122	mg/L	102	90	110			
ICB	04/29/21 17:00 04/29/21 17:02	MS210426-2	.05		.05122 .00043	mg/L mg/L	102	90 -0.00088	110 0.00088			
		MS210426-2 MS210420-3	.05 .05			-	102 96					
ICB	04/29/21 17:02				.00043	mg/L		-0.00088	0.00088			
ICB LFB	04/29/21 17:02 04/29/21 17:04			.00127	.00043 .04809	mg/L mg/L		-0.00088 85	0.00088 115			
ICB LFB PBW	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05	MS210420-3	.05	.00127 .00127	.00043 .04809 U	mg/L mg/L mg/L	96	-0.00088 85 -0.0012	0.00088 115 0.0012	1	20	
ICB LFB PBW AS	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14	MS210420-3 MS210420-3	.05 .05 .05		.00043 .04809 U .04616	mg/L mg/L mg/L mg/L	96 90	-0.00088 85 -0.0012 70	0.00088 115 0.0012 130	1	20	
ICB LFB PBW AS ASD	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14	MS210420-3 MS210420-3 MS210420-3	.05 .05 .05		.00043 .04809 U .04616	mg/L mg/L mg/L mg/L mg/L	96 90	-0.00088 85 -0.0012 70 70	0.00088 115 0.0012 130	1 RPD	20 Limit	Qual
ICB LFB PBW AS ASD	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14 ssolved	MS210420-3 MS210420-3 MS210420-3 M200.8 IC	.05 .05 .05 P-MS	.00127	.00043 .04809 U .04616 .04574	mg/L mg/L mg/L mg/L mg/L	96 90 89	-0.00088 85 -0.0012 70 70	0.00088 115 0.0012 130 130			Qual
ICB LFB PBW AS ASD ntially dis	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14 ssolved Analyzed	MS210420-3 MS210420-3 MS210420-3 M200.8 IC PCN/SCN	.05 .05 .05 P-MS QC	.00127	.00043 .04809 U .04616 .04574	mg/L mg/L mg/L mg/L Units	96 90 89 Rec%	-0.00088 85 -0.0012 70 70 V	0.00088 115 0.0012 130 130 Upper			Qual
ICB LFB PBW AS ASD Intially dis Type	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14 ssolved Analyzed 04/29/21 17:00	MS210420-3 MS210420-3 MS210420-3 M200.8 IC	.05 .05 .05 P-MS	.00127	.00043 .04809 U .04616 .04574 Found	mg/L mg/L mg/L mg/L Units mg/L	96 90 89	-0.00088 85 -0.0012 70 70 0 Lower 90	0.00088 115 0.0012 130 130 Upper 110			Qual
ICB LFB PBW AS ASD Intially dis Type ICV ICB	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14 Ssolved Analyzed 04/29/21 17:00 04/29/21 17:02	MS210420-3 MS210420-3 MS210420-3 M200.8 IC PCN/SCN MS210426-2	.05 .05 P-MS QC .05	.00127	.00043 .04809 U .04616 .04574 Found U	mg/L mg/L mg/L mg/L Units mg/L mg/L	96 90 89 Rec% 98	-0.00088 85 -0.0012 70 70 20 -0.00022	0.00088 115 0.0012 130 130 Upper 110 0.00022			Qual
ICB LFB PBW AS ASD Intially dis Type ICV ICB LFB	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14 solved 04/29/21 17:00 04/29/21 17:02 04/29/21 17:02	MS210420-3 MS210420-3 MS210420-3 M200.8 IC PCN/SCN	.05 .05 .05 P-MS QC	.00127	.00043 .04809 U .04616 .04574 Found .04877 U .04828	mg/L mg/L mg/L mg/L Units mg/L mg/L	96 90 89 Rec%	-0.00088 85 -0.0012 70 70 Lower 90 -0.00022 85	0.00088 115 0.0012 130 130 Upper 110 0.00022 115			Qual
ICB LFB PBW AS ASD Intially dis Type ICV ICB	04/29/21 17:02 04/29/21 17:04 04/29/21 17:05 04/29/21 17:13 04/29/21 17:14 Ssolved 04/29/21 17:00 04/29/21 17:00	MS210420-3 MS210420-3 MS210420-3 M200.8 IC PCN/SCN MS210426-2	.05 .05 P-MS QC .05	.00127	.00043 .04809 U .04616 .04574 Found U	mg/L mg/L mg/L mg/L Units mg/L mg/L	96 90 89 Rec% 98	-0.00088 85 -0.0012 70 70 20 -0.00022	0.00088 115 0.0012 130 130 Upper 110 0.00022			Qual
