



TRI-STATE GENERATION AND TRANSMISSION ASSOCIATION, INC.

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

January 18, 2018

VIA Electronic Mail

Mr. Brock Bowles
Division of Reclamation, Mining, & Safety
Coal Program Support Staff
1313 Sherman Street, RM 215
Denver, Colorado 80203

RE: December 2017 Discharge Monitoring Report Submittal
CDPS Permit #CO-0000213
Elk Ridge Mining and Reclamation, New Horizon Mine
DRMS Mine Permit #C-1981-008

Dear Mr. Bowles:

Enclosed are the Discharge Monitoring Reports (DMR) for the Elk Ridge Mining and Reclamation, LLC, New Horizon Mine CDPS Permit No. CO-0000213 for December 2017. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent to Elk Ridge Mining and Reclamation. The enclosed December 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,

Daniel J. Casiraro
Senior Manager
Environmental Services

DJC:DC:der

Enclosures

cc: Darlene Crosby (via email)
Tom Fry (via email)
Chantell Johnson (via email)

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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

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 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 30DA AVG	<=	70 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.								<=	3000 30DA AVG	<=	6000 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 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:

2018-01-18 11:32 (Time Zone: -07:00)

Report Last Signed By

User:

BARBARAWALZ1

Name:

Barbara Walz

E-Mail:

bwalz@tristategt.org

Date/Time:

2018-01-19 12:40 (Time Zone: -07:00)

DMR Copy of Record

Permit

Permit #:

CO0000213

Major:

No

Permittee:

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Permittee Address:

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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 10/01/17 to 12/31/17

DMR Due Date:

01/28/18

Status:

NetDMR Validated

Considerations for Form Completion

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

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External Outfall

Discharge:

012-S
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From 07/01/17 to 12/31/17

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01/28/18

Status:

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Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units		
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		
					Value NODI									C - No Discharge		C - No Discharge			
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon DAILY MX	28 - ug/L		
					Value NODI											C - No Discharge			
50092	Mercury, total low level	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon DAILY MX	28 - ug/L		
					Value NODI											C - No Discharge			
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample													02/YR - Twice Per Year	GR - GRAB
					Permit Req.											Req Mon DAILY MX	19 - mg/L		
					Value NODI											C - No Discharge			

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dcrosby@tristategt.org

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Facility Location:

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Permitted Feature:

013
External Outfall

Discharge:

013-A
SR & Mine Drainage to Tuttle Draw

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From 12/01/17 to 12/31/17

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01/28/18

Status:

NetDMR Validated

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

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SVP, Policy and Compliance, CCO

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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						=	6.75			=	7.9	12 - SU		02/30 - Twice Per Month	GR - GRAB
					Permit Req.						>=	6.5 MINIMUM			<=	9 MAXIMUM	12 - SU	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample								=	2.4			28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample								=	2005	=	2040	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	3000 30DA AVG	<=	6000 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample								=	10	=	10	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample								=	1075	=	1100	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	4120 30DA AVG	<=	4738 DAILY MX	28 - ug/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample								<	0.3	<	0.3	28 - ug/L		02/30 - Twice Per Month	GR - GRAB
					Permit Req.								<=	26 30DA AVG	<=	26 DAILY MX	28 - ug/L	0	02/30 - Twice Per Month	GR - GRAB
					Value NODI															
03582	Oil and grease	1 - Effluent Gross	0	--	Sample															
					Permit Req.										<=	10 INST MAX	19 - mg/L		77/77 - Contingent	GR - GRAB
					Value NODI											9 - Conditional Monitoring - Not Required This Period				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample	=	0.73	=	1.28	03 - MGD									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	AB - abst=0;prst=1									02/30 - Twice Per Month	VI - VISUAL
					Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1								0	02/30 - Twice Per Month	VI - VISUAL
					Value NODI															

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Comments

Attachments

No attachments.

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Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

