



October 28, 2022

VIA Electronic Mail: janet.binns@state.co.us

Ms. Janet Binns
Division of Reclamation, Mining, & Safety
Coal Program Support Staff
1313 Sherman Street, RM 215
Denver, Colorado 80203

RE: September 2022 Discharge Monitoring Report Submittal
CDPS Permit #CO-0000213
Elk Ridge Mining and Reclamation, New Horizon Mine
DRMS Mine Permit #C-1981-008

Dear Ms. Binns:

Enclosed are the Discharge Monitoring Reports (DMR) for the Elk Ridge Mining and Reclamation, LLC, New Horizon Mine CDPS Permit No. CO-0000213 for September 2022. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent to Elk Ridge Mining and Reclamation. The enclosed September DMRs were submitted electronically through the EPA's NetDMR program.

If you have any questions about the enclosed reports, please contact Darlene Crosby at 303-254-3055.

Sincerely,

DocuSigned by:

Chris Gilbreath

D250C711D0BF450...

Chris Gilbreath
Senior Manager
Remediation and Reclamation

CG:DC:

Enclosures

cc: Darlene Crosby (via email)
Jason Carver (via email)
Chantell Johnson (via email)
File G474-11.3(10)a-9a

From: netdmr-notification@epa.gov
To: [Johnson, Chantell](#); [Crosby, Darlene](#); [Walz, Barbara](#)
Subject: [EXTERNAL] NetDMR DMR(s) Submittal Passed for: CO0000213
Date: Thursday, October 27, 2022 1:39:56 PM

CAUTION: This email originated from outside of Tri-State. DO NOT click links or open attachments unless you recognize and/or trust the sender. Contact the IT Service Desk with questions or concerns.

The following signed 7 DMR(s) were submitted to EPA and were successfully processed:

CDX Transaction ID: _180dd5cb-0d93-4abf-bf1a-568423e355c3
User ID: BARBARAWALZ1
Timestamp: 10/25/2022 10:55:02

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 012
Discharge: A - SR and Mine Drainage to Tuttle Draw
Monitoring Period End Date: 09/30/22

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 012
Discharge: Q - Quarterly Monitoring for 012A
Monitoring Period End Date: 09/30/22

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 013
Discharge: A - SR & Mine Drainage to Tuttle Draw
Monitoring Period End Date: 09/30/22

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 013
Discharge: Q - Quarterly Monitoring for 013A
Monitoring Period End Date: 09/30/22

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 013
Discharge: X - CHRONIC WET TESTING FOR 013A
Monitoring Period End Date: 09/30/22

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 016
Discharge: A - SR & Mine Drainage Tributary to Tuttle Draw
Monitoring Period End Date: 09/30/22

Permitted Facility Name: NEW HORIZON MINE
Permit ID: CO0000213
Permitted Feature: 016
Discharge: Q - Quarterly Monitoring for 016A
Monitoring Period End Date: 09/30/22

Thank you.

OFFICIAL NOTIFICATION -- message sent AUTOMATICALLY by Production-NetDMR the official discharge monitoring report (DMR) data reporting environment used for compliance with both the Federal Clean Water Act and the Colorado Pollutant Discharge Elimination permit requirements to submit discharge data electronically

COLORADO – CDPS WET TEST REPORT FORM – CHRONICPERMITEE NAME: Tri-State – New Horizon MineCDPS NO: CO-0000213OUTFALL: 013TYPE TEST: ROUTINE ☒

ACCELERATED

TEST SPECIES: Ceriodaphnia dubia

Test Results:

Lethality

Growth

Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	NA	60%
PASS/FAIL	PASS	NA	FAIL
NOEC	100%	NA	40%
PASS/FAIL	PASS	NA	FAIL
IC ₂₅	>100%	NA	65.1% (95% C.I. unavailable)
PASS/FAIL	PASS	NA	FAIL

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀IC₂₅

ICp METHOD

TEST DATE/TIME: START8/16/22 10:40END8/22/22 10:30

DILUTIONS (%EFFLUENT)