	Type ICV ICB LFB PBW AS ASD ICV ICB LFB PBW AS ASD Otal recov Type ICV ICB LFB LFB LFB LFB LFB LFB LFB LF	ICV 04/29/21 17:00 ICB 04/29/21 17:02 LFB 04/29/21 17:02 LFB 04/29/21 17:05 AS 04/29/21 17:05 AS 04/29/21 17:05 AS 04/29/21 17:05 AS 04/29/21 17:13 ASD 04/29/21 17:14 ICV 04/30/21 15:09 ICB 04/30/21 15:11 LFB 04/30/21 15:12 PBW 04/30/21 15:12 PBW 04/30/21 15:30 ASD 04/30/21 15:32 Obtal recoverable 104/30/21 15:32 Dotal recoverable 10:23 LFB 05/03/21 10:23 LFMD 05/03/21 10:30 Illy dissolved 1030	Type Analyzed PCN/SCN ICV 04/29/21 17:00 MS210426-2 ICB 04/29/21 17:02 MS210420-3 LFB 04/29/21 17:04 MS210420-3 PBW 04/29/21 17:05 MS210420-3 AS 04/29/21 17:13 MS210420-3 ASD 04/29/21 17:14 MS210420-3 ICV 04/30/21 15:09 MS210420-3 ICV 04/30/21 15:10 MS210420-3 ICB 04/30/21 15:11 MS210420-3 IFB 04/30/21 15:12 MS210420-3 PBW 04/30/21 15:30 MS210420-3 PBW 04/30/21 15:30 MS210420-3 ASD 04/30/21 15:30 MS210420-3 ASD 04/30/21 15:32 MS210420-3 Dotal recoverable M200.8 ICI ICV 05/03/21 10:21 ICS ICB 05/03/21 10:25 MS210420-3 LFB 05/03/21 10:25 MS210420-3 LFB 05/03/21 10:25 MS210420-3 LFM 05/03/21 10:28 MS2	Type Analyzed PCN/SCN QC ICV 04/29/21 17:00 MS210426-2 .05 ICB 04/29/21 17:02 MS210420-3 .0499 PBW 04/29/21 17:05 MS210420-3 .0499 PBW 04/29/21 17:13 MS210420-3 .0499 AS 04/29/21 17:13 MS210420-3 .0499 ASD 04/29/21 17:14 MS210420-3 .0499 ASD 04/29/21 15:19 MS210420-3 .0499 ICV 04/30/21 15:10 MS210420-3 .0499 PBW 04/30/21 15:11 MS210420-3 .0499 PBW 04/30/21 15:30 MS210420-3 .0499 PBW 04/30/21 15:30 MS210420-3 .0499 ASD 04/30/21 15:32 MS210420-3 .0499 ASD 04/30/21 15:32 MS210420-3 .0499 ASD 04/30/21 15:32 MS210420-3 .0499 ICV 05/03/21 10:21 .0499 .0499 ICS 05/03/21 10:25 MS210420-3	Type Analyzed PCN/SCN QC Sample ICV 04/29/21 17:00 MS210426-2 .05 . ICB 04/29/21 17:02 MS210420-3 .0499 . LFB 04/29/21 17:04 MS210420-3 .0499 . PBW 04/29/21 17:05 MS210420-3 .0499 .0582 AS 04/29/21 17:13 MS210420-3 .0499 .0582 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 ICV 04/30/21 15:09 MS210420-3 .0499 .0582 ICV 04/30/21 15:12 MS210420-3 .0499 .0582 PBW 04/30/21 15:12 MS210420-3 .0499 .105 ASD 04/30/21 15:32 MS210420-3 .0499 .105 otal recoverable M200.8 ICP-MS M200.8 ICP-MS ICV 05/03/21 10:23 MS210420-3 .0501 .635 LFB 05/03/21 10:25 MS210420-3 .0501 .635 LFB 05/03/21 10:25 <td>Type Analyzed PCN/SCN QC Sample Found ICV 04/29/21 17:00 MS210426-2 .05 .05002 ICB 04/29/21 17:02 U U U LFB 04/29/21 17:04 MS210420-3 .0499 .04785 PBW 04/29/21 17:05 U U U AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 ICV 04/30/21 15:19 MS210420-3 .0499 .0582 .10621 ICV 04/30/21 15:11 U U U U AS 04/30/21 15:12 MS210420-3 .0499 .105 .1522 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 Dtal recoverable M200.8 ICP-MS U U U U ICV 05/03/21 10:21 U U U U U U</td> <td>Type Analyzed PCN/SCN QC Sample Found Units ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L ICB 04/29/21 17:02 U mg/L U mg/L LFB 04/29/21 17:04 MS210420-3 .0499 .04785 mg/L PBW 04/29/21 17:05 U mg/L .04785 mg/L AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 mg/L ICV 04/30/21 15:19 MS210420-3 .0499 .05083 mg/L LFB 04/30/21 15:12 MS210420-3 .0499 .105 .1522 mg/L ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L ASD 04/30/21 15:30 MS210420-3<td>Type Analyzed PCN/SCN QC Sample