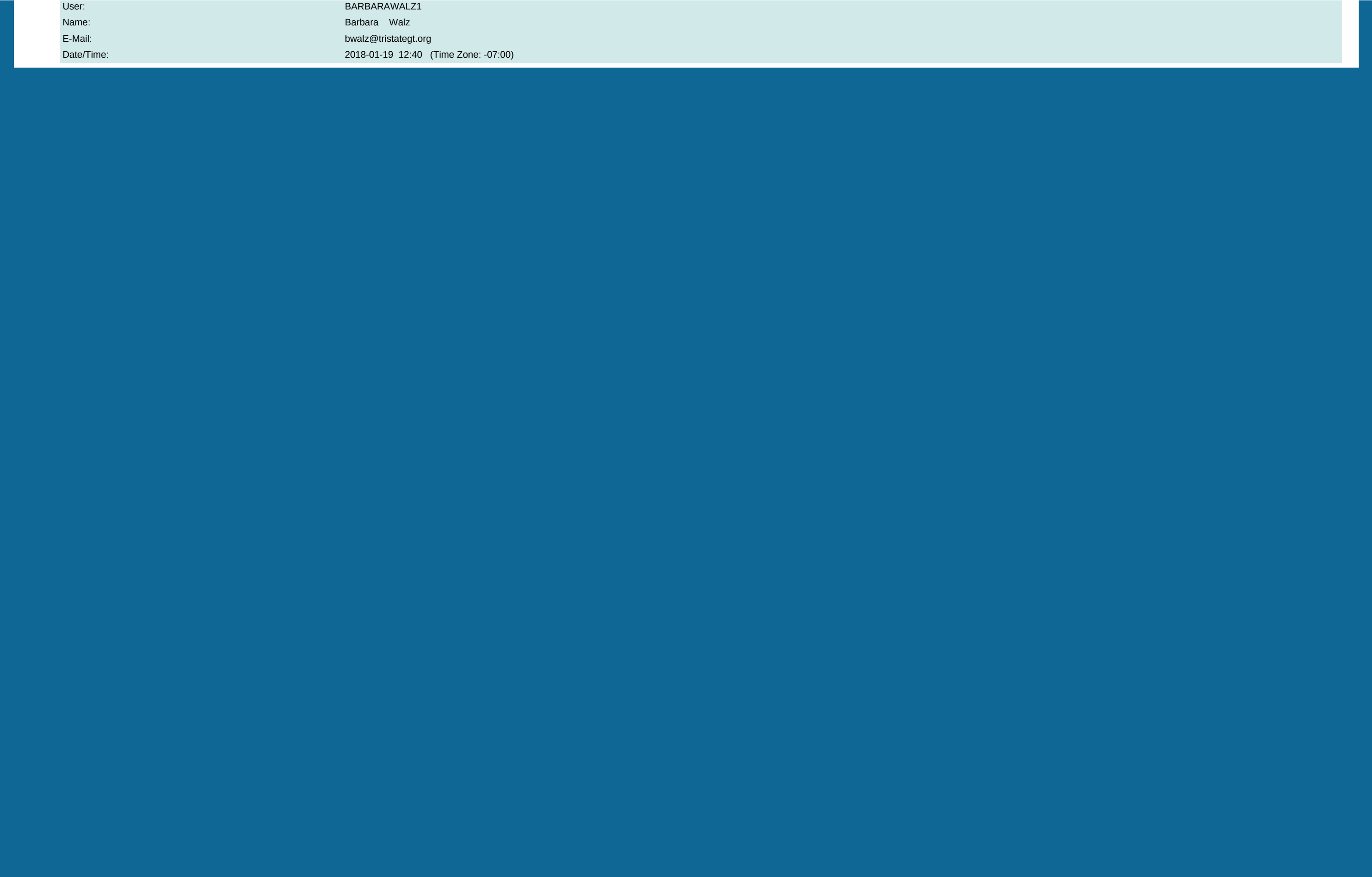
E-Mail:

dcrosby@tristategt.org

Date/Time:

2018-01-18 11:32 (Time Zone: -07:00)

Report Last Signed By



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 10/01/17 to 12/31/17

DMR Due Date:

01/28/18

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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Elk Ridge Mining and Reclamation LLC

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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 07/01/17 to 12/31/17

DMR Due Date:

01/28/18

Status:

NetDMR Validated

Considerations for Form Completion

Principal Executive Officer

First Name:

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Attachments

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Date/Time:

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Name:

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E-Mail:

bwalz@tristategt.org

Date/Time:

2018-01-19 12:40 (Time Zone: -07:00)

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 10/01/17 to 12/31/17

DMR Due Date:

01/28/18

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

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Form NODI:

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Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
NH2_CDPS_CO0000213_Outfall013_WETresults_December2017_COC.pdf	pdf	1947807

Report Last Saved By

Elk Ridge Mining and Reclamation LLC

User:

dcrosby@tristategt.org

Name:

Darlene Crosby

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Permit #:

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Major:

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Permittee:

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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 12/01/17 to 12/31/17

DMR Due Date:

01/28/18

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.

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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 10/01/17 to 12/31/17

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01/28/18

Status:

NetDMR Validated

Considerations for Form Completion

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External Outfall

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016-S
Semi-Annual Monitoring for 016A

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WET TEST REPORT FORM – CHRONIC

Permittee: Elk Ridge Mining and Reclamation Outfall: 013

Permit No.: CO-0000213

Test Type: Routine ☒ Accelerated ☐

Test Species: *Ceriodaphnia dubia* IWC: 100%

Test Start Time	Test Start Date	Test End Time	Test End Date
1220	10-07-2017	1310	10-13-2017

Test Results	Lethality	Reproduction
NOEC	100%	100%
	PASS	PASS
IC ₂₅	>100%	>100%
	PASS	PASS

Dilution(s) - % Effluent

Measurements	Control (0%)	20%	40%	60%	80%	100%
% Survival for day 1	100	100	100	100	100	100
% Survival for day 2	100	100	90	100	100	100
% Survival for day 3	100	100	90	100	100	100
% Survival for day 4	100	100	90	100	100	90
% Survival for day 5	100	100	90	100	100	90
% Survival for day 6	100	100	90	100	100	90
Mean 3 Brood Total	29.9	30.3	25.1	27.2	26.2	23.4