	CONTROL	20%*	40%	60%	80%	100%
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100
2	100	100	100	100	100	100
3	100	100	100	100	100	100
4	100	100	100	100	100	100
5	100	100	100	100	100	100
6	100	100	100	100	90	100
MEAN 3 BROOD TOTAL:	38.0	39.1	27.2	30.9	21.5	17.0
7 DAY MEAN DRY WEIGHT:						
pH MAX/MIN:	8.4/8.1	8.5/8.4	8.6/8.5	8.7/8.5	8.5/8.3	8.3/8.2

MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 1100 RECON WATER: 100MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 290 RECON WATER: 67MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.42 FINAL EFFLUENT: NAMEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) NWERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

ANALYST: Michael HendricksSIGNATURE: LABORATORY: GEI Consultants, Inc./Ecological DivisionDATE: 9/15/22COMMENTS: *Technician error, accidental death; one replicate excluded from all statistical analyses.

COLORADO – CDPS WET TEST REPORT FORM – CHRONICPERMITEE NAME: Tri-State – New Horizon MineCDPS NO: CO-0000213OUTFALL: 013TYPE TEST: ROUTINE ☒ ACCELERATEDTEST SPECIES: Pimephales promelas

Test Results:

Lethality

Growth

Reproduction

CONC. WITH STAT. DIFFERENCE	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA
NOEC	100%	100%	NA
PASS/FAIL	PASS	PASS	NA
IC ₂₅	>100%	>100%	NA
PASS/FAIL	PASS	PASS	NA

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀IC₂₅ICp METHODTEST DATE/TIME: START 7/12/22 13:30END 7/19/22 14:05

DILUTIONS (%EFFLUENT)

	CONTROL	20%	40%	60%	80%	100%	MH + UV
% SURVIVAL FOR DAY: 1	100	100	100	100	100	100	100
2	100	100	100	100	100	97.5	100
3	100	100	100	100	100	97.5	100
4	100	100	100	100	100	97.5	100
5	100	100	100	100	100	95	100
6	100	100	100	100	100	92.5	100
7	100	100	100	100	100	92.5	100
MEAN 3 BROOD TOTAL:							
7 DAY MEAN DRY WEIGHT:	0.255	0.286	0.301	0.277	0.313	0.284	0.277
pH MAX/MIN:	8.0/7.8	8.1/7.9	8.2/8.0	8.3/8.2	8.3/8.2	8.2/8.1	7.9/7.6

MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 725 RECON WATER: 101MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 212 RECON WATER: 65MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.23 FINAL EFFLUENT: NAMEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) NWERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

ANALYST: Michael HendricksSIGNATURE: LABORATORY: GEI Consultants, Inc./Ecological DivisionDATE: 9/15/22COMMENTS: Due to shipping issues, the third shipment of samples were received out of temperature. The sample was not used for testing. This deviation from protocol was approved by the Colorado WQ Control Division.

Appendix B

Chain-of-custody forms and laboratory bench sheets from whole effluent toxicity tests

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE L100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

(GEI Use) Log Number NH722nd 4th -013-1

CLIENT/PROJECT <u>ERMR/NPDES 013</u>		TESTS REQUIRED				CHLORINE				
ADDRESS <u>27646 W. 5TH</u>		ACUTE		CHRONIC		Measured by: Client				
CITY <u>NUECLA</u> STATE <u>CO</u> ZIP <u>81424</u>		C	F	D	T	C	F	A	D	Lab ☒
PHONE # <u>970-864-1079</u>		E	A	A	R	E	A	T	A	
PROJ. MANAGER <u>C. JOHNSON</u> SAMPLER <u>J. CARVER</u>		I	H	H	O	R	H	A	H	
		O	A	I	T	O	A	E	I	
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected			TRC (mg/L)	Date/Time Measured	COMMENTS:	
<u>OUTFALL 013 EFFLUENT GRAB</u>		☒	<u>7/11/22</u>	<u>0756</u>		☒	<u><0.02</u>	<u>7/12/22 1030</u>		
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION								
CLIENT DROP OFF: ☐	CONDITION OF SAMPLE ON RECEIPT: <u>Good</u>									
COURIER:	CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐									
UPS ☒ FEDEX ☐ OTHER ☐										
TOTAL NUMBER OF CONTAINERS: <u>5</u>	TEMPERATURE (°C): <u>6.0</u>									
CONTAINERS <u>1-3</u>	TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐									
COMMENTS: <u>AT COLLECTION:</u>		LABORATORY RECEIVED BY: <u>[Signature]</u>								
<u>Phsu: 7.26 TEMP °C: 17.9 CONDUCTIVITY us/cm: 1458</u>		DATE/TIME: <u>7/11/2022 0842</u>								
		DATE/TIME: <u>7/12/22 1010</u>								