Found Units Rec% ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L 96 PBW 04/29/21 17:04 MS210420-3 .0499 .0582 .10528 mg/L 94 AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L 94 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 mg/L 96 ICV 04/30/21 15:10 MS210420-3 .0499 .0582 .10621 mg/L 96 ICV 04/30/21 15:12 MS210420-3 .0499 .05083 mg/L 102 ICB 04/30/21 15:14 U mg/L 102 mg/L 95 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L 94 ASD</td><td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L 96 85 PBW 04/29/21 17:05 MS210420-3 .0499 .0582 .10528 mg/L 94 70 AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10621 mg/L 96 70 ASD 04/29/21 15:19 MS210420-3 .0499 .0582 .10621 mg/L 96 70 ICV 04/30/21 15:19 MS210420-3 .0499 .0583 mg/L 102 90 ICB 04/30/21 15:12 MS210420-3 .0499 .105 .1522 mg/L 95 70 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L 84 70 Dtat</td><td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L -0.00088 0.00088 LFB 04/29/21 17:05 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 ASD 04/29/21 15:14 MS210420-3 .0499 .0582 .10621 mg/L 90 110 ICV 04/30/21 15:12 MS210420-3 .0499 .05083 mg/L 102 90 110 ICB 04/30/21 15:30 MS210420-3 .0499 .105 .1522 mg/L 90.0012 .0012 ASD 04/30/21 15:30 MS210420-3 .0499 .105</td><td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 ICB 04/29/21 17:02 U mg/L -0.00088 0.00088 LFB 04/29/21 17:04 MS210420-3 .0499 .0582 .10528 mg/L 96 85 115 PBW 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 1 ICV 04/30/21 15:11 MS210420-3 .0499 .0582 .10621 mg/L 96 70 130 1 ICV 04/30/21 15:14 U mg/L -0.0012 0.0012 .0012 LFB 04/30/21 15:14 U mg/L 0.0012 0.0012 .00172 .00172 .00172 .00172 .00172</td><td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 </td></td>	Type Analyzed PCN/SCN QC Sample Found ICV 04/29/21 17:00 MS210426-2 .05 .05002 ICB 04/29/21 17:02 U U U LFB 04/29/21 17:04 MS210420-3 .0499 .04785 PBW 04/29/21 17:05 U U U AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 ICV 04/30/21 15:19 MS210420-3 .0499 .0582 .10621 ICV 04/30/21 15:11 U U U U AS 04/30/21 15:12 MS210420-3 .0499 .105 .1522 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 Dtal recoverable M200.8 ICP-MS U U U U ICV 05/03/21 10:21 U U U U U U	Type Analyzed PCN/SCN QC Sample Found Units ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L ICB 04/29/21 17:02 U mg/L U mg/L LFB 04/29/21 17:04 MS210420-3 .0499 .04785 mg/L PBW 04/29/21 17:05 U mg/L .04785 mg/L AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 mg/L ICV 04/30/21 15:19 MS210420-3 .0499 .05083 mg/L LFB 04/30/21 15:12 MS210420-3 .0499 .105 .1522 mg/L ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L ASD 04/30/21 15:30 MS210420-3 <td>Type Analyzed PCN/SCN QC Sample Found Units Rec% ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L 96 PBW 04/29/21 17:04 MS210420-3 .0499 .0582 .10528 mg/L 94 AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L 94 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 mg/L 96 ICV 04/30/21 15:10 MS210420-3 .0499 .0582 .10621 mg/L 96 ICV 04/30/21 15:12 MS210420-3 .0499 .05083 mg/L 102 ICB 04/30/21 15:14 U mg/L 102 mg/L 95 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L 94 