



TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

HEADQUARTERS: P.O. BOX 33695 DENVER, COLORADO 80233-0695 303-452-6111

July 27, 2020

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: June 2020 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 June 2020. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent to Elk Ridge Mining and Reclamation. The enclosed June 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:

Daniel Casiraro

B70D69F114324DE...

Daniel J. Casiraro
Senior Manager
Environmental Services

DJC:DC:

Enclosures

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

AN EQUAL OPPORTUNITY / AFFIRMATIVE ACTION EMPLOYER

A Touchstone Energy® Cooperative 

CRAIG STATION
P.O. BOX 1307
CRAIG, CO 81626-1307
970-824-4411

ESCALANTE STATION
P.O. BOX 577
PREWITT, NM 87045
505-972-5200

NUCLA STATION
P.O. BOX 698
NUCLA, CO 81424-0698
970-864-7316

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 06/01/20 to 06/30/20

DMR Due Date:

07/28/20

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:

--

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:

2020-06-29 10:49 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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 04/01/20 to 06/30/20

DMR Due Date:

07/28/20

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

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Edit Check Errors

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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:

2020-06-29 10:49 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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-S
Semi-Annual Monitoring for 012A

Report Dates & Status

Monitoring Period:

From 01/01/20 to 06/30/20

DMR Due Date:

07/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

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Last Name:

Walz

Title:

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Comments

Attachments

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User:

dcrosby@tristategt.org

Name:

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E-Mail:

dcrosby@tristategt.org

Date/Time:

2020-06-29 10:55 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (Time Zone: -06:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permitted Feature:

013
External Outfall

Permittee:

Elk Ridge Mining and Reclamation LLC

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Discharge:

013-A
SR & Mine Drainage to Tuttle Draw

Facility:

NEW HORIZON MINE

Facility Location:

27646 W 5 AVE
NUCLA, CO 81424

Report Dates & Status

Monitoring Period:

From 06/01/20 to 06/30/20

DMR Due Date:

07/28/20

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						=	7.3			=	7.4	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								=	1.0			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								=	386.0	=	482.0	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								=	30.0	=	33.0	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								=	515.0	=	580.0	28 - ug/L	0	01/30 - Monthly	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								=	2.3	=	2.5	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												19 - mg/L		77/77 - Contingent	GR - GRAB
					Permit Req.										<=	10.0 INST MAX				
					Value NODI											9 - Conditional Monitoring - Not Required This Period				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.228	=	0.316	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

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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:

2020-07-08 15:51 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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 04/01/20 to 06/30/20

DMR Due Date:

07/28/20

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:

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Submission Note

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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:

2020-07-08 16:13 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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-S
Semi-Annual Monitoring for 013A

Report Dates & Status

Monitoring Period:

From 01/01/20 to 06/30/20

DMR Due Date:

07/28/20

Status:

NetDMR Validated

Considerations for Form Completion

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:

--

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:

2020-07-16 08:31 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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 04/01/20 to 06/30/20

DMR Due Date:

07/28/20

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:

--

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

Name	Type	Size
NH2_CDPS_CO0000213_Outfall013_WETresults_June2020_COC.pdf	pdf	574251.0

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2020-07-16 08:33 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz



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 06/01/20 to 06/30/20

DMR Due Date:

07/28/20

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

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Form NODI:

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No errors.

Comments

Attachments

No attachments.

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Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2020-06-29 10:59 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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 04/01/20 to 06/30/20

DMR Due Date:

07/28/20

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:

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No Data Indicator (NODI)

Form NODI:

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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		
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No errors.

Comments

Attachments

No attachments.

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Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2020-06-29 11:02 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (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-S
Semi-Annual Monitoring for 016A

Report Dates & Status

Monitoring Period:

From 01/01/20 to 06/30/20

DMR Due Date:

07/28/20

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

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Last Name:

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Title:

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Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

E-Mail:

dcrosby@tristategt.org

Date/Time:

2020-06-29 11:06 (Time Zone: -06:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2020-07-27 08:52 (Time Zone: -06:00)

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

 PERMITEE NAME: Tri State, NH2 Mine

 CDPS NO: CO-0000213

 OUTFALL: 013

 TYPE TEST: ROUTINE ☒

ACCELERATED

 TEST SPECIES: Ceriodaphnia dubia
Test Results:
Lethality
Growth
Reproduction

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

STAT. METHOD USED: STATISTICAL DIFF.:

NOEC, LC₅₀
IC₂₅
ICp METHOD

TEST DATE/TIME: START

5/12/20 11:40

END

5/19/20 11:10
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	90
6	100	100	100	100	100	90
7	100	100	100	100	100	90
MEAN 3 BROOD TOTAL:	31.0	34.8	32.7	31.5	29.3	26.1
7 DAY MEAN DRY WEIGHT:						
pH MAX/MIN:	8.3/8.2	8.4/8.3	8.5/8.4	8.6/8.5	8.6/8.5	8.4/8.4

 MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 740 RECON WATER: 96

 MEAN ALKALINITY (mg/L) RECEIVING WATER: NA EFFLUENT: 202 RECON WATER: 68

 MEAN T. AMMONIA as N (mg/L) INITIAL EFFLUENT: 0.24 FINAL EFFLUENT: NA

 MEAN T. RESIDUAL CHLORINE (mg/L) 100%: <0.02 RECEIVING WATER USED FOR DILUTIONS? (Y/N) N

 WERE ALL TEST CONDITIONS IN CONFORMANCE WITH DIVISION GUIDELINES? (Y/N) Y

IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

 ANALYST: Michael Hendricks

SIGNATURE:

 LABORATORY: GEI Consultants, Inc./Ecological Division

DATE:

6/3/2020

COMMENTS:

COLORADO – CDPS WET TEST REPORT FORM – CHRONIC

 PERMITEE NAME: Tri State, NH2 Mine

 CDPS NO: CO-0000213

 OUTFALL: 013

 TYPE TEST: ROUTINE ☒

ACCELERATED

 TEST 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, LC₅₀
IC₂₅
ICp METHOD

TEST DATE/TIME: START

5/12/20 13:00

END

5/19/20 13:00

DILUTIONS (%EFFLUENT)

	CONTROL	20%	40%	60%	80%	100%
% SURVIVAL FOR DAY: 1	100	97.5	95	100	100	100
2	100	97.5	92.5	100	100	100
3	100	97.5	92.5	100	100	100
4	100	95	92.5	100	97.5	100
5	100	90	92.5	97.5	95	100
6	100	90	92.5	97.5	95	100
7	100	90	92.5	97.5	95	100
MEAN 3 BROOD TOTAL:						
7 DAY MEAN DRY WEIGHT:	0.379	0.345	0.380	0.373	0.416	0.386
pH MAX/MIN:	8.0/7.8	8.1/8.0	8.3/8.2	8.4/8.3	8.4/8.3	8.4/8.2

 MEAN HARDNESS (mg/L) RECEIVING WATER: NA EFFLUENT: 740 RECON WATER: 96

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IF NO, LIST DEVIATIONS FROM TEST SPECIFICATIONS:

 ANALYST: Michael Hendricks

 SIGNATURE: 

 LABORATORY: GEI Consultants, Inc./Ecological Division

 DATE: 6/3/2020

COMMENTS:

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 NH 520 - 1

CLIENT/PROJECT <u>ERMR/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 <table border="1"> <tr> <th colspan="4">ACUTE</th> <th colspan="4">CHRONIC</th> </tr> <tr> <td>C E R I O</td> <td>F A T H E A D</td> <td>D A P H N I A</td> <td>T R O U T</td> <td>C E R I O</td> <td>F A T H E A D</td> <td>A L G A E</td> <td>D A P H N I A</td> </tr> </table>				ACUTE				CHRONIC				C E R I O	F A T H E A D	D A P H N I A	T R O U T	C E R I O	F A T H E A D	A L G A E	D A P H N I A	CHLORINE Measured by: Client ☐ Lab ☒		
ACUTE				CHRONIC																							
C E R I O	F A T H E A D	D A P H N I A	T R O U T	C E R I O	F A T H E A D	A L G A E	D A P H N I A																				
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected						TRC (mg/L)	Date/Time Measured	COMMENTS:															
<u>OUTFALL 013 EFFLUENT GRAB</u>		☒	<u>5-11-20</u>	<u>8:58^{AM}</u> <u>0958</u>				☒	☒	<u>20.02</u>	<u>5/12/20 835</u>																

PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION		CLIENT	
CLIENT DROP OFF: ☐ COURIER: UPS ☐ FEDEX ☒ OTHER ☐		CONDITION OF SAMPLE ON RECEIPT: <u>good</u> CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐		RELINQUISHED BY: <u>Jason Carr</u> DATE/TIME: <u>5/11/2020 0957</u>	
TOTAL NUMBER OF CONTAINERS: <u>3</u> <u>3 - 1 GAL CUBES</u>		TEMPERATURE (°C): <u>6.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐		LABORATORY RECEIVED BY: <u>[Signature]</u> DATE/TIME: <u>5/12/20 730</u>	
COMMENTS: <u>AT COLLECTION,</u> <u>Phsu: 6.55 TEMP °C: 14.0 COND. NS/CM: 1,398</u>					

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DENVER, CO 80237
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BIOASSAY LABORATORY CHAIN-OF-CUSTODY

(GEI Use) Log Number NA520-2

CLIENT/PROJECT <u>ERMR/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</u> EXT. <u>1109</u> PROJ. MANAGER <u>C. JOHNSON</u> SAMPLER <u>J. CARVER</u>					TESTS REQUIRED								CHLORINE Measured by: Client ☐ Lab ☒		
					ACUTE				CHRONIC						
					C E R I O	F A T H E A D	D A P H N I A	T R O U T	C E R I O	F A T H E A D	A L G A E	D A P H N I A			
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected									TRC (mg/L)	Date/Time Measured	COMMENTS:
<u>OUTFALL 013 EFFLUENT GRAB</u>		☒	<u>5-13-20</u>	<u>0825</u>					☒	☒			<u>60.02</u>	<u>5/14/20 845</u>	

PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION		CLIENT	
CLIENT DROP OFF: ☐ COURIER: UPS ☐ FEDEX ☒ OTHER ☐		CONDITION OF SAMPLE ON RECEIPT: <u>good</u> CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐		RELINQUISHED BY: <u>[Signature]</u> DATE/TIME: <u>5/13/2020 0852</u>	
TOTAL NUMBER OF CONTAINERS: <u>2</u> <u>2 - 1 GALLON CUBES</u>		TEMPERATURE (°C): <u>6.0</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐		LABORATORY RECEIVED BY: <u>[Signature]</u>	
COMMENTS: <u>AT COLLECTION:</u> <u>PHSU: 7.22 TEMP °C: 13.1 COND. MS/CM: 1,363</u>				DATE/TIME: <u>5/14/20</u> <u>830</u>	

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DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

(GEI Use) Log Number NH520-3

Updated 2019

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DENVER, CO 80237
Main: (303) 662-0100 Lab: (303) 264-1120

THURSDAY 2 OF 2
BIOASSAY LABORATORY CHAIN-OF-CUSTODY

(GEI Use) Log Number NH520-3

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								CHLORINE Measured by: Client ☐ Lab ☒		
					ACUTE				CHRONIC						
					C E R I O	F A T H E A D	D A P H N I A	T R O U T	C E R I O	F A T H E A D	A L G A E	D A P H N I A			
SAMPLE TYPE/SITE	Composite	Grab	Date Collected	Time Collected									TRC (mg/L)	Date/Time Measured	COMMENTS:
<u>OUTFALL 013 EFFLUENT</u>		☒	<u>5-14-20</u>	<u>0813</u>					☒	☒			<u>0.03</u>	<u>5/15/20 845</u>	
<u>GRAB</u>															

PROJECT INFORMATION		LABORATORY RECEIVING INFORMATION		CLIENT RELINQUISHED BY: <u>Jarvis Carr</u> DATE/TIME: <u>5/14/2020 0857</u>	
CLIENT DROP OFF: ☐ COURIER: UPS ☐ FEDEX ☒ OTHER ☐		CONDITION OF SAMPLE ON RECEIPT: <u>Good</u> CUSTODY SEAL INTACT?: YES ☒ NO ☐ N/A ☐			
TOTAL NUMBER OF CONTAINERS: <u>3</u> <u>3-1 GALLON CUBES</u>		TEMPERATURE (°C): <u>6.0°</u> TEMPERATURE IN RANGE (0-6°C): YES ☒ NO ☐ IF NOT IN RANGE, SAMPLED SAME DAY, TEMP OK?: YES ☐ NO ☐		LABORATORY RECEIVED BY: <u>Katie Greco</u> DATE/TIME: <u>5/15/20 730</u>	
COMMENTS: <u>AT COLLECTION:</u> <u>PHSU: 6.48 TEMP °C: 13.1 COND. µS/cm: 1,407</u>					