GEI Consultants, Inc./Ecological Division
4601 DTC BLVD., SUITE 1100
DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number NH822-613-1

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT <u>ERM/ NPDES 013</u> ADDRESS <u>27646 W. 5TH</u> CITY <u>NUCLA</u> STATE <u>CO</u> ZIP <u>81424</u> PHONE # <u>970-864-7316 ext. 1109</u> PROJ. MANAGER <u>C. JOHNSON</u> SAMPLER <u>J. CARVER</u>					TESTS REQUIRED ACUTE: ☐ CHRONIC: ☐ C E R I O F A D T C F A L D A P H N I O A A A R E A A P H N I D A A A T O R T A A P H N I				CHLORINE Measured by: Client ☐ Lab ☒		COMMENTS:
SAMPLE TYPE/SITE <u>OUTFALL 013 EFFLUENT GRAB</u> Composite ☐ Grab ☒ Date Collected <u>8/15/22</u> Time Collected <u>0816</u> TRC (mg/L) <u><0.02</u> Date/Time Measured <u>8/16/22 805</u>											
PROJECT INFORMATION CLIENT DROP OFF: ☐ COURIER: ☐ UPS ☐ FEDEX ☒ OTHER ☐		LABORATORY RECEIVING INFORMATION CONDITION OF SAMPLE ON RECEIPT: <u>Good</u> CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐		CLIENT RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>8/15/2022 0912</u>		LABORATORY RECEIVED BY: <u>[Signature]</u> DATE/TIME: <u>8/16/22 750</u>					
TOTAL NUMBER OF CONTAINERS: <u>2</u> GALLONS <u>1 + 2</u>		TEMPERATURE (°C): <u>2.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐		COMMENTS: <u>AT Collection</u> <u>Phsu: 7.35 Temp°C: 18.1 Conductivity µs/cm: 1,899</u>							

GEI Consultants, Inc./Ecological Division
 4601 DTC BLVD., SUITE L100
 DENVER, CO 80237
 Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number

NH 822-35013-3

BIOASSAY LABORATORY CHAIN-OF-CUSTODY

CLIENT/PROJECT ERM/R/NPDES 013 ADDRESS 27646 W. 5TH CITY NUCLA STATE CO ZIP 81424 PHONE # 970-864-1079 PROJ. MANAGER C. JOHNSON SAMPLER J. CARVER				TESTS REQUIRED ACUTE: ☐ F A T H N A ☐ D A P H N A CHRONIC: ☐ C E R I O ☐ F A T H A E ☐ A L G A E ☐ D A P H N I A				CHLORINE Measured by: <u>Lab</u> Client:		COMMENTS:
SAMPLE TYPE/SITE OUTFALL 013 EFFLUENT GRAB	Composite	Grab	Date Collected 8/18/22	Time Collected 0810	TRC (mg/L) <0.02	Date/Time Measured 8/19/22 1040				
PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION		CLIENT RELINQUISHED BY: <u>Jenna Carver</u> DATE/TIME: 8/18/2022 0824		LABORATORY RECEIVED BY: <u>[Signature]</u> DATE/TIME: 8/19/22 1005				
CLIENT DROP OFF: ☐ COURIER: ☒ FEDEX ☐ OTHER ☐		CONDITION OF SAMPLE ON RECEIPT: <u>Good</u> CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐		TEMPERATURE (°C): <u>0.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐		TOTAL NUMBER OF CONTAINERS: 2 GALLONS: 1 + 2				
COMMENTS: AT COLLECTION: Phsu: 7.20 TEMP °C: 17.0 CONDUCTIVITY us/cm: 1,815										

From: [Johnson, Chantell](#)
To: [Jacob Dyste - CDPHE](#)
Cc: [Gilbreath, Chris](#); [Crosby, Darlene](#)
Subject: RE: [EXTERNAL] Re: New Horizon CDPS CO-0000213 Q3 WET 14-day notification for Outfall 013 and ACR waiver request
Date: Monday, October 17, 2022 2:23:54 PM

Thanks, Jacob.