ASD</td> <td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L 96 85 PBW 04/29/21 17:05 MS210420-3 .0499 .0582 .10528 mg/L 94 70 AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10621 mg/L 96 70 ASD 04/29/21 15:19 MS210420-3 .0499 .0582 .10621 mg/L 96 70 ICV 04/30/21 15:19 MS210420-3 .0499 .0583 mg/L 102 90 ICB 04/30/21 15:12 MS210420-3 .0499 .105 .1522 mg/L 95 70 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L 84 70 Dtat</td> <td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L -0.00088 0.00088 LFB 04/29/21 17:05 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 ASD 04/29/21 15:14 MS210420-3 .0499 .0582 .10621 mg/L 90 110 ICV 04/30/21 15:12 MS210420-3 .0499 .05083 mg/L 102 90 110 ICB 04/30/21 15:30 MS210420-3 .0499 .105 .1522 mg/L 90.0012 .0012 ASD 04/30/21 15:30 MS210420-3 .0499 .105</td> <td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 ICB 04/29/21 17:02 U mg/L -0.00088 0.00088 LFB 04/29/21 17:04 MS210420-3 .0499 .0582 .10528 mg/L 96 85 115 PBW 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 1 ICV 04/30/21 15:11 MS210420-3 .0499 .0582 .10621 mg/L 96 70 130 1 ICV 04/30/21 15:14 U mg/L -0.0012 0.0012 .0012 LFB 04/30/21 15:14 U mg/L 0.0012 0.0012 .00172 .00172 .00172 .00172 .00172</td> <td>Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 </td>	Type Analyzed PCN/SCN QC Sample Found Units Rec% ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L 96 PBW 04/29/21 17:04 MS210420-3 .0499 .0582 .10528 mg/L 94 AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L 94 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10621 mg/L 96 ICV 04/30/21 15:10 MS210420-3 .0499 .0582 .10621 mg/L 96 ICV 04/30/21 15:12 MS210420-3 .0499 .05083 mg/L 102 ICB 04/30/21 15:14 U mg/L 102 mg/L 95 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L 94 ASD	Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L 96 85 PBW 04/29/21 17:05 MS210420-3 .0499 .0582 .10528 mg/L 94 70 AS 04/29/21 17:13 MS210420-3 .0499 .0582 .10621 mg/L 96 70 ASD 04/29/21 15:19 MS210420-3 .0499 .0582 .10621 mg/L 96 70 ICV 04/30/21 15:19 MS210420-3 .0499 .0583 mg/L 102 90 ICB 04/30/21 15:12 MS210420-3 .0499 .105 .1522 mg/L 95 70 ASD 04/30/21 15:30 MS210420-3 .0499 .105 .14705 mg/L 84 70 Dtat	Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 ICB 04/29/21 17:02 MS210420-3 .0499 .04785 mg/L -0.00088 0.00088 LFB 04/29/21 17:05 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 ASD 04/29/21 17:14 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 ASD 04/29/21 15:14 MS210420-3 .0499 .0582 .10621 mg/L 90 110 ICV 04/30/21 15:12 MS210420-3 .0499 .05083 mg/L 102 90 110 ICB 04/30/21 15:30 MS210420-3 .0499 .105 .1522 mg/L 90.0012 .0012 ASD 04/30/21 15:30 MS210420-3 .0499 .105	Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110 ICB 04/29/21 17:02 U mg/L -0.00088 0.00088 LFB 04/29/21 17:04 MS210420-3 .0499 .0582 .10528 mg/L 96 85 115 PBW 04/29/21 17:13 MS210420-3 .0499 .0582 .10528 mg/L 94 70 130 1 ICV 04/30/21 15:11 MS210420-3 .0499 .0582 .10621 mg/L 96 70 130 1 ICV 04/30/21 15:14 U mg/L -0.0012 0.0012 .0012 LFB 04/30/21 15:14 U mg/L 0.0012 0.0012 .00172 .00172 .00172 .00172 .00172	Type Analyzed PCN/SCN QC Sample Found Units Rec% Lower Upper RPD Limit ICV 04/29/21 17:00 MS210426-2 .05 .05002 mg/L 100 90 110

