



December 25, 2024

VIA Electronic Mail: Zach.Trujillo@state.co.us

Mr. Zach Trujillo
Environmental Protection Specialist
Division of Reclamation, Mining, & Safety
Coal Program Support Staff
1313 Sherman Street, RM 215
Denver, Colorado 80203

RE: November 2024 Discharge Monitoring Report Submittal
CDPS Permit #CO-0045161
Colowyo Coal Company, LP – Colowyo Mine
DRMS Mine Permit #C-1981-019

Dear Mr. Trujillo:

Enclosed is the Discharge Monitoring Report (DMR) for the Colowyo Coal Company, LP. (Colowyo) – Colowyo Mine CDPS Permit No. CO-0045161 for November of 2024. Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent of Axial Basin Coal Company, which is the general partner of Colowyo Coal Company, L.P. The enclosed November DMRs were submitted electronically through the EPA's NetDMR program.

If you have any questions about the enclosed reports, please contact Andy Berger at 303-254-3171 or Darlene Crosby at 303-254-3055.

Sincerely,

DocuSigned by:

4BE980BE59E442F...

Chris Gilbreath
Sr. Manager
Remediation and Reclamation

CG:DC

cc: DRMS Representative, Denver, CO
Tony Tennyson (via email)
Jennifer Prokop (via email)
Andy Berger (via email)
File: G471 – 11.3(10)a-9a
Colowyo CF 21.1.2.201

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

003
External Outfall

Discharge:

003-A
Gossard Pond to Wilson Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pg 6 and 8. Oil and grease - see I.C.1.b, pp 5-6. Report SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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				
00094	Conductivity	1 - Effluent Gross	0	--	Sample													7B - dS/m	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG							
					Value NODI									C - No Discharge							
00400	pH	1 - Effluent Gross	0	--	Sample						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/30 - Monthly	GR - Grab	
					Permit Req.																
					Value NODI							C - No Discharge				C - No Discharge					
00440	Bicarbonate ion- [as HCO3]	1 - Effluent Gross	0	--	Sample													19 - mg/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample													19 - mg/L	01/30 - Monthly	GR - Grab	
					Permit Req.								<=	35.0 30DA AVG	<=	70.0 DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00918	Calcium, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00921	Magnesium, total recoverable	1 - Effluent Gross	0	--	Sample													28 - ug/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00923	Sodium, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					

[illegible]

50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Req.	<=	0.82 30DA AVG		Req Mon DAILY MX	03 - MGD								01/30 - Monthly	Instantaneous
					Value NODI		C - No Discharge		C - No Discharge										
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														
					Permit Req.									Req Mon 30DA AVG			28 - ug/L	02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge					
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample														
					Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1								01/30 - Monthly	VI - Visual
					Value NODI				C - No Discharge										
84165	Discharge event observation [Visual Monitoring]	1 - Effluent Gross	0	--	Sample														
					Permit Req.		Req Mon 30DA AVG			FP - fail=0;pass=1		Req Mon 30DA ARI					4K - #/mo	01/30 - Monthly	CA - Calculated
					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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:02 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

aberger@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

003
External Outfall

Discharge:

003-Q
Quarterly Monitoring for 003A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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			
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
81020	Sulfate	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

abberger@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

003
External Outfall

Discharge:

003-W
Acute WET Testing for 003A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

See I.D.1 details of test procedure. Report LC50 - Statistical point estimate which is lethal to 50% of test organisms (LC50) and attach acute toxicity test report form to DMR.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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			
84165	Discharge event observation [Visual Monitoring]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CA - Calculated
					Permit Req.		Req Mon 30DA AVG			FP - fail=0;pass=1				Req Mon MO TOTAL			93 - occur/mo			
					Value NODI		C - No Discharge							C - No Discharge						
TAM3B	LC50 Static Renewal 48Hr Acute Ceriodaphnia dubia	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.						>=	100.0 MN VALUE					23 - %			
					Value NODI							C - No Discharge								
TAN6C	LC50 Static Renewal 96Hr Acute Pimephales promelas	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.						>=	100.0 MN VALUE					23 - %			
					Value NODI							C - No Discharge								

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

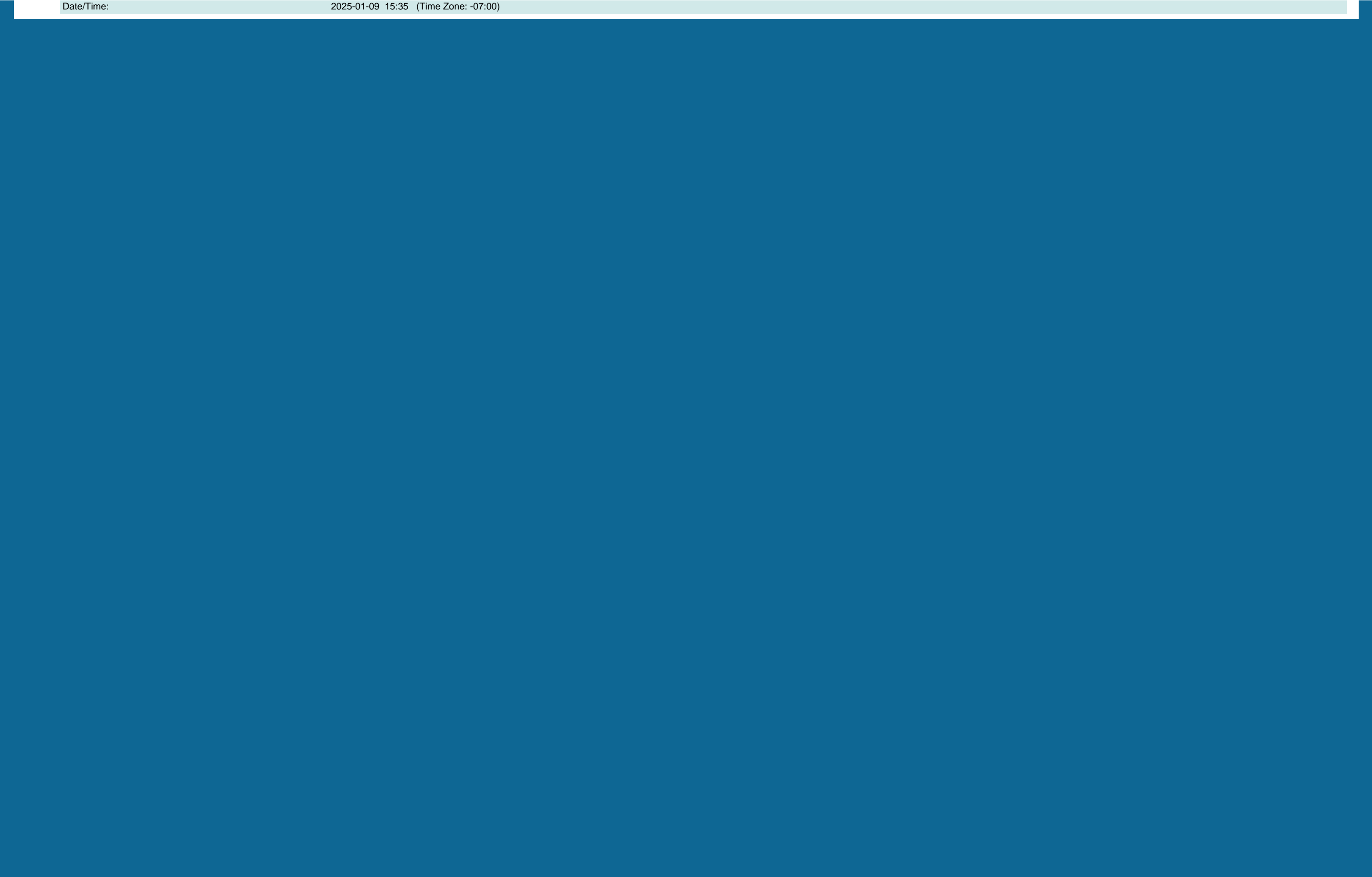
ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

aberge@tristategt.org



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

006
External Outfall

Discharge:

006-A
Rail Loop/Wilson Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pg 10. Oil and grease - see I.C.1.b, pp 5-6. Report SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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				
00094	Conductivity	1 - Effluent Gross	0	--	Sample													7B - dS/m	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG							
					Value NODI									C - No Discharge							
00400	pH	1 - Effluent Gross	0	--	Sample						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/30 - Monthly	GR - Grab	
					Permit Req.																
					Value NODI							C - No Discharge				C - No Discharge					
00440	Bicarbonate ion- [as HCO3]	1 - Effluent Gross	0	--	Sample													19 - mg/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample													19 - mg/L	01/30 - Monthly	GR - Grab	
					Permit Req.								<=	35.0 30DA AVG	<=	70.0 DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00918	Calcium, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00921	Magnesium, total recoverable	1 - Effluent Gross	0	--	Sample													28 - ug/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					
					Value NODI									C - No Discharge		C - No Discharge					
00923	Sodium, total recoverable	1 - Effluent Gross	0	--	Sample													19 - mg/L	02/30 - Twice Per Month	GR - Grab	
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX					

[illegible]

50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Req.	<=	0.32 30DA AVG		Req Mon DAILY MX	03 - MGD								01/30 - Monthly	Instantaneous
					Value NODI		C - No Discharge		C - No Discharge										
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														
					Permit Req.								Req Mon 30DA AVG				28 - ug/L	02/30 - Twice Per Month	GR - Grab
					Value NODI								C - No Discharge						
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample														
					Permit Req.				Req Mon INST MAX	AB - abst=0;prst=1								01/30 - Monthly	VI - Visual
					Value NODI				C - No Discharge										
84165	Discharge event observation [Visual Monitoring]	1 - Effluent Gross	0	--	Sample														
					Permit Req.		Req Mon 30DA AVG			FP - fail=0;pass=1				Req Mon 30DA AVG				4K - #/mo	01/30 - Monthly
					Value NODI		C - No Discharge							C - No Discharge					CA - Calculated

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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

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User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

aberger@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

006
External Outfall

Discharge:

006-Q
Quarterly Monitoring for 006A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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			
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
81020	Sulfate	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					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

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Report Last Saved By

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

abberger@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

006
External Outfall

Discharge:

006-W
Acute WET Testing for 006A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

See I.D.1 for details of test procedure. Report LC50 - Statistical point estimate which is lethal to 50% of test organisms (LC50) and attach acute toxicity test report form to DMR.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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			
84165	Discharge event observation [Visual Monitoring]	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	CA - Calculated
					Permit Req.		Req Mon 30DA AVG			FP - fail=0;pass=1				Req Mon MO TOTAL			93 - occur/mo			
					Value NODI		C - No Discharge							C - No Discharge						
TAM3B	LC50 Static Renewal 48Hr Acute Ceriodaphnia dubia	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.						>=	100.0 MN VALUE					23 - %			
					Value NODI							C - No Discharge								
TAN6C	LC50 Static Renewal 96Hr Acute Pimephales promelas	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.						>=	100.0 MN VALUE					23 - %			
					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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

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E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

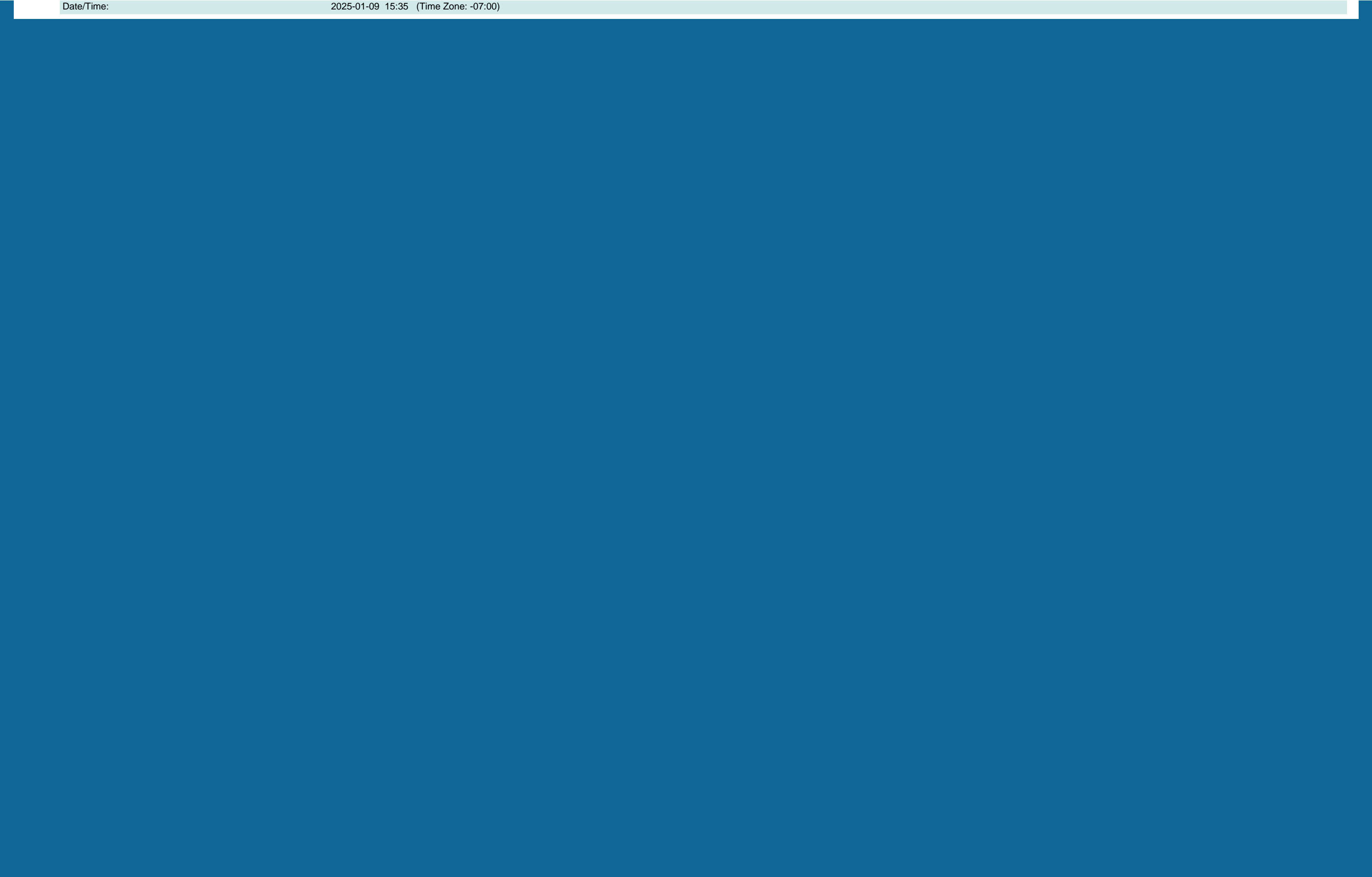
ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

aberge@tristategt.org



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

010
External Outfall

Discharge:

010-A
East Taylor Pond to Taylor Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pg 12. Oil and grease - see I.C.1.b, pp 5-6. Report SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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			
00094	Conductivity	1 - Effluent Gross	0	--	Sample								=	7065.0			7B - dS/m	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			7B - dS/m		02/30 - Twice Per Month	GR - Grab
					Value NODI															
00400	pH	1 - Effluent Gross	0	--	Sample						=	8.1			=	8.2	12 - SU	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.						>=	6.5 MINIMUM			<=	9.0 MAXIMUM	12 - SU		01/30 - Monthly	GR - Grab
					Value NODI															
00440	Bicarbonate ion- [as HCO3]	1 - Effluent Gross	0	--	Sample								=	1130.0	=	1130.0	19 - mg/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI															
00530	Solids, total suspended	1 - Effluent Gross	0	--	Sample								=	8.0	=	8.0	19 - mg/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	35.0 30DA AVG	<=	70.0 DAILY MX	19 - mg/L		01/30 - Monthly	GR - Grab
					Value NODI															
00918	Calcium, total recoverable	1 - Effluent Gross	0	--	Sample								=	160.5	=	168.0	19 - mg/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI															
00921	Magnesium, total recoverable	1 - Effluent Gross	0	--	Sample								=	126.0	=	127.0	19 - mg/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI															
					Sample								=	861.5	=	869.0	19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Permit									Req Mon 30DA					02/30 - Twice Per	