From: Jacob Dyste - CDPHE <jacob.dyste@state.co.us>
Sent: Monday, October 17, 2022 2:23 PM
To: Johnson, Chantell <cjohnson@tristategt.org>
Cc: Gilbreath, Chris <cgilbreath@tristategt.org>; Crosby, Darlene <dcrosby@tristategt.org>
Subject: [EXTERNAL] Re: New Horizon CDPS CO-0000213 Q3 WET 14-day notification for Outfall 013 and ACR waiver request

CAUTION: This email originated from outside of Tri-State. DO NOT click links or open attachments unless you recognize and/or trust the sender. Contact the IT Service Desk with questions or concerns.

Hi Chantell,

The Division will continue to approve the ACR waiver this quarter.

Jacob

--

Jacob Dyste
Enforcement Specialist

Phone: 720.583.4562
[4300 Cherry Creek Drive South, Denver, CO 80246](#)
jacob.dyste@state.co.us | www.colorado.gov/cdphe/wqcd

24-hr Environmental Release/Incident Report Line: 1.877.518.5608

On Mon, Oct 17, 2022 at 1:15 PM Johnson, Chantell <cjohnson@tristategt.org> wrote:

Jacob –

As approved on 6/8/2021, this email is the 14-day notification for the Q3 2022 chronic WET sampling on Outfall 013A at Elk Ridge's New Horizon Mine (CDPS Permit #CO-0000213), in accordance with Part I.D.1.b of the permit. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent of Elk Ridge Mining and Reclamation LLC (Elk Ridge).

New Horizon Mine conducts chronic WET testing for Outfall 013A in accordance with the CDPS permit.

The Q3 2022 WET lab report (received 10/7/2022 from GEI Consultants) found that the reproduction-based NOEC (40%) and IC₂₅ (65.1%) for *Ceriodaphnia dubia* were lower than the IWC (100%). *Ceriodaphnia* are the most sensitive species. We will be submitting the WET test results and Chains of Custody with the quarterly DMR.

New Horizon Mine has completed a TIE and TRE (finding the toxicant is TDS, calcium, alkalinity, and to a lesser degree iron and bicarbonate). We have already implemented controls for iron (pilot aeration and settling system), and are working on a design for TDS treatment/WET resolution, and will be providing updates to the Division in December as part of the WET compliance schedule (final compliance by 10/1/2023 for Quarters 1 and 4). The water sampled in Q3 was similar to the TIE/TRE water quality. Therefore, **we request a waiver from the automatic compliance schedule.**

Please confirm that the Division approves this ACR waiver request given the consistent water quality and ongoing work to resolve WET.

Let me know if you have any questions.

Thanks,

Chantell Johnson

Water and Remediation Manager

Tri-State Generation and Transmission Association, Inc.

Office 303-254-3185

Mobile 303-482-6219 (best number to reach me)

cjohnson@tristategt.org

www.tristate.coop



TRI-STATE

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

012
External Outfall

Discharge:

012-A
SR and Mine Drainage to Tuttle Draw

Report Dates & Status

Monitoring Period:

From 09/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

TSS & Fe limits will be waived & settleable solids limit applied for 10YR/24HR precip event - see pp 8-9 for requirements.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00400	pH	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	35.0 30DA AVG	<=	70.0 MX 7D AV	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	1000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
03582	Oil and grease	1 - Effluent Gross	0	--	Sample														77/77 - Contingent	GR - GRAB
					Permit Req.										<=	10.0 INST MAX	19 - mg/L			
					Value NODI											C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - INSTAN
					Permit Req.	<=	1.09 30DA AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample														01/07 - Weekly	VI - VISUAL
					Permit Req.				Req Mon INST MAX	9P - N=0;Y=1										
					Value NODI				C - No Discharge											