Hardness (mg/L) – Receiving Water: N/A Effluent: 1254/1149/1490 Recon Water: 94
Alkalinity (mg/L) – Receiving Water: N/A Effluent: 408/357/338 Recon Water: 58
Chlorine (mg/L) – Effluent: <0.01 pH (initial/final) – Control: 8.0/7.9 100%: 6.6/8.2
Total Ammonia as NH₃ (mg/L) - Effluent: 3.96/3.45/1.93

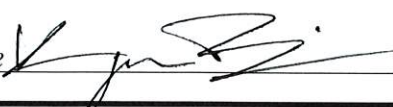
Were all Test Conditions in Conformance with Division Guidelines? YES ☒ NO ☐

If **NO**, list deviations from test specifications:

Laboratory: SeaCrest Group

Comments:

Analyst's Name: Madison Reese, and Tessa Hunt-Woodland

Signature 

Date 10-25-17

WET TEST REPORT FORM – CHRONIC

Permittee: Elk Ridge Mining and Reclamation

Outfall: 013

Permit No.: CO-0000213

Test Type: Routine ☒ Accelerated ☐

Test Species: Fathead minnow

IWC: 100%

Test Start Time	Test Start Date	Test End Time	Test End Date
1305	10-07-2017	1323	10-14-2017

Test Results	Lethality	Growth
NOEC	100%	100%
	PASS	PASS
IC ₂₅	>100%	>100%
	PASS	PASS

Dilution(s) - % Effluent

Measurements	Control (0%)	20%	40%	60%	80%	100%
% Survival for day 1	100	100	100	100	100	100
% Survival for day 2	100	100	100	100	98	100
% Survival for day 3	100	100	100	100	95	100
% Survival for day 4	100	100	100	100	93	100
% Survival for day 5	100	100	100	100	90	100
% Survival for day 6	100	100	100	98	90	98
% Survival for day 7	100	100	100	95	90	98
Mean Dry Wt. (mg)	0.474	0.500	0.536	0.550	0.581	0.681

Hardness (mg/L) – Receiving Water: N/A Effluent: 1254/1149/1490 Recon Water: 93

Alkalinity (mg/L) – Receiving Water: N/A Effluent: 408/357/338 Recon Water: 60

Chlorine (mg/L) – Effluent: <0.01 pH (initial/final) – Control: 8.0/7.6 100%: 6.7/7.9

Total Ammonia as NH₃ (mg/L) – Effluent: 3.96/3.45/1.93

Were all Test Conditions in Conformance with Division Guidelines? YES ☒ NO ☐

If **NO**, list deviations from test specifications:

Laboratory: SeaCrest Group

Comments:

Analyst's Name: Nicole Denkinger and Dan Hillenburg

Signature

Date

10-25-17

CHAIN OF CUSTODY

500 S. Arthur Ave.

Aville, CO 80027
Fax (303) 661.9325

Client/Project Name:	ELK REDGE MNR		
P. O./Project Number:	New Horizon MENT		
Contact:	T Fry		
Address:	27646 W 5TH Ave Nunda Co 81424		
Phone #	970 864 1073	E-Mail:	TFry@TRESSTATEGT.ORG
Fax #		Sampler:	1 Fry
Report By:	☐ Mail	☒ PDF	☐ FAX

Analysis (Check all applicable)

P. O./Project Number: New Horizon Mgmt			
Contact: T Fry			
Address: 27646 W 5th Ave Mount CO 81424			
Phone # 970 864 1073		E-Mail: TFry@TRESNATEGT.ORG	
Fax #		Sampler: TFry	
Report By: ☐ Mail ☒ PDF ☐ FAX			
Sample Location or ID	Date	Time	Grab/Comp
NPPES 013	10.6.17	1200	G
Lab ID (LAB Use Only) 317085.0			
WET: Acute (Indicate Below)			
WET: Chronic (Indicate Below)			
WET: Accelerated (Indicate Below)			
WET: PTI/TIE/TRE (Indicate Below)			
Metals (List Below)			
Solids (TS/TDS/TSS) (Circle)			
Anions (List Below)			
Chromium III/VI (Circle)			
Oil and Grease			
Coliform (Total/Fecal/E-Coli) (Circle)			
BOD/COD (Circle)			
Other Analysis (List Below)			
Number of Containers			
Total Volume			

Turnaround Requirements (Analytical Testing Only)

	Standard (10 days)	6-9 Day
3-5 Day		1-2 Day

Requested Report Date:

Relinquished By (1)		Received By (1)		Relinquished By (2)		Received By (2)	
Signature 	Date/Time 10/6/17 1230	Signature	Date/Time	Signature WPS	Date/Time	Signature 	Date/Time 10/7/17 1127

Special Instructions/Comments:

2nd Attempt / SHIPPING ERROR ON 1st Attempt



Analysis (Check all applicable)

Test Species: ☐ Fathead Minnow

2nd Attempt

Relinquished By (2)

Signature

Date/Time
(100717)
(130)



100