00923	Sodium, total recoverable	1 - Effluent Gross	0	--	Req. Value NODI										AVG		Req Mon DAILY MX	19 - mg/L	0	Month	GR - Grab
00931	Sodium adsorption ratio	EG - Effluent Gross	0	--	Sample									=	12.5	=	13.0	1U - Ratio	0	02/30 - Twice Per Month	CA - Calculated
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	1U - Ratio			
					Value NODI																
00931	Sodium adsorption ratio	P - See Comments	0	--	Sample									=	16.0	=	16.0	1U - Ratio	0	02/30 - Twice Per Month	CA - Calculated
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	1U - Ratio			
					Value NODI																
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample									=	0.76			28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG			28 - ug/L			
					Value NODI																
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample									=	240.0	=	258.0	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.									<=	1000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI																
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample									<	15.0	<	15.0	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI																
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample									<	0.5	<	0.5	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI																
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample									<	2.0	<	2.0	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI																
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample									<	0.25	<	0.25	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI																
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample									<	20.0			28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG			28 - ug/L			
					Value NODI																
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample									=	697.5	=	698.0	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					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.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					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				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample									<	20.0	<	20.0	28 - ug/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI																
					Sample	=	0.332	=	0.361	03 - MGD										02/30 - Twice Per Month	IN - Instantaneous

50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Permit Req.	<=	1.5 30DA AVG		Req Mon DAILY MX	03 - MGD								0	01/30 - Monthly	IN - Instantaneous		
					Value NODI																	
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample							<	0.001					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																	
84066	Oil and grease visual	1 - Effluent Gross	0	--	Sample			=	0.0	AB - abst=0;prst=1									01/30 - Monthly	VI - Visual		
					Permit Req.								Req Mon INST MAX	AB - abst=0;prst=1							01/30 - Monthly	VI - Visual
					Value NODI																	

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

User: JENNIFER.PROKOP@TRISTATEGT.ORG

Name: Jennifer Prokop

E-Mail: jennifer.prokop@tristategt.org

Date/Time: 2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User: ABERGER@TRISTATEGT.ORG

Name: Peter Berger

E-Mail: aberger@tristategt.org

Date/Time: 2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

010
External Outfall

Discharge:

010-Q
Quarterly Monitoring for 010A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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			
70295	Solids, total dissolved	1 - Effluent Gross	0	--	Sample								=	3564.17			19 - mg/L	0	02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA GM			19 - mg/L		01/90 - Quarterly	GR - Grab
					Value NODI															

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

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Colowyo Coal Co LP

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Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:10 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

abberger@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

010
External Outfall

Discharge:

010-X
Chronic WET Testing at 010A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

See I.D.1 for details of test procedure. Report NOEC using test code "S". Report IC25 using test code "P".

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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	0	--	Sample					=	43.1						2G - tox chronic	0	01/90 - Quarterly	G3 - 3 Grabs
					Permit Req.						Req Mon SINGSAMP						2G - tox chronic		01/90 - Quarterly	G3 - 3 Grabs
					Value NODI															
TKP3B	Static Renewal 7 Day Chronic Ceriodaphnia dubia	S - See Comments	0	--	Sample					=	20.0						2G - tox chronic	0	01/90 - Quarterly	G3 - 3 Grabs
					Permit Req.						Req Mon MN VALUE						2G - tox chronic		01/90 - Quarterly	G3 - 3 Grabs
					Value NODI															
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	P - See Comments	0	--	Sample					>	100.0						2G - tox chronic	0	01/90 - Quarterly	G3 - 3 Grabs
					Permit Req.						Req Mon SINGSAMP						2G - tox chronic		01/90 - Quarterly	G3 - 3 Grabs
					Value NODI															
TKP6C	Static Renewal 7 Day Chronic Pimephales promelas	S - See Comments	0	--	Sample					>	100.0						2G - tox chronic	0	01/90 - Quarterly	G3 - 3 Grabs
					Permit Req.						Req Mon MN VALUE						2G - tox chronic		01/90 - Quarterly	G3 - 3 Grabs
					Value NODI															

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Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
241107_Colowyo_CO0045161_Outfall010A_Status_Report_Cover_Letter.pdf	pdf	280380.0
Colowyo_CDPS_Permit_CO0045161_WET_Notification_Q4_2024_Outfall010A.pdf	pdf	279782.0
241024_Colowyo_Co0045161_WET_Test_Lab_Report.pdf	pdf	5997347.0

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User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:	jennifer.prokop@tristategt.org
Date/Time:	2025-01-06 07:47 (Time Zone: -07:00)
<i>Report Last Signed By</i>	
User:	ABERGER@TRISTATEGT.ORG
Name:	Peter Berger
E-Mail:	abberger@tristategt.org
Date/Time:	2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

013
External Outfall

Discharge:

013-A
Section 25 Pond to Little Collom Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 13-14. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	0.61 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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

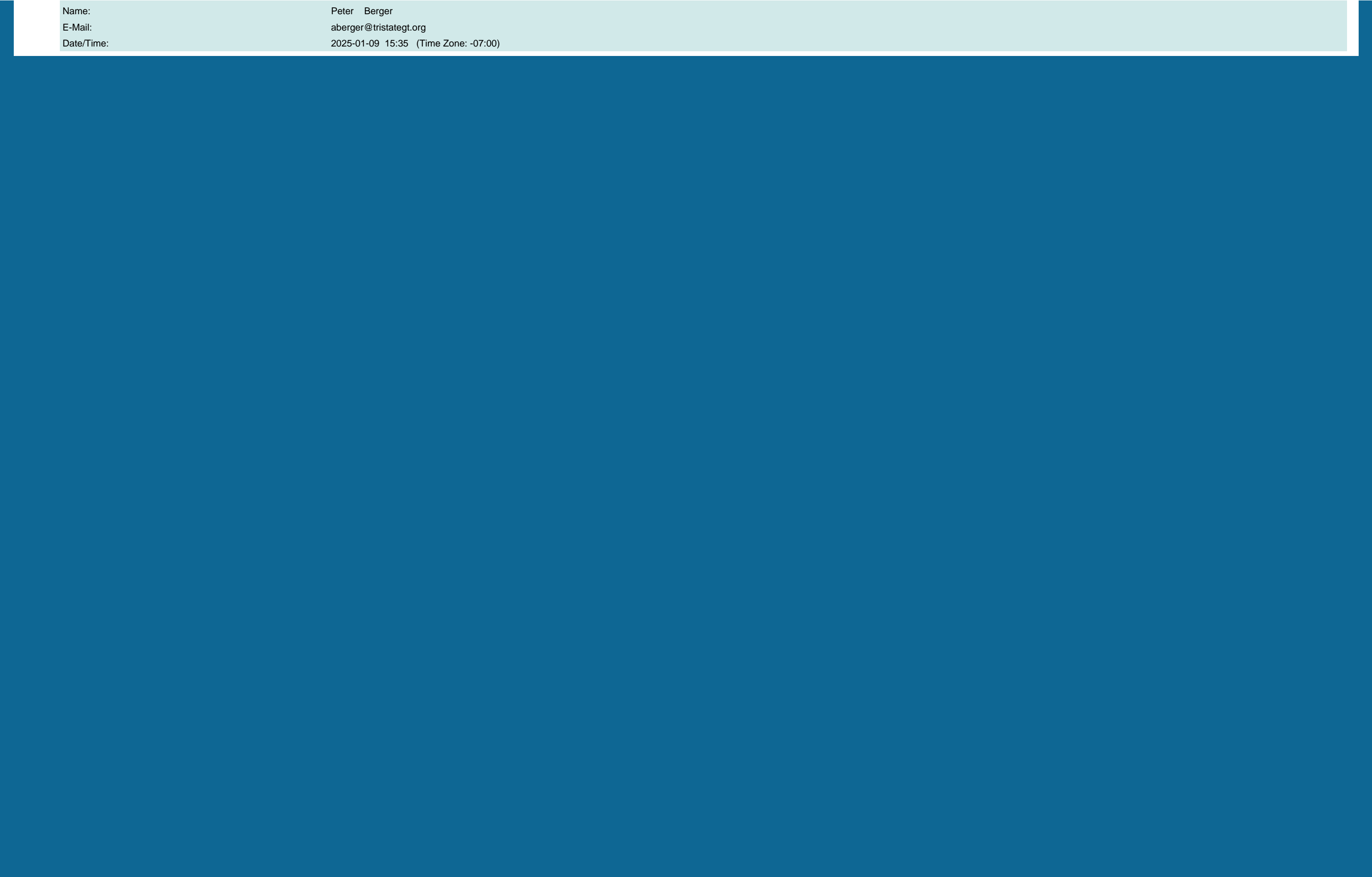
Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

013
External Outfall

Discharge:

013-Q
Quarterly Monitoring for 013A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
00981	Selenium, 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						
01074	Nickel, 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						
01094	Zinc, 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						
01113	Cadmium, 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						
01118	Chromium, total recoverable	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				
01119	Copper, 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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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			
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG					
					Value NODI										C - No Discharge					
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX			
					Value NODI										C - No Discharge		C - No Discharge			
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX			
					Value NODI										C - No Discharge		C - No Discharge			
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX			
					Value NODI										C - No Discharge		C - No Discharge			
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX			
					Value NODI										C - No Discharge		C - No Discharge			
11123	Manganese, total recoverable	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG					
					Value NODI										C - No Discharge					
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample													28 - ug/L	01/90 - Quarterly	GR - Grab
					Permit Req.										Req Mon 30DA AVG					
					Value NODI										C - No Discharge					

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

User: JENNIFER.PROKOP@TRISTATEGT.ORG

Name: Jennifer Prokop

E-Mail: jennifer.prokop@tristategt.org

Date/Time: 2025-01-06 08:06 (Time Zone: -07:00)

Report Last Signed By

User: ABERGER@TRISTATEGT.ORG

Name: Peter Berger

E-Mail: aberger@tristategt.org

Date/Time: 2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

014
External Outfall

Discharge:

014-A
Section 26 Pond to Collom Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 15. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	0.43 30DA AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

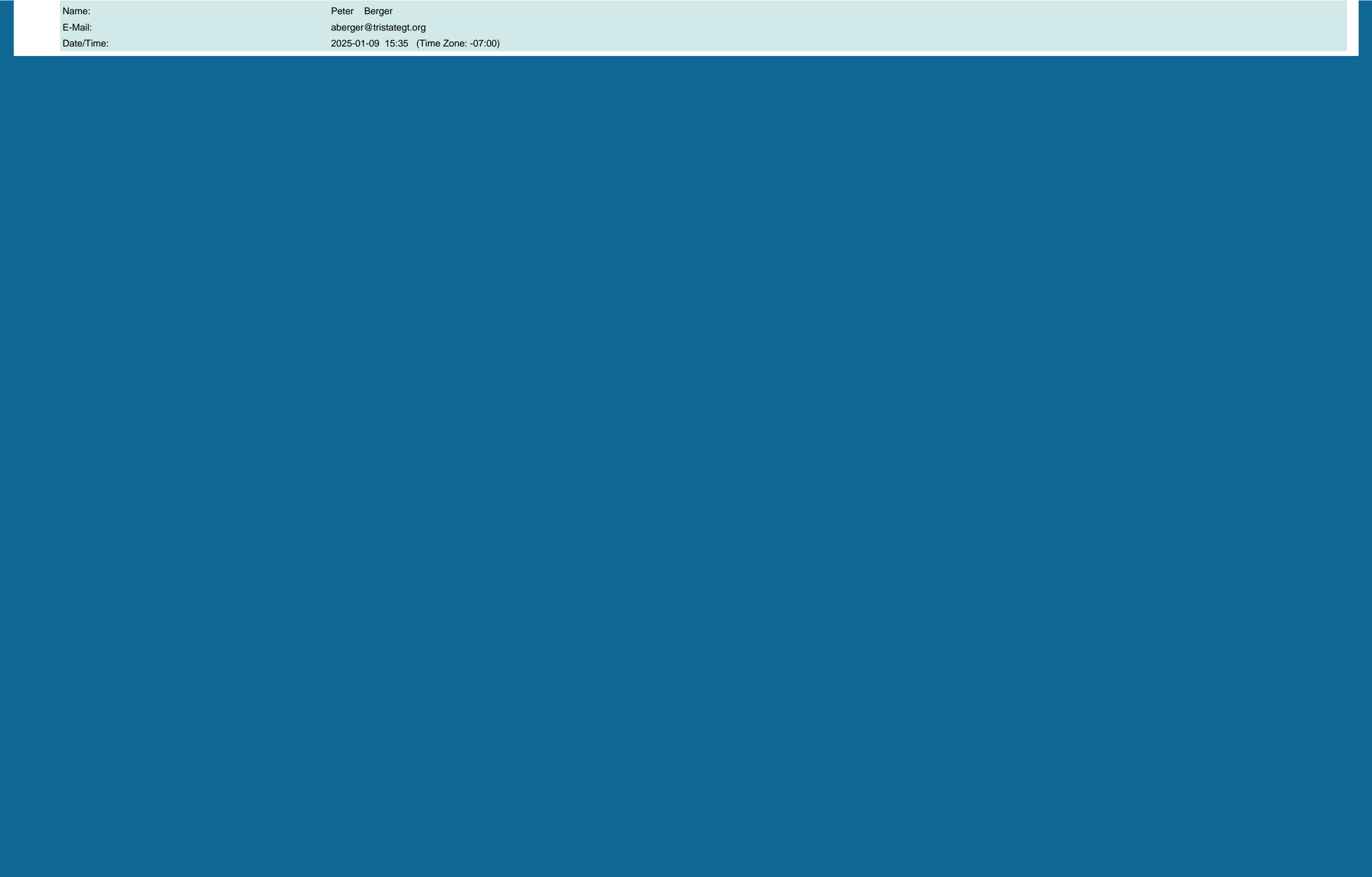
Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

014
External Outfall

Discharge:

014-Q
Quarterly Monitoring for 014A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
00981	Selenium, 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						
01094	Zinc, 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						
01113	Cadmium, 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						
01118	Chromium, total recoverable	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				
01119	Copper, 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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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				
01314	Chromium, trivalent, potentially dissolvd	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															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		01/90 - Quarterly	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		01/90 - Quarterly	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	19 - mg/L		01/90 - Quarterly	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
11123	Manganese, total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		01/90 - Quarterly	GR - Grab
					Value NODI									C - No Discharge						
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		01/90 - Quarterly	GR - Grab
					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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

aberge@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

021
External Outfall

Discharge:

021-A
Sump 1 to Taylor Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 15. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	1.3 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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

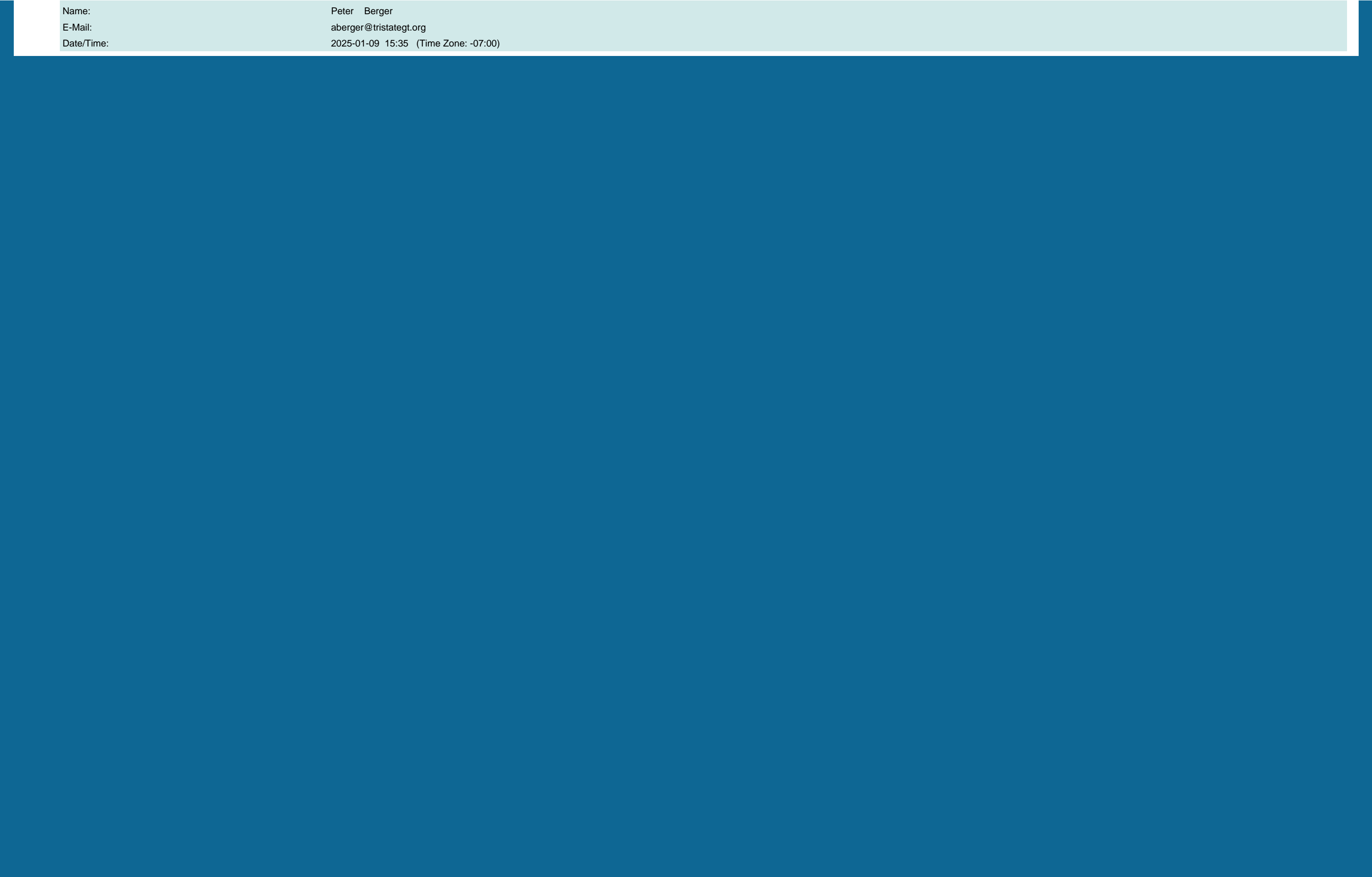
Date/Time:

2024-12-23 15:12 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

021
External Outfall

Discharge:

021-Q
Quarterly Monitoring for 021A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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				
01314	Chromium, trivalent, potentially dissolvd	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				
04262	Chromium, trivalent total recoverable	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				
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

Date/Time:

2025-01-06 08:03 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG

Name:

Peter Berger

E-Mail:

abberger@tristategt.org

Date/Time:

2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

022
External Outfall

Discharge:

022-A
Sump 2 to Taylor Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 17-18. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	0.63 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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

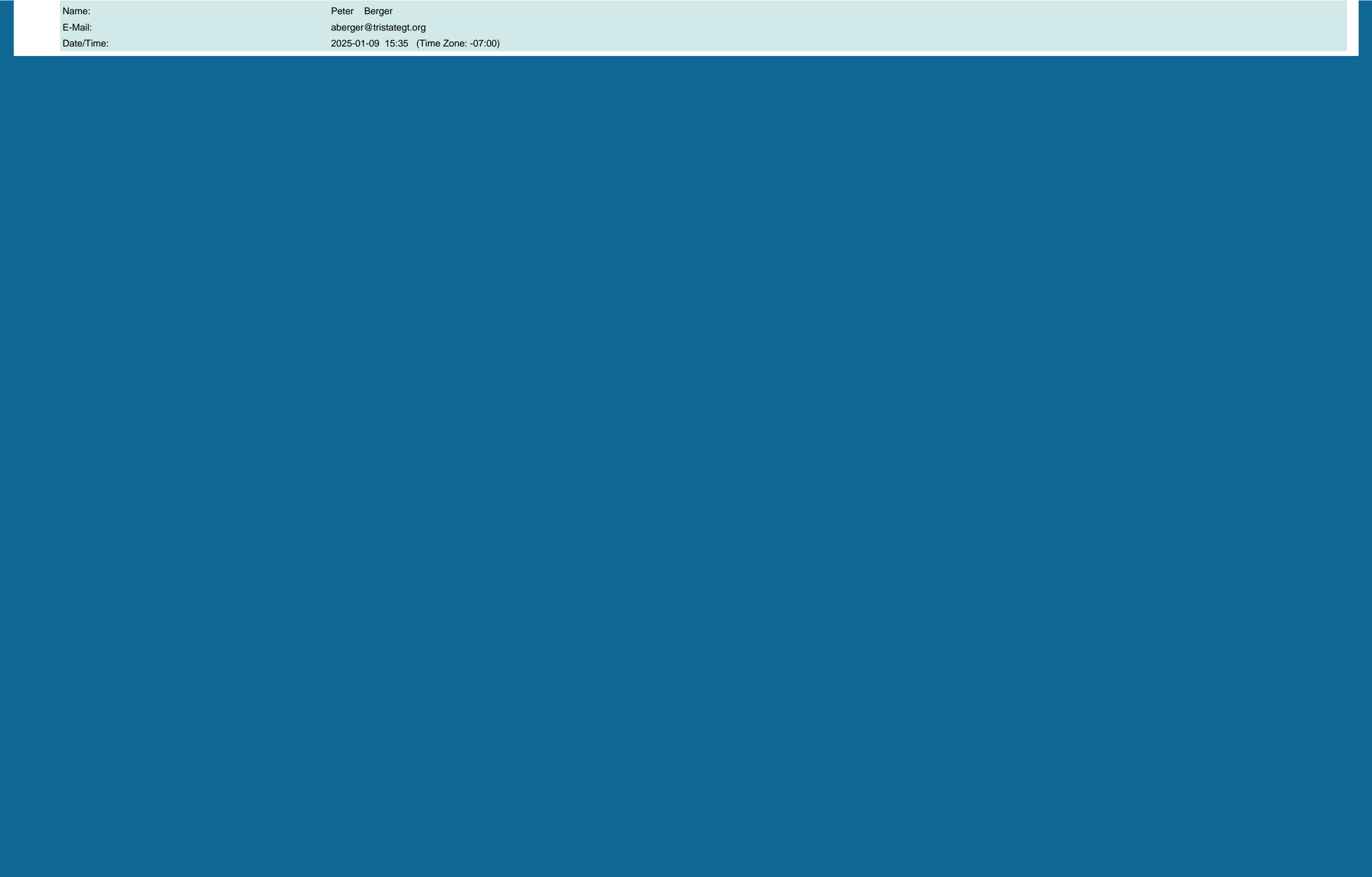
Date/Time:

2024-12-23 15:13 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

022
External Outfall

Discharge:

022-Q
Quarterly Monitoring for 022A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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				
01314	Chromium, trivalent, potentially dissolvd	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				
04262	Chromium, trivalent total recoverable	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				
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					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

Colowyo Coal Co LP

User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2024-12-23 15:13 (Time Zone: -07:00)

Report Last Signed By

User:ABERGER@TRISTATEGT.ORG

Name:Peter Berger

E-Mail:abberger@tristategt.org

Date/Time:2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

023
External Outfall

Discharge:

023-A
Sump 3 to Taylor Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 19-20. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	1.14 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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

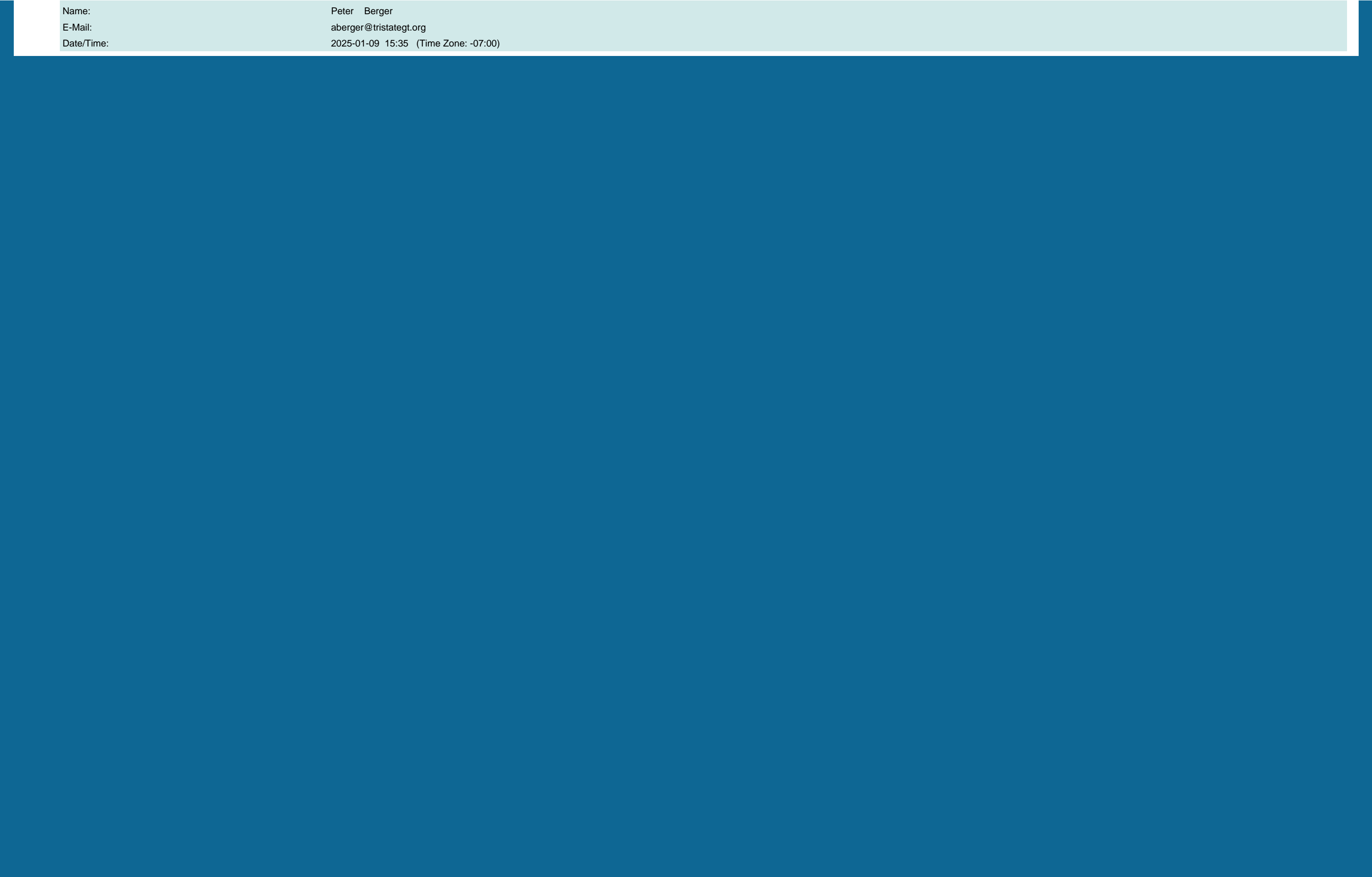
Date/Time:

2024-12-23 15:13 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

023
External Outfall

Discharge:

023-Q
Quarterly Monitoring for 023A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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				
01314	Chromium, trivalent, potentially dissolvd	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				
04262	Chromium, trivalent total recoverable	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				
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					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

Colowyo Coal Co LP

User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2024-12-23 15:14 (Time Zone: -07:00)

Report Last Signed By

User:ABERGER@TRISTATEGT.ORG

Name:Peter Berger

E-Mail:aberge@tristategt.org

Date/Time:2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

024
External Outfall

Discharge:

024-A
Sump 4 to Taylor Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 20-21. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	0.12 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

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

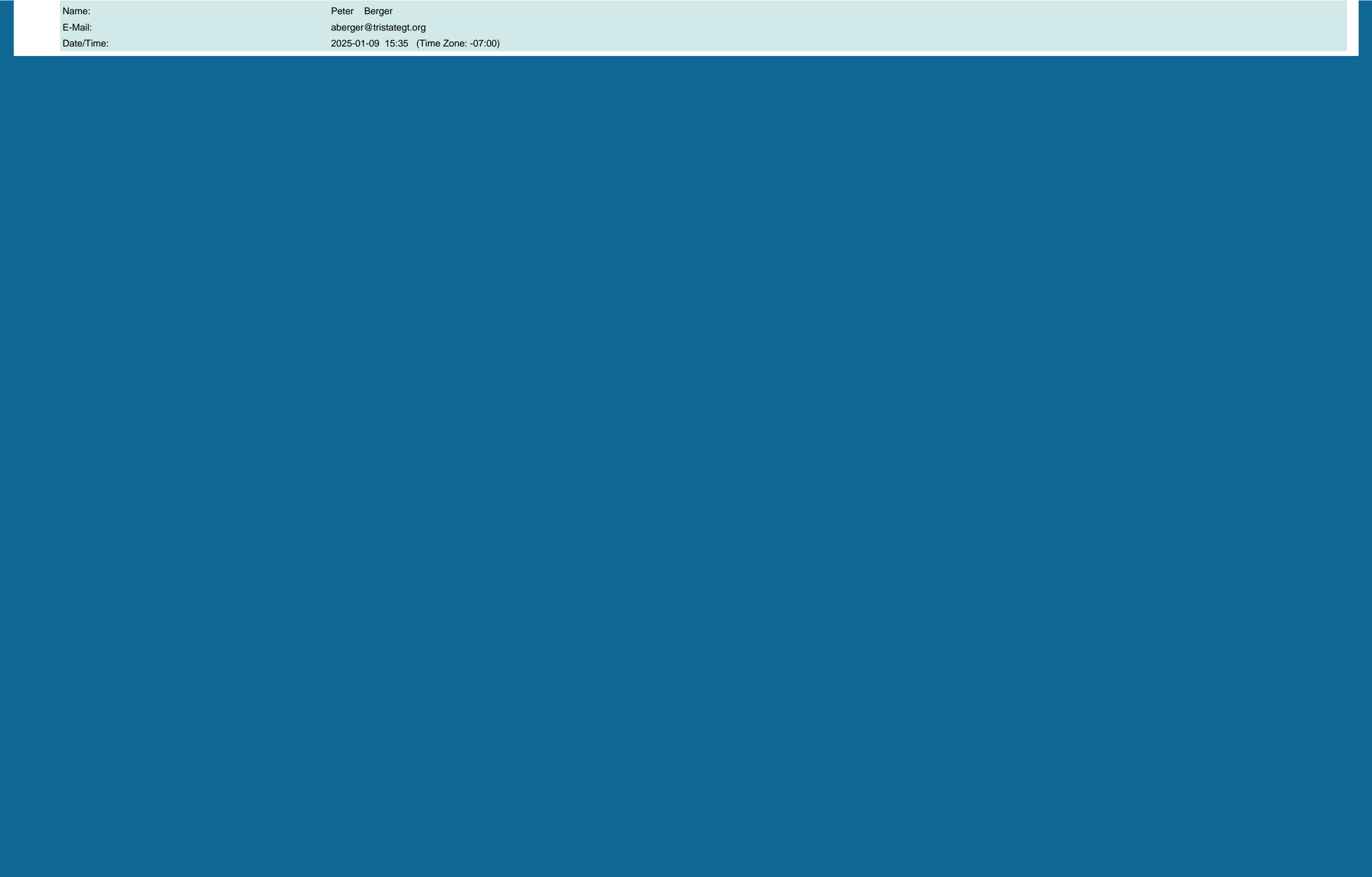
Date/Time:

2025-01-06 08:05 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

024
External Outfall

Discharge:

024-Q
Quarterly Monitoring for 024A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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				
01314	Chromium, trivalent, potentially dissolvd	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				
04262	Chromium, trivalent total recoverable	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				
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					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

Colowyo Coal Co LP

User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2024-12-23 15:14 (Time Zone: -07:00)

Report Last Signed By

User:ABERGER@TRISTATEGT.ORG

Name:Peter Berger

E-Mail:aberge@tristategt.org

Date/Time:2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

025
External Outfall

Discharge:

025-A
Sump 5 to Taylor Creek

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Alternate limitations for TR iron and settleable solids - see pp 21-22. Oil and grease - see I.C.1.b, pp 5-6. Reports SAR calculated limit at MLOC=EG; adjusted SAR effluent at MLOC=P.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	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				
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample														01/30 - Monthly	IN - Instantaneous
					Permit Req.	<=	2.16 30DA AVG		Req Mon DAILY MX	03 - MGD										
					Value NODI		C - No Discharge		C - No Discharge											

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

User:

JENNIFER.PROKOP@TRISTATEGT.ORG

Name:

Jennifer Prokop

E-Mail:

jennifer.prokop@tristategt.org

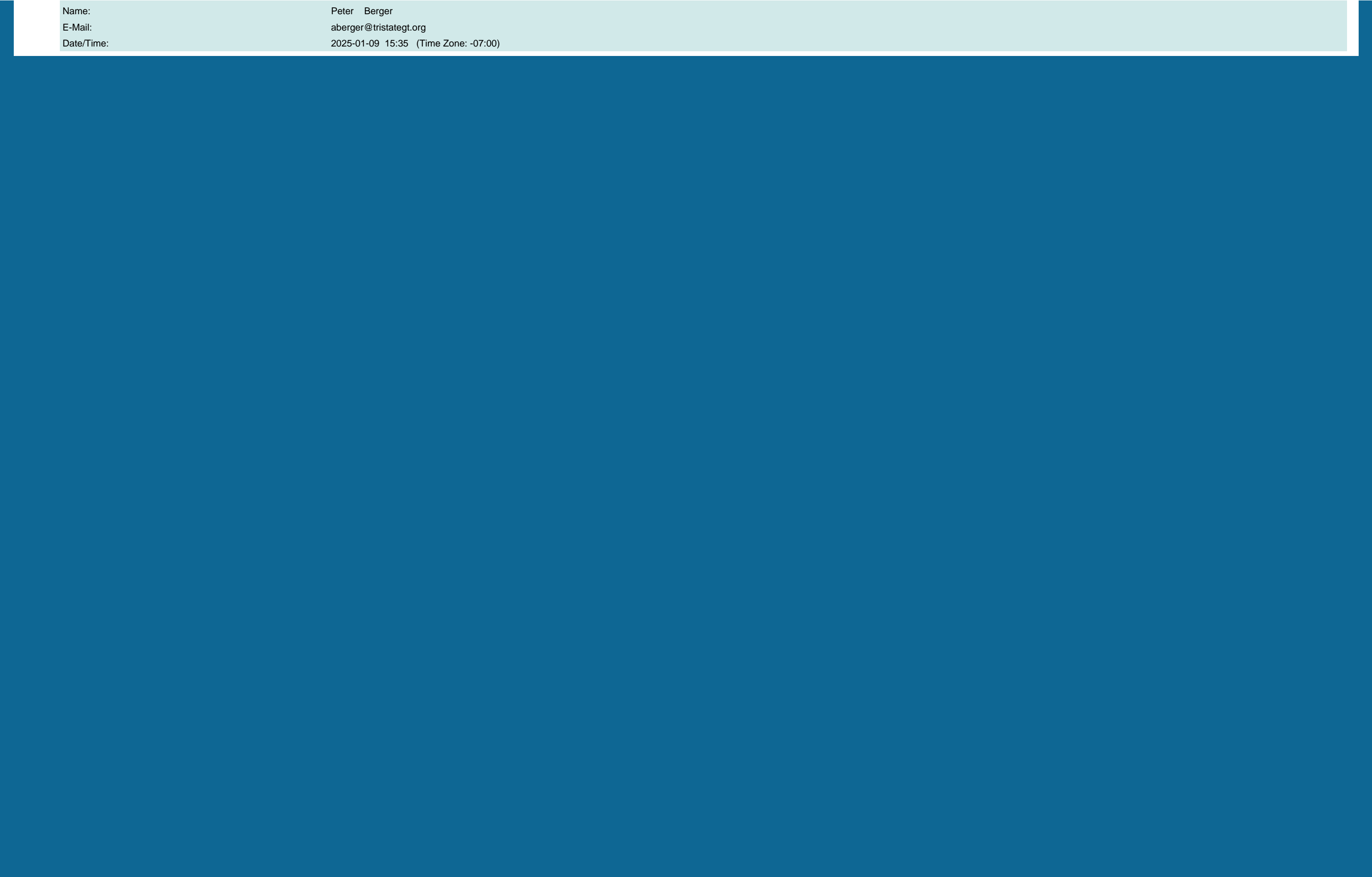
Date/Time:

2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By

User:

ABERGER@TRISTATEGT.ORG



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

025
External Outfall

Discharge:

025-Q
Quarterly Monitoring for 025A

Report Dates & Status

Monitoring Period:

From 10/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

Quarterly monitoring - see Appendix B, 21, pg 53.

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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						
01303	Zinc, potentially dissolved	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				
01306	Copper, potentially dissolved	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				
01313	Cadmium, 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				
01314	Chromium, trivalent, potentially dissolvd	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				
04262	Chromium, trivalent total recoverable	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				
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample														01/90 - Quarterly	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					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

Colowyo Coal Co LP

User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By

User:ABERGER@TRISTATEGT.ORG

Name:Peter Berger

E-Mail:abberger@tristategt.org

Date/Time:2025-01-09 15:35 (Time Zone: -07:00)

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Permit

Permit #:
Major:

CO0045161
No

Permittee:
Permittee Address:

Colowyo Coal Co LP
PO Box 33695
Denver, CO 80233-0695

Facility:
Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

027
External Outfall

Discharge:

027-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI										C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.	<=	4.75 30DA AVG		Req Mon DAILY MX	03 - MGD										01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge												
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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

Colowyo Coal Co LP

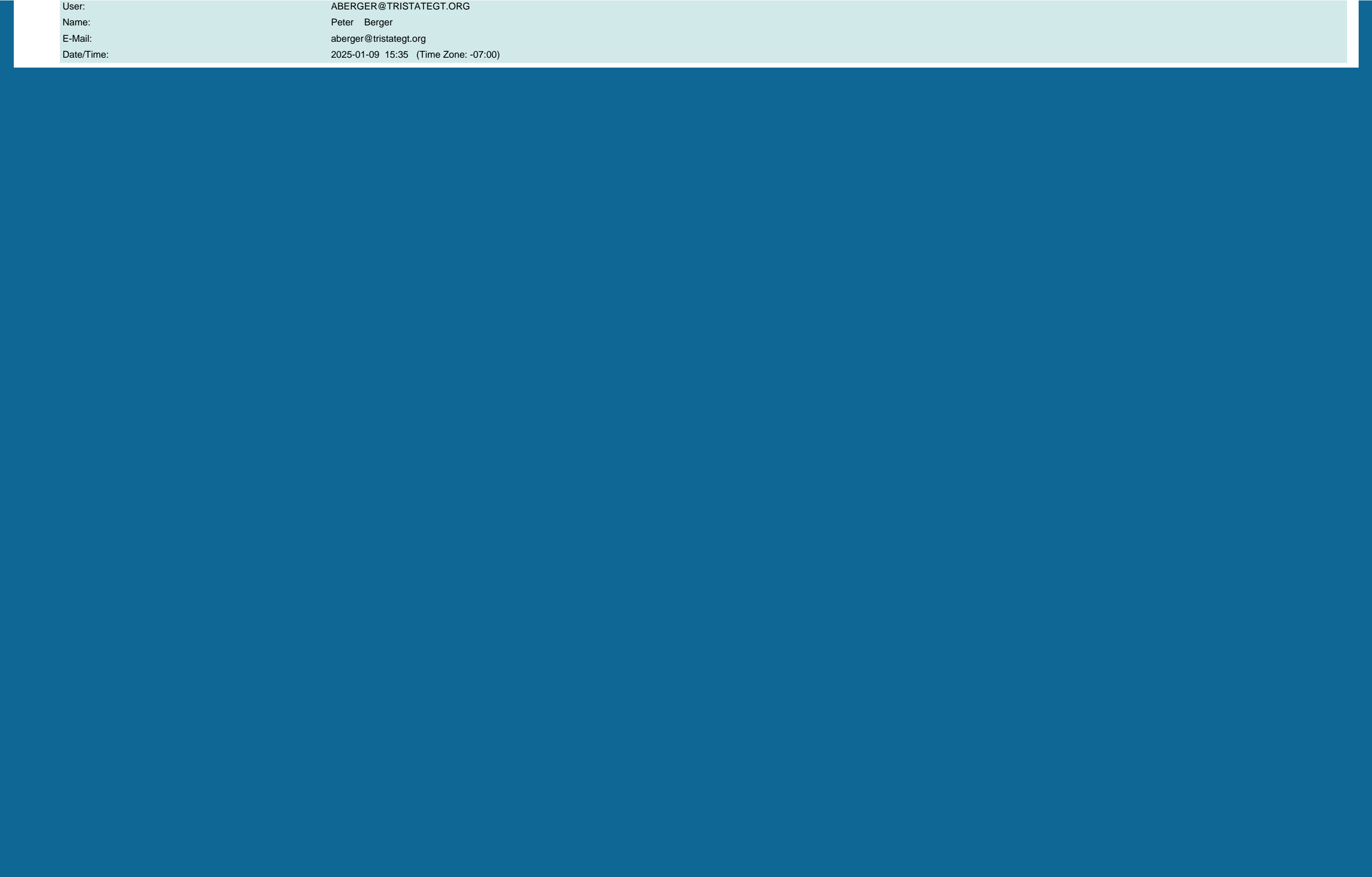
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2024-12-23 15:15 (Time Zone: -07:00)

Report Last Signed By



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Permit

Permit #:
Major:

CO0045161
No

Permittee:
Permittee Address:

Colowyo Coal Co LP
PO Box 33695
Denver, CO 80233-0695

Facility:
Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

028
External Outfall

Discharge:

028-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI										C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.	<=	2.31 30DA AVG		Req Mon DAILY MX	03 - MGD										01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge												
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

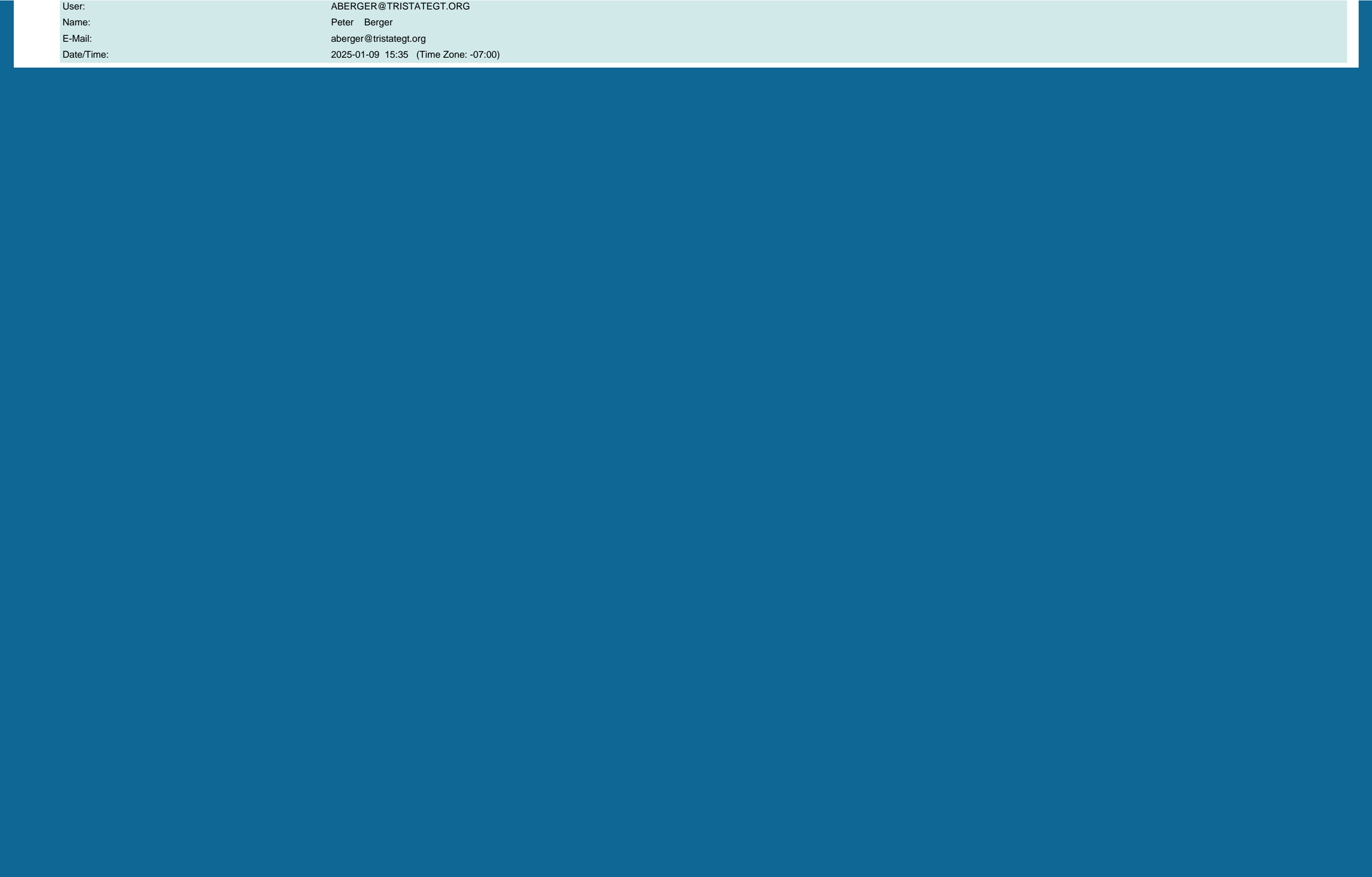
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By



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Permit

Permit #:

CO0045161

Major:

No

Permittee:

Colowyo Coal Co LP

Permittee Address:

PO Box 33695
Denver, CO 80233-0695

Facility:

COLOWYO MINE

Facility Location:

5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

029
External Outfall

Discharge:

029-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:

Peter A.

Last Name:

Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI										C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.	<=	0.375 30DA AVG		Req Mon DAILY MX	03 - MGD										01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge												
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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

Colowyo Coal Co LP

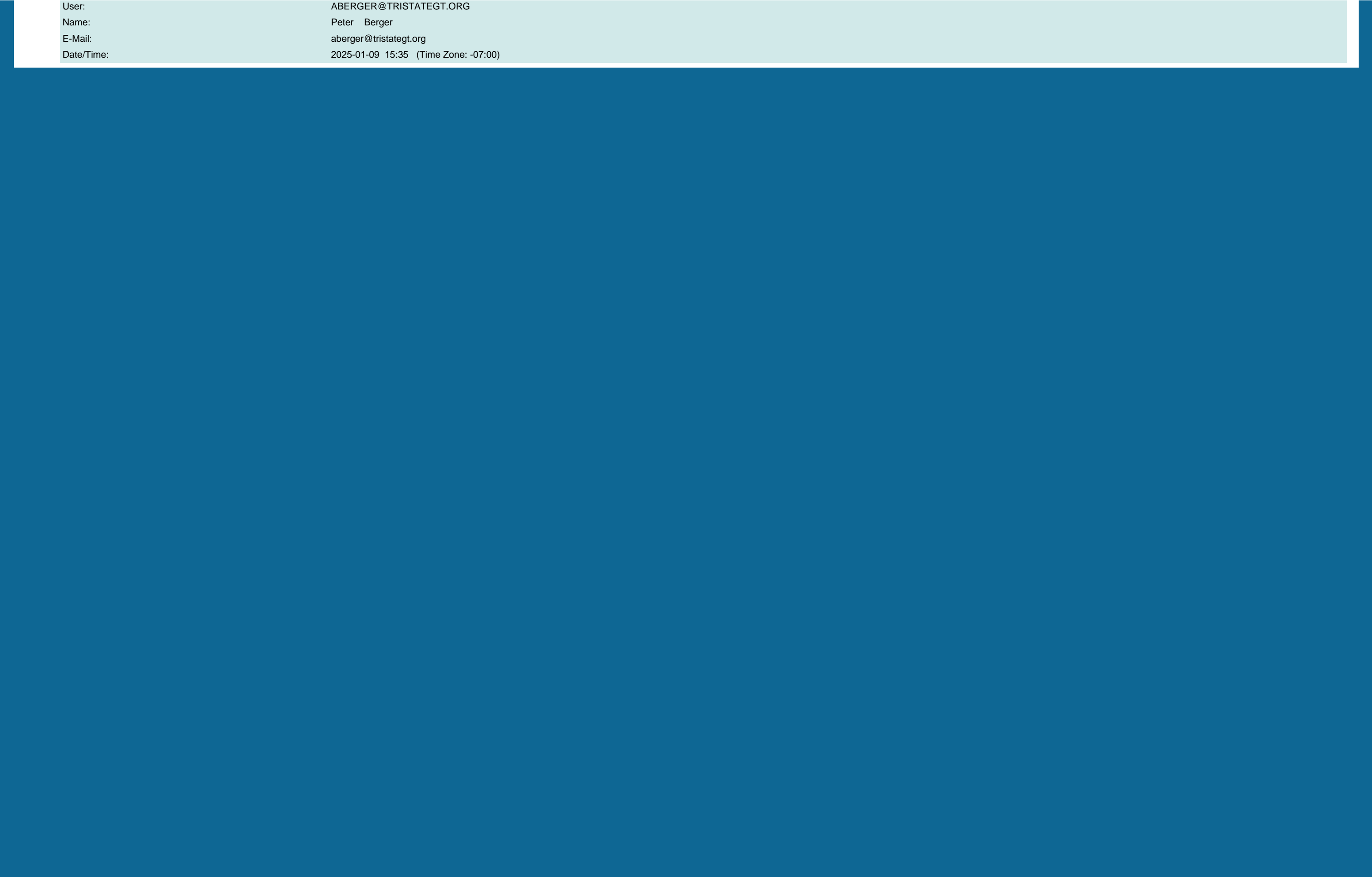
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2024-12-23 15:16 (Time Zone: -07:00)

Report Last Signed By



EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the [NPDES eReporting Help Desk](#) for further guidance. Please note that EPA may contact you after you submit this report for more information.