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2022-10-05 15:01 (Time Zone: -06:00)

Report Last Signed By

BARBARAWALZ1

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2022-10-25 08:55 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

012
External Outfall

Discharge:

012-Q
Quarterly Monitoring for 012A

Report Dates & Status

Monitoring Period:

From 07/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, #29, pg 43.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		
					Value NODI									C - No Discharge					
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		
					Value NODI									C - No Discharge		C - No Discharge			
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		
					Value NODI									C - No Discharge		C - No Discharge			

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2022-10-05 15:02 (Time Zone: -06:00)

Report Last Signed By

BARBARAWALZ1

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2022-10-25 08:55 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

013
External Outfall

Discharge:

013-A
SR & Mine Drainage to Tuttle Draw

Report Dates & Status

Monitoring Period:

From 09/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

TSS & Fe limits will be waived & settleable solids limit applied for 10YR/24HR precip event - see pg 7 for requirements.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI: --

Code	Parameter Name	Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
						Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00400	pH	1 - Effluent Gross	0	--	Sample						=	7.08			=	7.1	12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample								=	0.58			28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample								=	376.0	=	410.0	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample								=	12.6	=	25.2	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample								=	460.0	=	472.0	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	2618.0 30DA AVG	<=	4738.0 DAILY MX	28 - ug/L		01/30 - Monthly	GR - GRAB
					Value NODI															
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample								<	0.25	<	0.25	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	2.3 30DA AVG	<=	18.0 DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Value NODI															
03582	Oil and grease	1 - Effluent Gross	0	--	Sample														77/77 - Contingent	GR - GRAB
					Permit Req.										<=	10.0 INST MAX	19 - mg/L			
					Value NODI											9 - Conditional Monitoring - Not Required This Period				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	1.251	=	1.321	03 - MGD								0	01/01 - Daily	IN - INSTAN
					Permit Req.	<=	1.44 30DA AVG		Req Mon DAILY MX	03 - MGD									01/30 - Monthly	IN - INSTAN
					Value NODI															
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample			=	0.0	AB - abst=0;prst=1								0	02/30 - Twice Per Month	VI - VISUAL
					Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1									02/30 - Twice Per Month	VI - VISUAL
					Value NODI															

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User: dcrosby@tristategt.org
Name: Darlene Crosby
E-Mail: dcrosby@tristategt.org
Date/Time: 2022-10-17 14:14 (Time Zone: -06:00)

Report Last Signed By

User: BARBARAWALZ1
Name: Barbara Walz
E-Mail: bwalz@tristategt.org
Date/Time: 2022-10-25 08:55 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

013
External Outfall

Discharge:

013-Q
Quarterly Monitoring for 013A

Report Dates & Status

Monitoring Period:

From 07/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly Monitoring - see Appendix B, #29, pg 43

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample							<	20.0	<	20.0	19 - mg/L	0	02/30 - Twice Per Month	GR - GRAB
					Permit Req.							<=	35.0 30DA AVG	<=	70.0 MX 7D AV	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI														
50092	Mercury, total low level	1 - Effluent Gross	0	--	Sample							=	0.00182			28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG			28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI														
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample							=	1370.0	=	1370.0	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.								Req Mon 30DA AVG		Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2022-10-18 07:25 (Time Zone: -06:00)

Report Last Signed By

BARBARAWALZ1

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2022-10-25 08:55 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

013
External Outfall

Discharge:

013-X
CHRONIC WET TESTING FOR 013A

Report Dates & Status

Monitoring Period:

From 07/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

See Part I.D.1 of permit for details of test procedure. Report NOEC using test code "S". Report IC25 using test code "P". Report highest number between "P" and "S" at "T" for each parameter. IWC=100%.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	P - See Comments	3	--	Sample					=	65.1					2G - tox chronic	0	01/90 - Quarterly	G3 - GRAB-3
					Permit Req.						Req Mon SINGSAMP					2G - tox chronic		01/90 - Quarterly	G3 - GRAB-3
					Value NODI														
TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	S - See Comments	3	--	Sample					=	40.0					2G - tox chronic	0	01/90 - Quarterly	G3 - GRAB-3
					Permit Req.						Req Mon MN VALUE					2G - tox chronic		01/90 - Quarterly	G3 - GRAB-3
					Value NODI														
X TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	T - See Comments	3	--	Sample					=	65.1					2G - tox chronic	1	01/90 - Quarterly	G3 - GRAB-3
					Permit Req.					>=	100.0 MN VALUE					2G - tox chronic		01/90 - Quarterly	G3 - GRAB-3
					Value NODI														
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	P - See Comments	3	--	Sample					>	100.0					2G - tox chronic	0	01/90 - Quarterly	G3 - GRAB-3
					Permit Req.						Req Mon SINGSAMP					2G - tox chronic		01/90 - Quarterly	G3 - GRAB-3
					Value NODI														
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	S - See Comments	3	--	Sample					=	100.0					2G - tox chronic	0	01/90 - Quarterly	G3 - GRAB-3
					Permit Req.						Req Mon MN VALUE					2G - tox chronic		01/90 - Quarterly	G3 - GRAB-3
					Value NODI														
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	T - See Comments	3	--	Sample					>	100.0					2G - tox chronic	0	01/90 - Quarterly	G3 - GRAB-3
					Permit Req.					>=	100.0 MN VALUE					2G - tox chronic		01/90 - Quarterly	G3 - GRAB-3
					Value NODI														

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	T - See Comments	Quality or Concentration Sample Value 1	Soft	The provided sample value is outside the permit limit. Please verify that the value you have provided is correct.	Yes

Comments

See attached.

Attachments

Name	Type	Size
NH2_CDPS_CO0000213_Outfall013_WETresults_September_2022_COC.pdf	pdf	947163.0
210526_email_UV_treatment_Re_WET_Summary_request_for_CDPS_CO-0000213.pdf	pdf	265977.0
RE_Re_New_Horizon_CDPS_CO-0000213_Q3_WET_14-day_notification_for_Outfall_013_and_ACR_waiver_request.pdf	pdf	188474.0
221018_New_Horizon_September_2022_DMR_Comment_Outfall_013X_Walz_to_CDPHE_signed.pdf	pdf	186806.0
New_Horizon_CDPS_CO-0000213_Q3_WET_14-day_notification_for_Outfall_013_and_ACR_waiver_request.pdf	pdf	152295.0

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:	Darlene Crosby
E-Mail:	dcrosby@tristategt.org
Date/Time:	2022-10-18 09:03 (Time Zone: -06:00)
<i>Report Last Signed By</i>	
User:	BARBARAWALZ1
Name:	Barbara Walz
E-Mail:	bwalz@tristategt.org
Date/Time:	2022-10-25 08:55 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

016
External Outfall

Discharge:

016-A
SR & Mine Drainage Tributary to Tuttle Draw

Report Dates & Status

Monitoring Period:

From 09/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

TSS & Fe limits will be waived & settleable solids limits applied for 10YR/24HR precip event - see pp 8-9 for requirements.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration							# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units			
00400	pH	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU			
					Value NODI							C - No Discharge				C - No Discharge				
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	35.0 5 DA AVG	<=	70.0 MX 7D AV	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	1000.0 30DA AVG	<=	2000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - INSTAN
					Permit Req.	<=	3.123 30DA AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2022-10-05 15:15 (Time Zone: -06:00)

Report Last Signed By

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2022-10-25 08:55 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Permitted Feature:

016
External Outfall

Discharge:

016-Q
Quarterly Monitoring for 016A

Report Dates & Status

Monitoring Period:

From 07/01/22 to 09/30/22

DMR Due Date:

10/28/22

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, #29, pg 43.