ACZ Project ID: L65529

NOTE: If the Rec% column is null, the high/low limits are in the same units as the result. If the Rec% column is not null, then the high/low limits are in % Rec.

Sulfide as S			SM4500S	52-D									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG518435													
WG518435ICV	ICV	04/30/21 16:20	WC210430-3	.348		.35	mg/L	101	90	110			
WG518435ICB	ICB	04/30/21 16:26				U	mg/L		-0.05	0.05			
WG518435LFB1	LFB	04/30/21 16:33	WC210430-6	.21956		.253	mg/L	115	80	120			
L65526-01AS	AS	04/30/21 16:47	WC210430-6	.21956	U	.248	mg/L	113	75	125			
L65526-01ASD	ASD	04/30/21 16:54	WC210430-6	.21956	U	.247	mg/L	112	75	125	0	20	
L65529-01AS	AS	04/30/21 17:55	WC210430-6	.21956	.099	.35	mg/L	114	75	125			
L65529-01ASD	ASD	04/30/21 18:02	WC210430-6	.21956	.099	.35	mg/L	114	75	125	0	20	
WG518435LFB2	LFB	04/30/21 20:06	WC210430-6	.21956		.248	mg/L	113	80	120			
Zinc, potentially	dissolv	ved	M200.8 IC	CP-MS									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec%	Lower	Upper	RPD	Limit	Qual
WG518383													
WG518383ICV	ICV	04/29/21 17:00	MS210426-2	.05		.0488	mg/L	98	90	110			
WG518383ICB	ICB	04/29/21 17:02				U	mg/L		-0.0132	0.0132			
WG518383LFB	LFB	04/29/21 17:04	MS210420-3	.050075		.0496	mg/L	99	85	115			
WG518382PBW	PBW	04/29/21 17:05				U	mg/L		-0.018	0.018			
L65524-01AS	AS	04/29/21 17:13	MS210420-3	.050075	.0606	.1095	mg/L	98	70	130			
L65524-01ASD	ASD	04/29/21 17:14	MS210420-3	.050075	.0606	.1095	mg/L	98	70	130	0	20	



(800) 334-5493

Inorganic Extended Qualifier Report

FMI- Climax Mine Company

ACZ Project ID: L65529

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65529-02	WG518432	Cadmium, potentially dissolved	M200.8 ICP-MS	DC	Sample required dilution. Non-target analyte exceeded calibration range.
	WG518435	Sulfide as S	SM4500S2-D		Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG518332	Total Hot Plate Digestion	M200.2 ICP-MS	Q5	Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.
	WG518428	Total Recoverable Digestion	M200.2 ICP-MS		Sample received with inadequate chemical preservation. Additional preservation performed by the laboratory.



ACZ Project ID: L65529

Metals Analysis

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

Boron, total Iron, total recoverable M200.8 ICP-MS M200.8 ICP-MS

Laboratories, Inc.

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

FMI- Climax Mine Company

ACZ Project ID: L65529 Date Received: 04/28/2021 11:35 Received By: Date Printed: 4/29/2021

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

8) Are all containers intact and with no leaks?

9) Are all labels on containers and are they intact and legible?