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Permit

Permit #:
Major:

CO0045161
No

Permittee:
Permittee Address:

Colowyo Coal Co LP
PO Box 33695
Denver, CO 80233-0695

Facility:
Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

030
External Outfall

Discharge:

030-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI										C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.	<=	2.53 30DA AVG		Req Mon DAILY MX	03 - MGD										01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge												
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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

Colowyo Coal Co LP

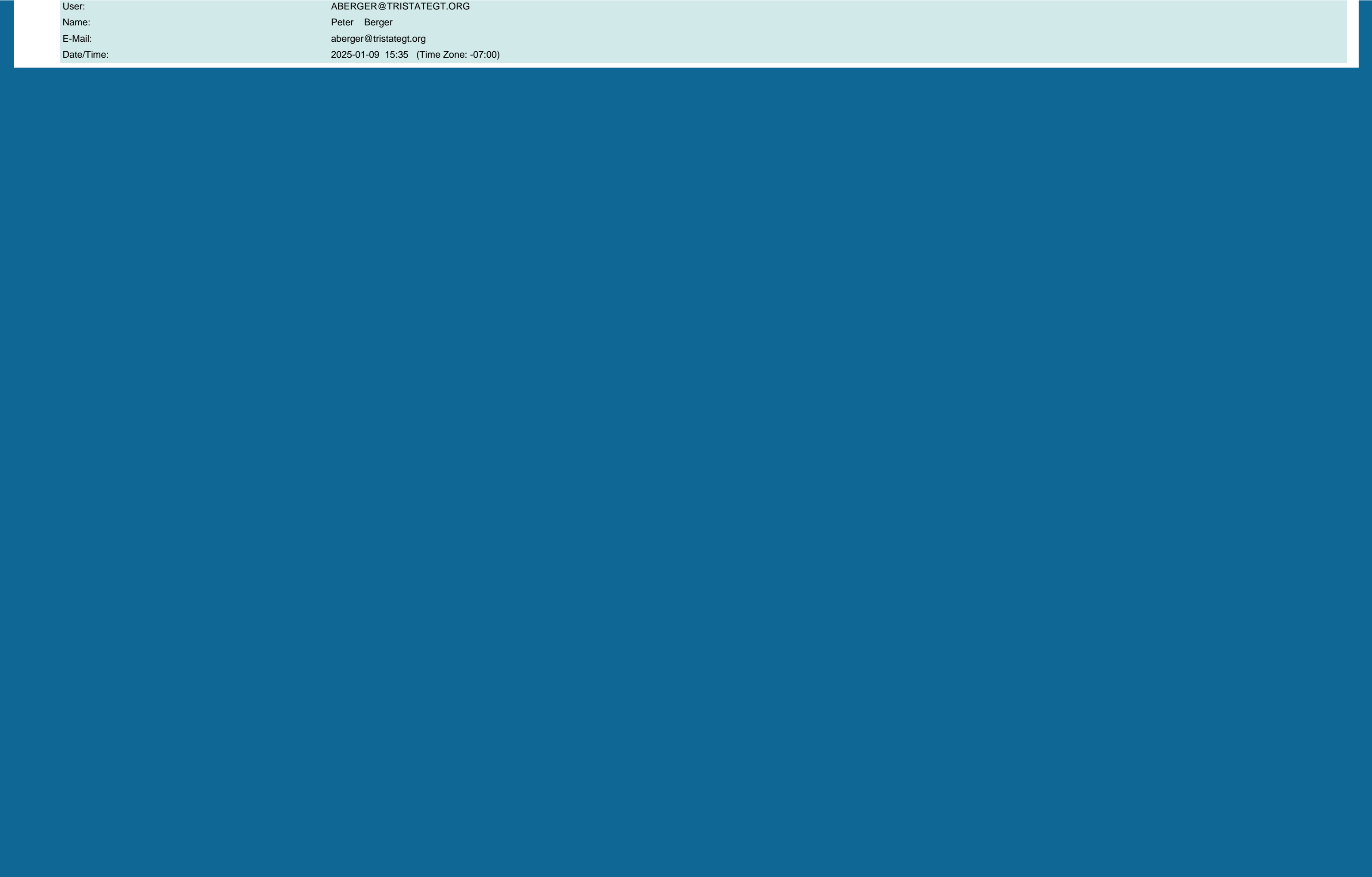
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By



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Permit

Permit #:
Major:

CO0045161
No

Permittee:
Permittee Address:

Colowyo Coal Co LP
PO Box 33695
Denver, CO 80233-0695

Facility:
Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

031
External Outfall

Discharge:

031-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI									C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample															
					Permit Req.	<=	0.704 30DA AVG		Req Mon DAILY MX	03 - MGD									01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge											
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						

Submission Note

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Edit Check Errors

No errors.

Comments

Attachments

No attachments.

Report Last Saved By

Colowyo Coal Co LP

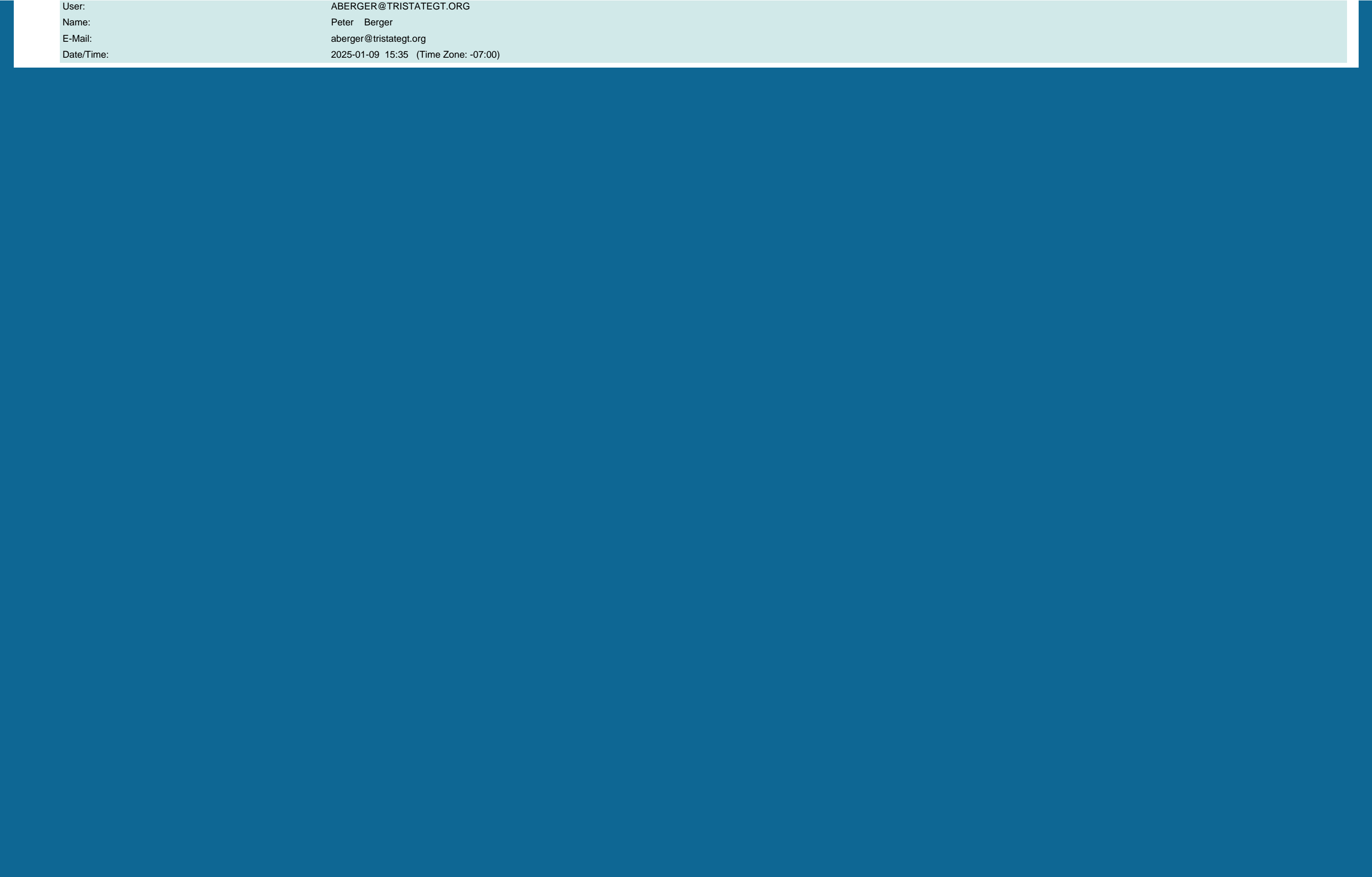
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By



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Permit

Permit #:
Major:

CO0045161
No

Permittee:
Permittee Address:

Colowyo Coal Co LP
PO Box 33695
Denver, CO 80233-0695

Facility:
Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

032
External Outfall

Discharge:

032-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI										C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.	<=	2.31 30DA AVG		Req Mon DAILY MX	03 - MGD										01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge												
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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

Colowyo Coal Co LP

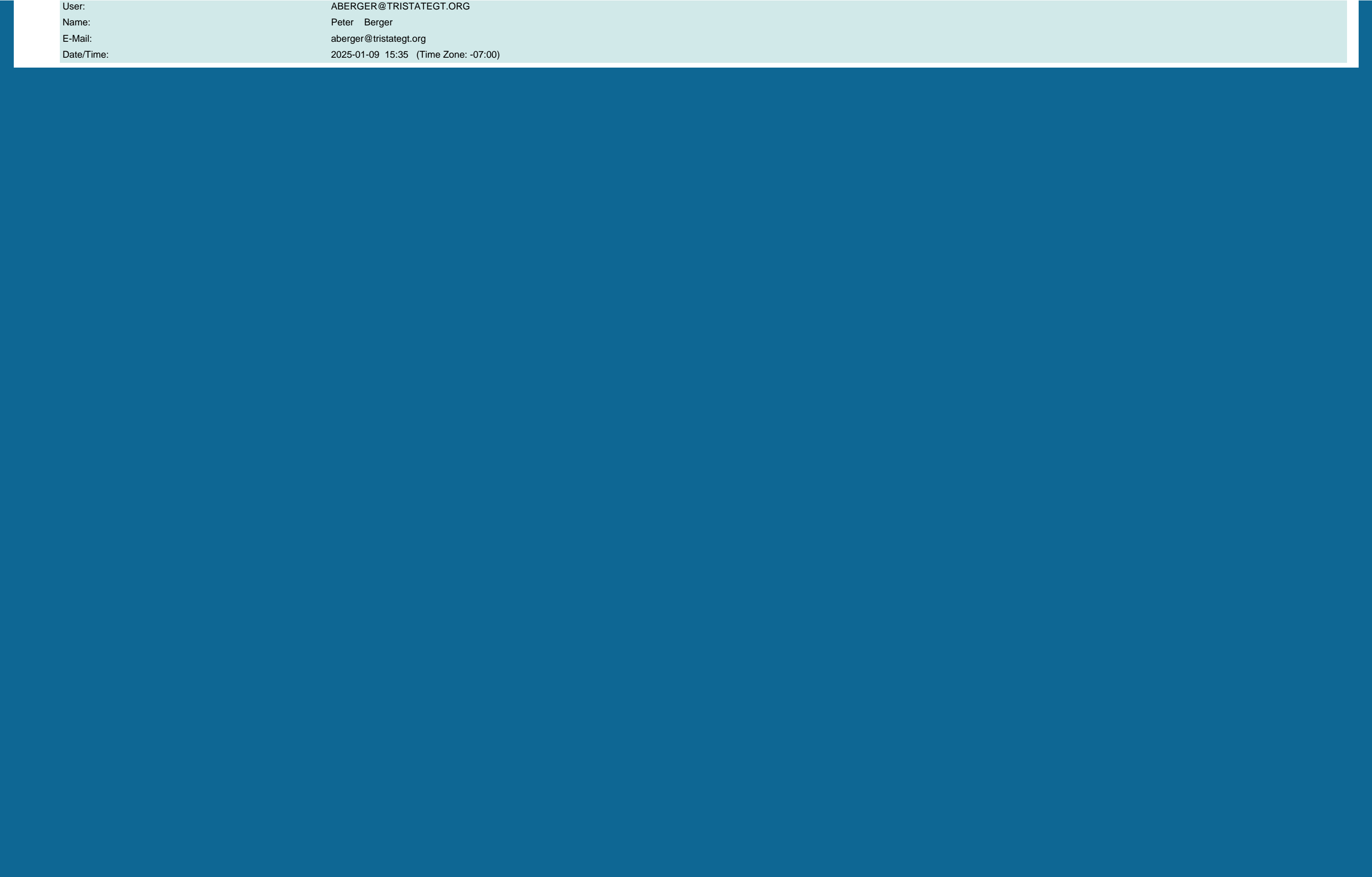
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

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CO0045161
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Permittee Address:

Colowyo Coal Co LP
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Denver, CO 80233-0695

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Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

033
External Outfall

Discharge:

033-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

VP, Environmental Compliance and Policy

Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI										C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample																
					Permit Req.	<=	2.06 30DA AVG		Req Mon DAILY MX	03 - MGD										01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge												
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI										C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample																
					Permit Req.										Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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

Colowyo Coal Co LP

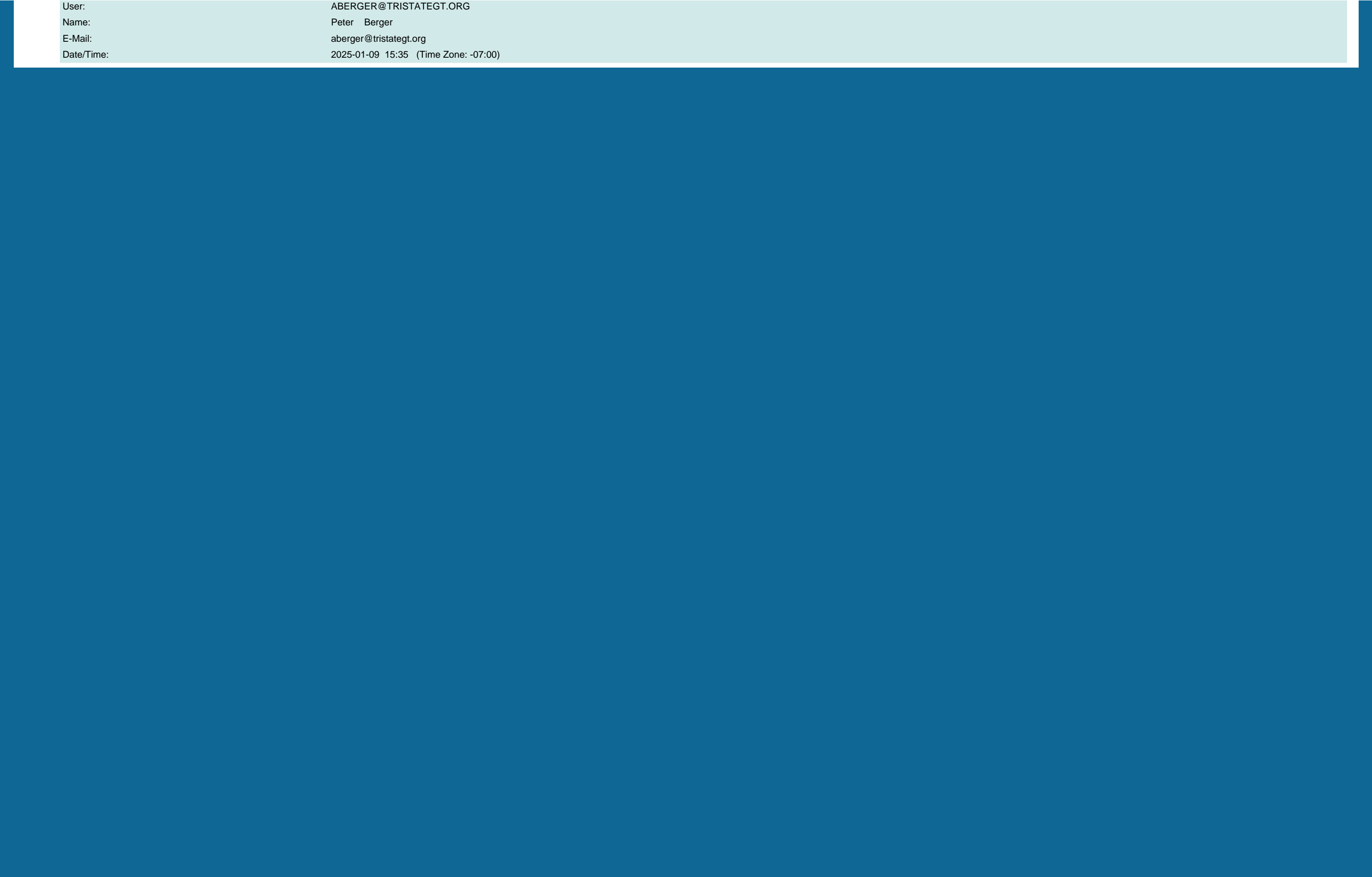
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