Principal Executive Officer

First Name:

Barbara

Last Name:

Walz

Title:

SVP, Policy and Compliance, CCO

Telephone:

303-452-6111

No Data Indicator (NODI)

Form NODI:

--

Parameter		Monitoring Location	Season #	Param. NODI		Quantity or Loading					Quality or Concentration						# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		
					Value NODI									C - No Discharge					
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		
					Value NODI									C - No Discharge		C - No Discharge			
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample													01/90 - Quarterly	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		
					Value NODI									C - No Discharge		C - No Discharge			

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2022-10-05 15:16 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2022-10-25 08:55 (Time Zone: -06:00)



October 18, 2022

Water Quality Control Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530

RE: New Horizon Mine CDPS Permit #CO-0000213
September 2022 DMR Submittal Comments Outfall 013X

Dear CDPHE Representative:

Tri-State recently notified WQCD of the results of the Third Quarter 2022 WET testing for New Horizon Mine (CDPS Permit #CO-0000213). Tri-State requested a waiver from the WET automatic compliance responses, based on ongoing TIE/TRE studies for this Outfall and demonstration that the water quality has been consistent. WQCD approved this waiver via email from Jacob Dyste on October 17, 2022 (enclosed).

As documented in the enclosed email from Jacob Dyste on May 26, 2021, the Division approved the use of UV treatment for the fathead minnows (*Pimephales promelas*) consistent with the EPA Chronic WET Manual.

If you have any questions about these comments, please contact Chantell Johnson at 303-254-3185 or Darlene Crosby at 303-254-3055.

Sincerely,

DocuSigned by:

A handwritten signature in black ink that reads "Barbara Walz".

A5D5C24494CD4A7...

Barbara A. Walz
Senior Vice President
Policy and Compliance
Chief Compliance Officer

BAW:DC:der

Enclosures

cc: Chantell Johnson, via email
Darlene Crosby, via email
File: G474-11.3(10)a-9a

From: [Johnson, Chantell](#)
To: [Jacob Dyste \(jacob.dyste@state.co.us\)](mailto:jacob.dyste@state.co.us)
Cc: [Gilbreath, Chris](#); [Crosby, Darlene](#)
Subject: New Horizon CDPS CO-0000213 Q3 WET 14-day notification for Outfall 013 and ACR waiver request
Date: Monday, October 17, 2022 1:15:13 PM

Jacob –

As approved on 6/8/2021, this email is the 14-day notification for the Q3 2022 chronic WET sampling on Outfall 013A at Elk Ridge's New Horizon Mine (CDPS Permit #CO-0000213), in accordance with Part I.D.1.b of the permit. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent of Elk Ridge Mining and Reclamation LLC (Elk Ridge).

New Horizon Mine conducts chronic WET testing for Outfall 013A in accordance with the CDPS permit.

The Q3 2022 WET lab report (received 10/7/2022 from GEI Consultants) found that the reproduction-based NOEC (40%) and IC₂₅ (65.1%) for *Ceriodaphnia dubia* were lower than the IWC (100%). *Ceriodaphnia* are the most sensitive species. We will be submitting the WET test results and Chains of Custody with the quarterly DMR.

New Horizon Mine has completed a TIE and TRE (finding the toxicant is TDS, calcium, alkalinity, and to a lesser degree iron and bicarbonate). We have already implemented controls for iron (pilot aeration and settling system), and are working on a design for TDS treatment/WET resolution, and will be providing updates to the Division in December as part of the WET compliance schedule (final compliance by 10/1/2023 for Quarters 1 and 4). The water sampled in Q3 was similar to the TIE/TRE water quality. Therefore, **we request a waiver from the automatic compliance schedule.**

Please confirm that the Division approves this ACR waiver request given the consistent water quality and ongoing work to resolve WET.

Let me know if you have any questions.

Thanks,

Chantell Johnson

Water and Remediation Manager

Tri-State Generation and Transmission Association, Inc.

Office 303-254-3185

Mobile 303-482-6219 (best number to reach me)

cjohnson@tristategt.org

www.tristate.coop



From: [Jacob Dyste - CDPHE](#)
To: [Johnson, Chantell](#)
Cc: [Love, Natalie](#); [Romero, Ashley](#)
Subject: [EXTERNAL] Re: WET Summary request for CDPS CO-0000213
Date: Wednesday, May 26, 2021 12:20:23 PM

CAUTION: This email originated from outside of Tri-State. DO NOT click links or open attachments unless you recognize and/or trust the sender. Contact the IT Service Desk with questions or concerns.