10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?

11) For preserved bottle types, was the pH checked and within limits?¹

L65529-02 Container B2397428 (RED PC): Added 1 mls nitric acid to the sub-sample to adjust the pH to the appropriate range.

L65529-02 Container B2397430 (GREEN PD PC): Added 0.5 mls nitric acid to the sub-sample to adjust the pH to the appropriate range.

L65529-02 Container B2397431 (TAN): Added 0.25 mls 5N sodium hydroxide and 0.25 mls zinc acetate to the sub-sample to adjust the pH to the appropriate range.

- 12) Is there sufficient sample volume to perform all requested work?
- 13) Is the custody seal intact on all containers?
- 14) Are samples that require zero headspace acceptable?
- 15) Are all sample containers appropriate for analytical requirements?

 $\tt L65529-02$: A red, green, and tan container not received and a new container created from the raw .

- 16) Is there an Hg-1631 trip blank present?
- 17) Is there a VOA trip blank present?
- 18) Were all samples received within hold time?

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

REPAD LPII 2012-03

YES	NO	NA
Х		
Х		
Х		
	Х	

Х		
		Х
		Х
	Х	

		Х
		Х
Х		
NA indica	tes Not Ap	plicable

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

ACZ Project ID: L65529 FMI- Climax Mine Company ZH0000076W Date Received: 04/28/2021 11:35 Received By: 4/29/2021 Date Printed: Temp Rad(µR/Hr) Custody Seal Cooler Id Temp(°C) Criteria(°C) Intact? _____ _ _____ _____ _____ NA34994 -0.3 <=6.0 15 Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was 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.

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), HCI preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

	oratorie	S , INC .	L6	55	20			AIN				
73 Downhill Drive Steamboat S	prings, CO_804	87 (800) 334-3	5493									
eport to			Δ	ddress	: High	way 9	1 - Fi	remont	Pass			
Name: Paul Weber Company:Climax Molybdenum Company				Address: Highway 91 - Fremont Pass Climax, CO 80429								
Company:Climax Molybdenum Company						9-486		3	_			
opy of Report to:			-	-mail [.]	edubo	is@fn	ni.cor	n				
_{ame:} Elaine DuBois _{ompany:} Climax Molybder	um Compan		F	E-mail:edubois@fmi.com Telephone:								
		<u>y</u>		leiepin								
voice to:				• • • • • • • •				-				
ame: Accounts Payable	0	Cald	Address:									
ompany Freeport-McMoR	an Copper &	Gold	-									
mail:Freeport@bscs.bas	ware.com		L .	Teleph nains t		lete				YES	×	
sample(s) received past hold alysis before expiration, sha		with roauoeto	d chort	HI ana	iivses r					NO [
NO" then ACZ will contact client for further ins	truction. If neither "YES"	" nor "NO" is indicate	ed, ACZ will p	proceed wit	h the reque	sted analys	es, even l	f HT is expir	ed, and dat	a will be qua	lified	
o complet for SDWA Compli	ance Monitoring	a?		Yes			No				<u> </u>	_
yes, please include state form				State:	20		Zip co	de 804	29	Time Z	one ^{MS}	SТ
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heck box if observe Daylight	Savings Time				ANAL	YSES RE	QUESTE	D (attach	list or use	e quote nu	mber)	
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_{O#:} ZH0000076W				nta	Ŏ	CDPS-002						
eporting state for compliance to			Γ	ပိ	Å.	Ľ۵						
heck box if samples include NF		E:TIME	Matrix		Ū							
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Mayflower Decant	4 27 21		SW	1	×					<u> </u>		
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REMARKS												
Field parameter Outfall 0	01A composit	ie										
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pH:		! [Please	exped	ite res	uits, or	ne daj	ytunia			•	
Conductivity:												
Direct	e refer to ACZ's	s terms & co	nditions	locate	d on th	ne reve	rse si	de of th	is COC	5		
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	BY:	DATE:	TIME			RECE	IVED	ы.				
RELINQUISHED	BY:	DATE:				RECE	/	Б Г.			8/21	1

Yellow - Retain for your records.

White - Return with sample.

FRMAD050.12.12.12