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CO0045161
No

Permittee:
Permittee Address:

Colowyo Coal Co LP
PO Box 33695
Denver, CO 80233-0695

Facility:
Facility Location:

COLOWYO MINE
5731 SOUTH HIGHWAY 13
MOFFAT COUNTY, CO 81641

Permitted Feature:

034
External Outfall

Discharge:

034-A
Stormwater discharge from haul road (between coal preparation facilities)

Report Dates & Status

Monitoring Period:

From 12/01/24 to 12/31/24

DMR Due Date:

01/28/25

Status:

NetDMR Validated

Considerations for Form Completion

There will be alternate limits for >10yr/24hr precipitaion event

Principal Executive Officer

First Name:
Last Name:

Peter A.
Berger

Title:

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Telephone:

303-916-1289

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 DAILY MX	19 - mg/L			
					Value NODI									C - No Discharge		C - No Discharge				
00940	Chloride [as Cl]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			19 - mg/L			
					Value NODI									C - No Discharge						
00978	Arsenic, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
00980	Iron, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.								<=	3000.0 30DA AVG	<=	6000.0 DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01074	Nickel, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG			28 - ug/L			
					Value NODI									C - No Discharge						
01113	Cadmium, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01114	Lead, total recoverable	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.											Req Mon DAILY MX	28 - ug/L			
					Value NODI											C - No Discharge				
01220	Chromium, hexavalent dissolved [as Cr]	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			
					Value NODI									C - No Discharge		C - No Discharge				
01303	Zinc, potentially dissolved	1 - Effluent Gross	0	--	Sample														02/30 - Twice Per Month	GR - Grab
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L			

					Value NODI									C - No Discharge		C - No Discharge				
01304	Silver, potentially dissolved	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01306	Copper, potentially dissolved	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01313	Cadmium, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01314	Chromium, trivalent, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01318	Lead, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01319	Manganese, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01322	Nickel, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
01323	Selenium, potentially dissolvd	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
04262	Chromium, trivalent total recoverable	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG		Req Mon DAILY MX	28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge		C - No Discharge				
22708	Uranium, total	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						
50050	Flow, in conduit or thru treatment plant	1 - Effluent Gross	0	--	Sample															
					Permit Req.	<=	0.078 30DA AVG		Req Mon DAILY MX	03 - MGD									01/30 - Monthly	IN - Instantaneous
					Value NODI		C - No Discharge		C - No Discharge											
50286	Mercury, total [low level]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			28 - ug/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						
51202	Sulfide-hydrogen sulfide [undissociated]	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					Value NODI									C - No Discharge						
82057	Boron, total	1 - Effluent Gross	0	--	Sample															
					Permit Req.									Req Mon 30DA AVG			19 - mg/L		02/30 - Twice Per Month	GR - Grab
					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

Colowyo Coal Co LP

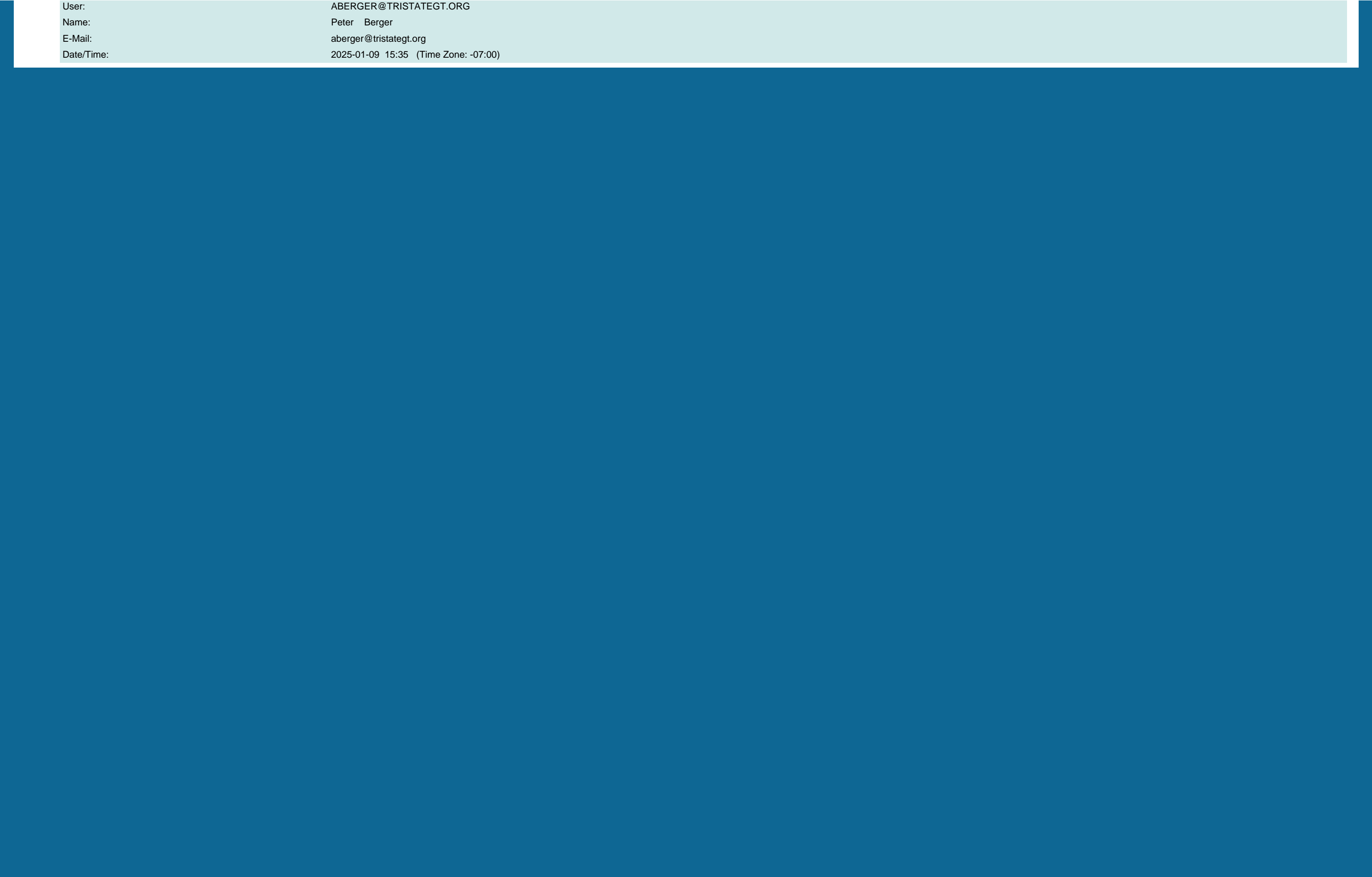
User:JENNIFER.PROKOP@TRISTATEGT.ORG

Name:Jennifer Prokop

E-Mail:jennifer.prokop@tristategt.org

Date/Time:2025-01-06 08:04 (Time Zone: -07:00)

Report Last Signed By





TRI-STATE

November 7, 2024

Submitted electronically to cdphe.wgrecordscenter@state.co.us

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

RE: Colowyo Mine CDPS Permit #CO-0045161
2024 Fourth Quarter DMR Submittal Comments Outfall 101A WET Testing Results

Dear CDPHE Representative:

Tri-State recently notified WQCD of the results of the Fourth Quarter 2024 WET testing for Colowyo Coal Mine (CDPS Permit #CO-0045161). 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.

As documented in the enclosed email from Jacob Dyste on October 31st, 2024 the Division approved the automatic compliance waivers for *Ceriodaphnia dubia* during the reporting period.

If you have any questions about these comments, please contact Jennifer Prokop at jennifer.prokop@tristategt.org or 720-626-0721.

Sincerely,

DocuSigned by:

Peter A. Berger

16623392601843F...

Peter A. Berger

Vice President

Environmental Compliance and Policy/ESG

JHS:JAP:der

Enclosures

cc: Andy Berger, via email
File: G471-11.3(10)a-9a

From: [Berger, Andy](#)
To: [Prokop, Jennifer](#)
Subject: RE: [EXTERNAL] Re: Colowyo CDPS Permit CO0045161 WET Notification for Q4 2024 (Outfall010A)
Date: Thursday, October 31, 2024 4:10:44 PM
Attachments: [image001.png](#)

Thank you Jen! Well done.

Andy

From: Jacob Dyste - CDPHE <jacob.dyste@state.co.us>
Sent: Thursday, October 31, 2024 3:36 PM
To: Prokop, Jennifer <jennifer.prokop@tristategt.org>
Cc: Berger, Andy <andy.berger@tristategt.org>
Subject: [EXTERNAL] Re: Colowyo CDPS Permit CO0045161 WET Notification for Q4 2024 (Outfall010A)

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.

Thank you Jennifer. I have updated the Division's records with the notification.

Jacob - UPDATED PHONE NUMBER: (303) 692-3290

--

Jacob Dyste
Enforcement Specialist



Phone: 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

On Thu, Oct 31, 2024 at 7:49 AM Prokop, Jennifer <jennifer.prokop@tristategt.org> wrote:

Good morning, Jacob,

This email is the 14-business day notification for the Q4 2024 chronic whole effluent toxicity (WET) sampling at Outfall 010A at the Colowyo Coal Company LP – Colowyo Mine (CDPS Permit #CO-0045161) in compliance with Part I.D.1.b. of the permit. The

chronic WET effluent limit for *Ceriodaphnia dubia* for this outfall during Q4 2024 is “report only” pursuant to a compliance schedule. As of 10/1/2023, the automatic compliance response (ACR) is currently applicable for this outfall. However, based on the work completed to date (Toxicity Identification Evaluation and Toxicity Reduction Evaluation) and consistent water quality in Q4 2024, **Colowyo Mine requests a waiver from the ACR requirement.** We will continue to provide updates on the progress to resolve WET with the semi-annual compliance schedule reports.

Tri-State Generation and Transmission Association, Inc. (Tri-State) is the parent of Colowyo.

Colowyo Mine conducts chronic WET testing for Outfall 010A in accordance with the CDPS Permit during a “Report-Only” compliance schedule. The lab report (received 10/11/2024) found the sublethal impacts (reproduction) of NOEC/NOEL (20%) and IC₂₅ (43.1%) for *Ceriodaphnia dubia* were both lower than the IWC (100%). The sublethal impacts (growth) for the *Pimephales promelas* species passed (NOEC:100% and IC₂₅: >100%). Therefore, *Ceriodaphnia* are the most sensitive species.

We will submit the WET test results and Chains of Custody with the quarterly DMR.

We will continue to submit compliance schedule progress reports to the Division as required for chronic WET (*Ceriodaphnia*) at Outfall 010. Colowyo is committed to compliance with all permit requirements and is working to resolve chronic WET as soon as possible.

Please let me know if you have any questions.

Thank you!

Best Regards,

Jennifer Prokop

Environmental Planner III

Tri-State Generation & Transmission

Cell: 720-626-0721

Office: 303-254-3311

Spill Phone: 303-349-7711

www.tristategt.org

Email: jennifer.prokop@tristategt.org



Environmental Services Mission Statement

To provide environmental compliance and policy services with the highest level of integrity to support Tri-State's mission.



SEACREST GROUP

ENVIRONMENTAL SERVICES LABORATORY

October 11, 2024

Tony Tennyson
Colowyo Coal Company
5731 State Highway 13
Meeker, CO 81641

Dear Tony:

Enclosed is the report for chronic biomonitoring tests performed for Colowyo Coal Company on effluent from the 010A outfall. There was statistically significant toxicity to the *Ceriodaphnia dubia* test species at multiple effluent concentrations. The effluent fails WET (Whole Effluent Toxicity) testing requirements for this sampling period.

If you have any questions or concerns, please do not hesitate to contact me at (303) 661-9324.

Best regards,

A handwritten signature in black ink, appearing to read 'Cat McDonald'.

Catherine McDonald
Laboratory Manager

**REPORT OF CHRONIC BIOMONITORING TESTS
CONDUCTED FOR
COLOWYO COAL COMPANY
ON EFFLUENT FROM
THE 010A OUTFALL**

Prepared for:

Tony Tennyson
Colowyo Coal Company
5731 State Hwy 13
Meeker, CO 81641

Prepared by:

Catherine McDonald
SeaCrest Group
500 S Arthur Ave. Suite 450
Louisville, Colorado 80027-3065
(303) 661-9324

October 11, 2024

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Chronic Toxicity Test Summary

Test:	7-day static renewal using <i>Ceriodaphnia dubia</i> 7-day static renewal using fathead minnow (<i>Pimephales promelas</i>)
Client:	Colowyo Coal Company
Test Procedure Followed:	<i>Ceriodaphnia dubia</i> : EPA/821/R-02-013. Method 1002.0 (2002) fathead minnow: EPA/821/R-02-013. Method 1000.0 (2002)
Sample Number:	524448.B
Dilution Water:	moderately hard laboratory reconstituted water
Test Organism Source:	SeaCrest Group
Reference Toxicant:	Sodium Chloride

Sample	Time of Collection	Date of Collection	Time of Receipt	Date of Receipt
Effluent 1	0710	10-01-2024	0822	10-02-2024
Effluent 2	0830	10-02-2024	0951	10-03-2024
Effluent 3	0915	10-03-2024	0950	10-04-2024

	<i>Ceriodaphnia dubia</i>	fathead minnow
Test Initiation Time	1430	1340
Test Initiation Date	10-02-2024	10-02-2024
Test Completion Time	1330	1240
Test Completion Date	10-08-2024	10-09-2024

Abstract with Results

Test Concentrations:	Control (0%), 20%, 40%, 60%, 80%, 100%
Number of Organisms/Concentration:	10 for <i>Ceriodaphnia dubia</i> 40 for fathead minnow
Replicates at each Concentration:	10 for <i>Ceriodaphnia dubia</i> 4 for fathead minnow

	<i>Ceriodaphnia dubia</i>	fathead minnow
Test vessel size/Exposure volume	30ml/15ml	500ml/200ml
Sub-lethal NOEL/IC25	20%/43.1%	100%/>100%
Pass/Fail Status	FAIL	PASS
Temperature Range (°C)	24.1 – 25.7	24.1 – 25.5
Dissolved Oxygen Range (mg/L)	6.8 – 8.5	2.5 – 7.5
pH Range	7.7 – 8.1	7.5 – 8.1
	Control (<i>Cerio</i>/FHM)	Effluent Sample
Hardness (mg/L as CaCO ₃)	92/86	904/1095/980
Alkalinity (mg/L as CaCO ₃)	57/60	569/528/1028
Total residual chlorine (mg/L)	<0.01	0.01/0.01/<0.01
Total ammonia (mg/L as NH ₃)	<0.03	0.63/0.91/0.79

INTRODUCTION

Biomonitoring provides an effective means by which the toxicity of discharges from municipal, industrial, and mining operations can be tested. Among the advantages of biomonitoring is the ability to test complex effluents containing a broad range of contaminants. Biomonitoring, when used in conjunction with chemical analyses, can generate data capable of identifying a much wider range of contaminants.