Hi all,

The Division will approve the use of UV treatment for WET testing consistent with the EPA Chronic WET Manual. Please continue to note the use of UV treatment in the DMR comment box or attached letter.

The Division is also okay with the submission of the test with high PMSD for Q2.

Thank you,

Jacob

--

IMPORTANT COVID-19 INFORMATION:

- COVID-19 Frequently Asked Questions (including instructions for necessary changes to DMR reporting) can be found [HERE](#).
- The Enforcement Unit is operating remotely. During regular business hours, please contact me by email. Voicemails will be returned within one business day.

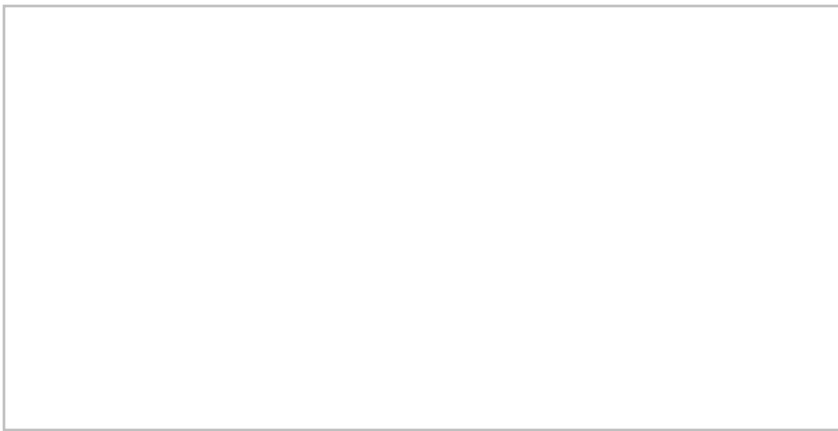
--

Jacob Dyste
Enforcement Specialist



Remote: 720.583.4562 (*Preferred*)
Office: 303.692.3290
[4300 Cherry Creek Drive South, Denver, CO 80246](#)
jacob.dyste@state.co.us | www.colorado.gov/cdphe/wqcd

24-hr Environmental Release/Incident Report Line: [1.877.518.5608](tel:18775185608)



On Mon, May 24, 2021 at 2:58 PM Johnson, Chantell <cjohnson@tristategt.org> wrote:

Jacob –

Here is the information from Natalie Love, GEI Consultants on the New Horizon CDPS Permit #CO-0000213 Outfall 013 WET testing for Q2, at the approval of allowable method per EPA chronic WET manual.

Please let us know if you can provide this approval, or if you have any questions.

Thanks,

Chantell Johnson

Tri-State Generation and Transmission Association, Inc.

Environmental Services

Direct 303-254-3185

Mobile 303-482-6219 (best number to reach me, given work-from-home directives)

cjohnson@tristategt.org

www.tristate.coop

As we discussed on the call, the Q2 WET tests had some pathogen interference issues. The pathogen interference has been identified by high percent minimum significant difference

(PMSD), high coefficient of variation (CV) in some effluent concentrations, and effects on survival which do not translate to effects on growth. In anticipation of this based on previous test results, we completed two sets of concurrent Q2 chronic *P. promelas* tests, 1) with unmodified effluent per the permit, and 2) with the effluent treated with ultraviolet (UV) light for 5 minutes daily prior to dilutions. According to section 11.3.4.6.1. of the EPA Chronic WET manual (EPA-821-R-02-013) UV treatment is an allowable method of effluent modification to control pathogen interference.

We are requesting two things, 1) to submit the standard *P. promelas* test with the high PMSD for the Q2 compliance test with a note that the PMSD range does not impact test validity as the UV test verified pathogen interference, and 2) conduct all *P. promelas* compliance tests going forward using UV treatment to control pathogen interference. I have attached figures summarizing the results. Please let us know if you have any questions.

Thanks!

GEI

NATALIE LOVE

Laboratory Director

303.264.1070 cell: 720.841.8048

4601 DTC Boulevard, Suite 900, Denver, CO 80237