The Colorado Water Quality Control Division requires certain NPDES permittees to perform acute and/or chronic biomonitoring tests. The chronic test measures significant differences in lethality and in reproduction (*Ceriodaphnia dubia*) or growth (fathead minnow – *Pimephales promelas*) between control and effluent-exposed organisms.

The present report discusses the results of chronic biomonitoring tests conducted on effluent from the Colowyo Coal Company 010A discharge. These tests were conducted in accordance with EPA and State of Colorado procedures in October 2024.

MATERIALS AND METHODS

Sample Collection

Two or three gallons of the effluent were collected on three separate dates as specified in Permit CO-0045161. Samples were delivered chilled to the SeaCrest lab where they were held at 0-6°C. Chain of custody forms showing sample collection and laboratory arrival times are included (Appendix 1).

Dilution Water

Laboratory reconstituted water was used as both the dilution water source and the control for the tests. Reconstituted water for the *Ceriodaphnia dubia* test was produced by adding sodium bicarbonate, calcium sulfate, magnesium sulfate, potassium chloride, and sodium selenate to deionized water. Reconstituted water for the fathead minnow test was produced by adding sodium bicarbonate, calcium sulfate, magnesium sulfate, and potassium chloride to deionized water.

Test Organisms

The biomonitoring test used *Ceriodaphnia dubia*, cultured in the SeaCrest laboratory. The organisms are cultured in brood culture boards from which individual females are monitored for survival and reproduction for periods of up to two weeks. Neonates less than 24-hours old, released from third or subsequent broods of eight or more within an 8-hour period, are collected from the brood chambers and used in tests. The animals are fed daily with a mixture of Yeast, Cereal Leaves, and Trout Chow (YCT), produced in-house. This is supplemented with cultured green algae (*Selenastrum capricornutum*) provided by Aquatic Biosystems.

Less than one-day-old fathead minnow, cultured in the laboratory, were also used in the test. Adult fish are maintained in 10-gallon aquaria where females deposit their eggs on the under-surface of split PVC pipe sections. The eggs are collected daily and transferred to aerated containers where they hatch after three to four days. The larval fish are fed newly hatched brine shrimp (*Artemia* sp.) at least twice per day.

In-house organisms are tested monthly in a reference toxicant test using sodium chloride to monitor overall health and test reproducibility (Appendix 4).

Test Procedures

Upon receipt at the lab, samples were analyzed for alkalinity, ammonia, chlorine, conductivity, dissolved oxygen, hardness, and pH.

Methods used in chemical analysis

Alkalinity	EPA 310.2	Hach 8203	I-2030-85.2
Ammonia	SM4500-NH ₃ , C-E1997	ASTM D1426-08	
Chlorine	SM4500-Cl D	Hach 10026	
Conductivity	SM2510		
Dissolved Oxygen	SM4500-O	Electrode: G-2001	Winkler (QC): B-F-2001
Hardness	SM2340 B or C	Hach 8213	
pH	SM4500-H+ B-2000		

The test followed procedures in EPA³ and CDPHE⁴ guidelines. Exposure concentrations included control (0%), 20%, 40%, 60%, 80%, and 100% mixtures, diluted with moderately hard laboratory reconstituted water.

Individual *Ceriodaphnia dubia* were placed in 30ml plastic containers containing approximately 15ml of exposure medium. Ten replicates at each concentration were used. The animals were fed daily with the YCT mixture and an equal volume of the green algae (*Selenastrum capricornutum*). The exposure medium was changed daily in each container and the number of young released overnight were counted and recorded. Young were removed from the containers daily and discarded. Routine measurements were made each day of temperature, dissolved oxygen, and pH before and after the water changes.

Fathead minnow were exposed in 500ml plastic cups to which 250ml of media was replaced daily. Four replicates were used at each concentration. Ten fish, less than 24-hours old, were placed in each cup. The fish were monitored daily for survival and fed live brine shrimp at least twice per day. After seven days, the fish were removed from the cups, euthanized with isopropyl alcohol, and then placed in aluminum pans and dried in an oven for a minimum of six hours at 100°C. The pans were then weighed on a five-place analytical balance to determine the average dry weight of the fish from each replicate.

Data Analysis

Data from the tests were analyzed on a personal computer using the CETIS program (developed by Tidepool Scientific Software). Statistical tests used in the analyses are shown in Table 1. Test acceptability was determined using control survival and reproduction/growth criteria, concentration-response relationships, and percent minimum significant differences (USEPA ^{5,6}).

Table 1. Statistical methods used in testing for significant differences in test parameters.

Variance		Distribution		
Bartlett Equality of Variance Test		Shapiro-Wilk W Normality Test		
Statistical Difference				
Species	Survival	Growth	Reproduction	IC ₂₅
<i>Ceriodaphnia dubia</i>	Fisher Exact/Bonferroni-Holm Test	N/A	Steel Many-One Rank Sum Test	IC _p
fathead minnow	Steel Many-One Rank Sum Test	Dunnett Multiple Comparison Test	N/A	IC _p

RESULTS

Ceriodaphnia dubia Test Results

Test results for the *Ceriodaphnia dubia* are summarized in Table 2 and provided on the data sheets located in Appendix 2. Survival was 0% in the 100% effluent and ranged from 0% - 100% in the remaining effluent concentrations. Control survival was 100%. Statistically significant lethality was measured in the 60%, 80%, and 100% effluent concentrations when compared to the control. The NOEL (No Observed Effect Level) for lethality was 40% and the LC₂₅ (Lethal Concentration 25) for lethality was 50%.

Average number of neonates was 0.0 in the 100% effluent concentration and ranged from 0.2 – 31.6 in the remaining effluent concentrations. Average number of neonates in the control was 32.5 for statistical analyses and test acceptability criteria. Statistically significant differences in the number of neonates were found between the control and the 40%, 60%, 80% and 100% effluent concentrations. The NOEL for reproduction was 20% and the IC₂₅ (Inhibition Concentration 25) for reproduction was 43.1%.

Table 2. Summary of *Ceriodaphnia dubia* test results. An asterisk (*) denotes a statistically significant difference from the control.

Concentration	Percent Survival	Mean Neonates	Min.	Max.	Significant Difference	
					Lethality	Reprod.
Control (0%)	100	32.5	29	39		
20%	100	31.6	28	36		
40%	100	26.9	18	34		*
60%	50	10.8	0	28	*	*
80%	0	0.2	0	2	*	*
100%	0	0.0	0	0	*	*

Fathead Minnow Test Results

Fathead minnow results are summarized in Table 3 and are provided on data sheets in Appendix 3. Survival was 88% in the 100% effluent concentration and ranged from 98% – 100% in the remaining effluent concentrations. Control survival was 100%. No statistically significant lethality was measured in any effluent concentration when compared to the control. The NOEL for lethality was 100% and the LC₂₅ for lethality was >100%.

Average weight in the 100% effluent concentration was 0.410mg and ranged from 0.449mg – 0.518mg per individual in the remaining effluent concentrations. Average weight for the control fish was 0.415mg for statistical analyses and test acceptability criteria. No statistically significant differences for growth were measured in any effluent concentration when compared to the control. The NOEL for growth was 100% and the IC₂₅ for growth was >100%.

Table 3. Summary of fathead minnow test results. An asterisk (*) denotes a statistically significant difference from the control.

Concentration	Percent Survival	Average Weight (mg)	Min.	Max.	Significant Difference	
					Lethality	Growth
Control (0%)	100	0.415	0.365	0.464		
20%	98	0.453	0.390	0.508		
40%	98	0.498	0.483	0.530		
60%	100	0.518	0.422	0.601		
80%	98	0.449	0.392	0.503		
100%	88	0.410	0.346	0.515		

Test Acceptability

Acceptable control survival (80%) was achieved in both tests. Similarly, *Ceriodaphnia dubia* reproduction (average 15 neonates/organism) and fathead minnow growth (average 0.250mg/test container) in control organisms met required levels. PMSD was within the required limits for an acceptable test (Table 4).

Table 4. PMSD for chronic test parameters.

PMSD (% Minimum significant difference)	fathead minnow growth		<i>C. dubia</i> reproduction	
	Lower bound	Upper bound	Lower bound	Upper bound
	12	30	13	47
	22.3		19.2	


DISCUSSION

A failed test for this discharge occurs when there is an NOEL or IC₂₅ less than the IWC (Instream Waste Concentration) of 100%. The NOEL represents the highest effluent concentration at which no statistically significant effect is observed. The IC₂₅ represents an estimate of the effluent concentration that would cause a 25 percent reduction of a non-quantal biological measurement. A violation for this discharge occurs when both the NOEL and the IC₂₅ are less than the IWC. Since the *C. dubia* test species demonstrated statistically significant differences meeting these criteria, the discharge fails WET testing requirements for this sampling period.

REFERENCES

1. **Hach Chemical Company.** 2008. *Hach's Water Analysis Handbook. Fifth Edition.* Hach Chemical Company, Loveland, Colorado. Digital Medium.
2. **APHA/AWWA/WEF.** 1998. *Standard Methods for the Examination of Water and Wastewater.* 20th Edition. American Public Health Association, Washington, D.C.
3. **USEPA.** 2002. *Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms.* EPA-821-R-02-013. 335 pp.
4. **CDPHE (Colorado Department of Public Health and Environment).** 1998. *Laboratory Guidelines for Conducting Whole Effluent Toxicity Tests.* Water Quality Control Division.
5. **USEPA.** 2000. *Method of Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing* (40 CFR Part 136). EPA/821/B-00/004.
6. **USEPA.** 2000. *Understanding and Accounting for Method Variability in Whole Effluent Toxicity Applications under the National Pollutant Discharge Elimination System Program.* EPA/833/R-00/003.

Appendix 1 – Chain of Custody with Sample Receipt Forms



SEACREST GROUP
ENVIRONMENTAL SERVICES LABORATORY

CHAIN OF CUSTODY

500 S. Arthur Avenue, Unit 450 - Louisville, CO 80027
(303) 661.9324 - FAX (303) 661.9325

Client/Project Name: <u>Colowyo Coal Company</u>				Analysis (Check all applicable)																											
P. O./Project Number: <u>330381</u>				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	
Contact: <u>Tony Tranyan</u>																															
Address: <u>5731 HWY 13 MEEKER CO 81641</u>																															
Phone # <u>970 864 1232</u>																															
E-Mail: <u>TONY.TRANYAN@SEACRESTGROUP.COM</u>																															
Fax #																															
Report By: <input type="checkbox"/> Mail <input checked="" type="checkbox"/> PDF <input type="checkbox"/> FAX																															
Sample Location or ID: <u>010A</u>				Date: <u>10.1.24</u>		Time: <u>7:10 am</u>		Grab/Comp: <u>G</u>		Lab ID (Lab Use Only): <u>574448.B #1</u>																					

SeaCrest Group
Louisville, CO

Sample Receipt Form

Form #: 42
Effective: January 2024

Project # 524448.B

Sample #: 1

Date: 10/22/24

Initials: LJ

Samples Were:

1. FedEx UPS Courier

Hand Delivery (circle one)

Notes:

2. Chilled to Ship

Ambient Chilled

3. Cooler Received Broken or Leaking

Y N NA

Notes:

4. Sample Received Broken or Leaking

Y N

Notes:

5. Received Within 36hr Holding Time

Y N

Notes:

6. Aeration necessary

Y N

7. pH adjustment necessary

Y N

8. Sample Received at Temperature between 0-6° C .

Y N NA

Notes:

9. Description of Sample (Color, Odor, and/or Presence of Particulate Matter):

Effluent: no visible PM

Receiving: N/A

Presence of native species:

Y N

Lab #	Temp	D.O.	pH	Cond
52448.B #1	2.9	7.0	7.8	5260

Custody Seals:

1. Present on Outer Package

Y N

2. Unbroken on Outer Package

Y N NA

3. Present on Sample

Y N

4. Unbroken on Sample

Y N NA

Custody Documentation (Chain of Custody):

1. Present Upon Receipt of Sample

Y N

HW

500 S. Arthur Avenue, Unit 450 - Louisville, CO 80027
(303) 661.9324 - FAX (303) 661.9325

Client/Project Name: <u>Colonyo Coal Company</u> P. O./Project Number: <u>330381</u> Contact: <u>Tony Tennyson</u> Address: <u>5731 Hwy 13 MEeker, CO 81641</u> Phone # <u>970 824 1232</u> E-Mail: <u>tony.tennyson@restratco.com</u> Fax # _____ Sampler: <u>TF-4</u>				Analysis (Check all applicable)																											
Report By: <input type="checkbox"/> Mail <input checked="" type="checkbox"/> PDF <input type="checkbox"/> FAX				WET: Acute (Indicate Below)		WET: Chronic (Indicate Below)		WET: Accelerated (Indicate Below)		WET: PT/TIE/TRE (Indicate Below)																					
Sample Location or ID <u>010A</u>				Date <u>10.2.24</u>		Time <u>0830</u>		Grab/Comp <u>G</u>		Lab ID <small>(Lab Use Only)</small> <u>52448.0 #2</u>																					
												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	

SeaCrest Group
Louisville, CO

Sample Receipt Form

Form #: 42
Effective: January 2024

Project # 524448.B

Date: 100324

Samples Were:

1. FedEx UPS Courier

Notes:

Sample #: 524448.B #2

Initials: WB

Hand Delivery (circle one)

2. Chilled to Ship

Ambient Chilled

Y N NA

3. Cooler Received Broken or Leaking

Notes:

Y N

4. Sample Received Broken or Leaking

Notes:

Y N

5. Received Within 36hr Holding Time

Notes:

Y N

6. Aeration necessary

Y N

7. pH adjustment necessary

Y N NA

8. Sample Received at Temperature between 0-6° C .

Notes:

9. Description of Sample (Color, Odor, and/or Presence of Particulate Matter):

Effluent:

Receiving: N/A

Presence of native species:

Y N

Lab #	Temp	D.O.	pH	Cond
524448.B	3.3	8.2	7.9	5050
#2				

Custody Seals:

1. Present on Outer Package

Y N NA

2. Unbroken on Outer Package

Y N NA

3. Present on Sample

Y N

4. Unbroken on Sample

Custody Documentation (Chain of Custody):

1. Present Upon Receipt of Sample

Y N

Analysis (Check all applicable)

[illegible]

SeaCrest Group
Louisville, CO

Sample Receipt Form

Form #: 42
Effective: January 2024

Project # 524 448.B
Date: 10/04/24

Sample #: 3
Initials: AN

Samples Were:

1. FedEx UPS Courier

Hand Delivery (circle one)

Notes:

2. Chilled to Ship

Ambient Chilled

3. Cooler Received Broken or Leaking

Y N NA

Notes:

4. Sample Received Broken or Leaking

Y N

Notes:

5. Received Within 36hr Holding Time

Y N

Notes:

6. Aeration necessary

Y N

7. pH adjustment necessary

Y N

8. Sample Received at Temperature between 0-6°C .

Y N NA

Notes:

9. Description of Sample (Color, Odor, and/or Presence of Particulate Matter):

Effluent: no visible PM

Receiving: N/A

Presence of native species:

Y N

Lab #	Temp	D.O.	pH	Cond
<u>524448.B#3</u>	<u>4.9</u>	<u>7.1</u>	<u>7.7</u>	<u>4990</u>

Custody Seals:

1. Present on Outer Package
2. Unbroken on Outer Package
3. Present on Sample
4. Unbroken on Sample

Y N NA
Y N NA
Y N NA

Custody Documentation (Chain of Custody):

1. Present Upon Receipt of Sample

Y N

HN

Appendix 2 – Data Sheets for the Ceriodaphnia dubia Test

Client: Colowyo
Site: 010A

CO-0045161

SCG Project No.: 524448.B
Project: Quarterly WET

WET TEST REPORT FORM – CHRONIC

Permittee: Colowyo Coal Company
Permit No.: CO-0045161
Outfall: 010A – IWC: 100%
Test Type: Routine ☒ Accelerated ☐ Screen ☐
Test Species: *Ceriodaphnia dubia*

Test Start Time	Test Start Date	Test End Time	Test End Date
1430	10-02-2024	1330	10-08-2024

Test Results	Lethality/TCP3B	Reproduction/TKP3B
S code: NOEL	40%	20%
	FAIL	FAIL
P code: LC ₂₅ /IC ₂₅	50%	43.1%
	FAIL	FAIL
T code:	50%	43.1%

Test Summary

Measurements	Control (0%)	20%	40%	60%	80%	100%
Exposed organisms	10	10	10	10	10	10
Survival for day 1	10	10	10	9	9	9
Survival for day 2	10	10	10	9	6	4
Survival for day 3	10	10	10	5	3	2
Survival for day 4	10	10	10	5	1	2
Survival for day 5	10	10	10	5	0	0
Survival for day 6	10	10	10	5	0	0
Mean 3 Brood Total	32.5	31.6	26.9	10.8	0.2	0.0

Hardness (mg/L) – Receiving Water: N/A Effluent: 904/1095/980 Recon Water: 92
Alkalinity (mg/L) – Receiving Water: N/A Effluent: 569/528/1028 Recon Water: 57
Chlorine (mg/L) – Effluent: 0.01/0.01/<0.01 pH (initial/final) – Control: 8.0/7.9 100%: 7.9/7.8
Total Ammonia as NH₃ (mg/L) - Effluent: 0.63/0.91/0.79

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

If **NO**, list deviations from test specifications: N/A

Laboratory: SeaCrest Group

Comments:

Analyst's Name: Aurora Nelson, Lisa Sibrell, Daniela Thornton, and Ryan Belmont

Signature  Date October 11, 2024

Client: Colowyo
Site: 010A

CO-0045161

SCG Project No.: 524448.B
Project: Quarterly WET

SeaCrest Group
Louisville, CO

Ceriodaphnia Chronic Benchsheet

Form #: 101a
Effective: March 2023

Permittee: Colowyo Lab #: 524448.B Site: 010A
IWC %: 100 Template #: 5 Dilution Water: MH24-020 Sample Date: 100124
Age & Source: 100224 2178 Test Start: 100224-1430 Test End: 100824-1330

Test Conditions:

	0	1	2	3	4	5	6	7	Total
(C)	0	0	0	5	0	11	14		30
0	0	0	0	0	6	12	11		29
	0	0	0	0	7	11	13		31
	0	0	0	0	9	13	12		34
	0	0	0	5	10	0	15		30
	0	0	0	0	5	12	15		32
	0	0	0	0	6	14	17		37
	0	0	0	0	9	10	14		33
	0	0	0	0	6	16	17		39
	0	0	0	0	6	11	13		30
DO	6.8	7.3	6.8	6.3	7.3	7.3	6.8	7.0	
Temp	25.4	25.7	24.9	25.4	25.2	25.5	25.4	25.5	32.5
pH	8.0	7.9	7.9	7.9	7.9	8.0	7.8	7.9	
Cond	341	343	326	342	348	342			
(1)	0	0	0	6	0	10	16		32
20	0	0	0	0	5	11	12		28
	0	0	0	0	7	12	14		33
	0	0	0	0	7	14	15		36
	0	0	0	6	9	0	14		29
	0	0	0	5	0	11	17		33
	0	0	0	0	6	13	13		32
	0	0	0	0	6	12	15		33
	0	0	0	0	7	12	13		32
	0	0	0	0	6	8	14		28
DO	6.8	7.3	6.9	8.3	7.5	7.3	6.8	7.0	
Temp	25.3	25.7	24.9	25.4	25.2	25.5	25.4	25.5	31.6
pH	8.0	7.9	7.9	7.9	7.9	8.0	7.8	7.9	
Cond	344	343	340	342	348	342			
(2)	0	0	0	6	0	10	16		32
40	0	0	0	0	0	6	12		18
	0	0	0	0	5	11	10		26
	0	0	0	0	7	13	14		34
	0	0	0	5	8	0	13		26
	0	0	0	4	0	8	14		26
	0	0	0	0	7	10	13		30
	0	0	0	0	4	8	11		23
	0	0	0	0	8	11	11		30
	0	0	0	0	7	9	8		24
DO	6.9	7.3	7.0	8.4	7.7	7.3	6.9	7.0	
Temp	25.2	25.7	24.9	25.4	25.2	25.5	25.4	25.5	26.9
pH	7.9	7.9	7.9	7.9	7.9	7.9	8.0	8.2	
Cond	2470	2376	2290	2370	2390	2450			
(3)	0	0	0	0	4	8	12		24
60	0	0	0	0	0				0
	0	0	0	0	5	11	12		28
	0	0	0	0	0				0
	0	0	0	5	8	1	11		25
	0	0	0	0					0
	0	0	0	0	6	0	2		8
	0	0	0	0	0				0
	0	0	0	0	6	9	8		23
	0	0	0	0	0				0
DO	6.9	7.3	7.1	8.4	7.9	7.4	6.9	7.0	
Temp	25.2	25.7	24.9	25.4	25.2	25.5	25.4	25.5	10.8
pH	7.9	7.9	7.9	7.9	7.9	7.9	8.0	8.4	
Cond	3210	3300	3220	3240	3320	3330			

HW

Client: Colowyo
Site: 010A

CO-0045161

SCG Project No.: 524448.B
Project: Quarterly WET

SeaCrest Group
Louisville, CO

Ceriodaphnia Chronic Benchsheet

Form #: 101a
Effective: March 2023

	0	1	2	3	4	5	6	7	Total
(4)	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
DO	6.9	7.3	7.2	8.5	8.1	7.4	7.0	8.1	7.2
Temp	25.1	25.7	24.9	25.4	25.2	25.5	23.4	25.6	24.1
pH	7.9	8.0	7.9	8.0	7.9	7.9	7.7	7.8	7.8
Cond	4220	4030	4170	4140	4130	4240			
(5)	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
DO	6.9	7.3	7.3	8.5	8.2	7.4	7.1	8.1	7.3
Temp	25.0	25.7	24.9	25.4	25.2	25.5	23.4	25.6	24.1
pH	7.9	8.0	7.9	8.0	7.9	7.9	7.7	7.8	7.8
Cond	5090	4910	5050	4990	4850	5100			
Algae	ARS	ARS	ARS	ARS	ARS	ARS			
YCT	2407	2407	2407	2407	2407	2407			
H ₂ O	1	1	2	3	2	3			
Initials	AN	EB	EB	EB	EB	EB			
	Eff #1	Eff #2	Eff #3	Recon					
Hardness	904	1095	980	92					
Alkalinity	509	528	1028	57					
Chlorine	0.01	0.01	0.01	0.01					
Ammonia	0.03	0.01	0.01	0.03					

Exposure Chamber:
Total Capacity: 30mL
Total Solution Volume: 15mL

Feeding Schedule:
Fed daily
Food used: YCT, Algae

Units:
DO: mg/L
Temp: °C
pH: N/A
Cond: µS/cm³
Hardness: mg/L
Alkalinity: mg/L
Chlorine: mg/L
Ammonia: mg/L

Comments: mobile and active

x:y:z = board #:row:column

1	2	3	4	5	6	7	8	9	10
A3	A4	A5	A6	A7	A9	A10	B1	B4	B7

HW

CETIS Analytical Report

Report Date: 08 Oct-24 14:10 (p 1 of 1)
Test Code/ID: 524448CD / 06-9561-4839

Ceriodaphnia 7-d Survival and Reproduction Test

SeaCrest Group

Analysis ID: 04-7398-2927	Endpoint: 7d Survival Rate	CETIS Version: CETIS v2.1.5
Analyzed: 08 Oct-24 14:10	Analysis: STP 2xK Contingency Tables	Status Level: 1
Edit Date: 08 Oct-24 0:00	MD5 Hash: 4BAABE2186F826CDFE7687CADD008D	Editor ID: 008-269-892-1
Sample ID: 00-5766-2421	Code: 524448.B	Project: WET Quarterly Compliance Test (4Q)
Sample Date: 01 Oct-24	Material: POTW Effluent	Source: NPDES Permit # (XX99999999)
Receipt Date: 02 Oct-24	CAS (PC):	Station: 010A
Sample Age: 24h	Client: Colowyo	

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units
Untransformed	C > T	40	60	48.99	2.5

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-%	Test Stat	P-Type	P-Value	Decision(α:5%)
Dilution Water		20	1.0000	Exact	1.0000	Non-Significant Effect
		40	1.0000	Exact	1.0000	Non-Significant Effect
		60*	0.0163	Exact	0.0488	Significant Effect
		80*	0.0000	Exact	2.7E-05	Significant Effect
		100*	0.0000	Exact	2.7E-05	Significant Effect

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

7d Survival Rate Frequencies

Conc-%	Code	NR	R	NR + R	Prop NR	Prop R	%Effect
0	D	10	0	10	1.0000	0.0000	0.00%
20		10	0	10	1.0000	0.0000	0.00%
40		10	0	10	1.0000	0.0000	0.00%
60		5	5	10	0.5000	0.5000	50.00%
80		0	10	10	0.0000	1.0000	100.00%
100		0	10	10	0.0000	1.0000	100.00%

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
20		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
40		10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
60		10	0.5000	0.1230	0.8770	0.5000	0.0000	1.0000	0.1667	105.41%	50.00%
80		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%
100		10	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%

CETIS Analytical Report

Report Date: 08 Oct-24 14:10 (p 1 of 2)
Test Code/ID: 524448CD / 06-9561-4839

Ceriodaphnia 7-d Survival and Reproduction Test

SeaCrest Group

Analysis ID: 17-5742-8748	Endpoint: 7d Survival Rate	CETIS Version: CETIS v2.1.5
Analyzed: 08 Oct-24 14:10	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 08 Oct-24 0:00	MD5 Hash: 4BAABE2186F826CDFE7687CADD08D	Editor ID: 008-269-892-1
Sample ID: 00-5766-2421	Code: 524448.B	Project: WET Quarterly Compliance Test (4Q)
Sample Date: 01 Oct-24	Material: POTW Effluent	Source: NPDES Permit # (XX99999999)
Receipt Date: 02 Oct-24	CAS (PC):	Station: 010A
Sample Age: 24h	Client: Colowyo	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	716532	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
LC15	46	43.75	55	2.2	1.8	2.3
LC20	48	45	60	2.1	1.7	2.2
LC25	50	46.25	61.25	2	1.6	2.2
LC40	56	50	65	1.8	1.5	2
LC50	60	52.5	67.5	1.7	1.5	1.9

7d Survival Rate Summary

Calculated Variate(A/B)

Isotonic Variate

Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Effect	$\Sigma A/\Sigma B$	Mean	%Effect
0	D	10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
20		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
40		10	1.0000	1.0000	1.0000	1.0000	0.00%	0.00%	10/10	1.0000	0.00%
60		10	0.5000	0.5000	0.0000	1.0000	105.41%	50.00%	5/10	0.5000	50.00%
80		10	0.0000	0.0000	0.0000	0.0000	---	100.00%	0/10	0.0000	100.00%
100		10	0.0000	0.0000	0.0000	0.0000	---	100.00%	0/10	0.0000	100.00%

CETIS Analytical Report

Report Date: 08 Oct-24 14:10 (p 1 of 1)
Test Code/ID: 524448CD / 06-9561-4839

Ceriodaphnia 7-d Survival and Reproduction Test				SeaCrest Group	
Analysis ID: 03-9830-1192		Endpoint: Reproduction		CETIS Version: CETIS v2.1.5	
Analyzed: 08 Oct-24 14:09		Analysis: Nonparametric-Control vs Treatments		Status Level: 1	
Edit Date: 08 Oct-24 0:00		MD5 Hash: F7F784A37D5F1EA7466E857715307904		Editor ID: 008-269-892-1	
Sample ID: 00-5766-2421		Code: 524448.B		Project: WET Quarterly Compliance Test (4Q)	
Sample Date: 01 Oct-24		Material: POTW Effluent		Source: NPDES Permit # (XX99999999)	
Receipt Date: 02 Oct-24		CAS (PC):		Station: 010A	
Sample Age: 24h		Client: Colowyo			

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	Tox Units	MSDu	PMSD
Untransformed	C > T	20	40	28.28	5	6.239	19.20%

Steel Many-One Rank Sum Test

Control	vs	Conc.-%	df	Test Stat	Critical	Ties	P-Type	P-Value	Decision(α:5%)
Dilution Water		20	18	99.5	76	3	CDF	0.6386	Non-Significant Effect
		40*	18	73	76	3	CDF	0.0265	Significant Effect
		60*	18	55	76	0	CDF	0.0003	Significant Effect
		80*	18	55	76	0	CDF	0.0003	Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	32.5	15	>>	Yes	Passes Criteria
PMSD	0.192	0.13	0.47	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	8143	2035.75	4	51.67	<1.0E-05	Significant Effect
Error	1773	39.4	45			
Total	9916		49			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	59.12	13.28	<1.0E-05	Unequal Variances
Distribution	Shapiro-Wilk W Normality Test	0.9081	0.9367	0.0009	Non-Normal Distribution

Reproduction Summary

Conc.-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	10	32.5	30.13	34.87	31.5	29	39	1.046	10.18%	0.00%
20		10	31.6	29.78	33.42	32	28	36	0.8055	8.06%	2.77%
40		10	26.9	23.52	30.28	26	18	34	1.494	17.56%	17.23%
60		10	10.8	1.841	19.76	4	0	28	3.96	115.96%	66.77%
80		10	0.2	-0.2524	0.6524	0	0	2	0.2	316.23%	99.38%
100		10	0	0	0	0	0	0	0	---	100.00%

CETIS Analytical Report

Report Date: 08 Oct-24 14:10 (p 2 of 2)
Test Code/ID: 524448CD / 06-9561-4839

Ceriodaphnia 7-d Survival and Reproduction Test

SeaCrest Group

Analysis ID: 19-7375-3454	Endpoint: Reproduction	CETIS Version: CETIS v2.1.5
Analyzed: 08 Oct-24 14:10	Analysis: Linear Interpolation (ICPIN)	Status Level: 1
Edit Date: 08 Oct-24 0:00	MD5 Hash: F7F784A37D5F1EA7466E857715307904	Editor ID: 008-269-892-1
Sample ID: 00-5766-2421	Code: 524448.B	Project: WET Quarterly Compliance Test (4Q)
Sample Date: 01 Oct-24	Material: POTW Effluent	Source: NPDES Permit # (XX999999999)
Receipt Date: 02 Oct-24	CAS (PC):	Station: 010A
Sample Age: 24h	Client: Colowyo	

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	169734	1000	Yes	Two-Point Interpolation

Test Acceptability Criteria

TAC Limits

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	32.5	15	>>	Yes	Passes Criteria

Point Estimates

Level	%	95% LCL	95% UCL	Tox Units	95% LCL	95% UCL
IC15	36.91	27.12	42.34	2.7	2.4	3.7
IC20	41.12	32.54	44.42	2.4	2.3	3.1
IC25	43.14	37.36	46.83	2.3	2.1	2.7
IC40	49.19	45.28	56.89	2	1.8	2.2
IC50	53.23	48.68	62.03	1.9	1.6	2.1

Reproduction Summary

Calculated Variate

Isotonic Variate

Conc-%	Code	Count	Mean	Median	Min	Max	CV%	%Effect	Mean	%Effect
0	D	10	32.5	31.5	29	39	10.18%	0.00%	32.5	0.00%
20		10	31.6	32	28	36	8.06%	2.77%	31.6	2.77%
40		10	26.9	26	18	34	17.56%	17.23%	26.9	17.23%
60		10	10.8	4	0	28	115.96%	66.77%	10.8	66.77%
80		10	0.2	0	0	2	316.23%	99.38%	0.2	99.38%
100		10	0	0	0	0	---	100.00%	0	100.00%

Appendix 3 – Data Sheets for the Fathead Minnow Test

Client: Colowyo
Site: 010A

CO-0045161

SCG Project No.: 524448.B
Project: Quarterly WET

WET TEST REPORT FORM – CHRONIC

Permittee: Colowyo Coal Company

Permit No.: CO-0045161

Outfall: 010A – IWC: 100%

Test Type: Routine ☒ Accelerated ☐ Screen ☐

Test Species: Fathead minnow

Test Start Time	Test Start Date	Test End Time	Test End Date
1340	10-02-2024	1240	10-09-2024

Test Results	Lethality/TCP6C	Growth/TKP6C
S code: NOEL	100%	100%
	PASS	PASS
P code: LC ₂₅ /IC ₂₅	>100%	>100%
	PASS	PASS
T code:	>100%	>100%

Test Summary

Measurements	Control (0%)	20%	40%	60%	80%	100%
Exposed organisms	40	40	40	40	40	40
Survival for day 1	40	40	40	40	40	38
Survival for day 2	40	40	40	40	39	36
Survival for day 3	40	40	39	40	39	36
Survival for day 4	40	40	39	40	39	35
Survival for day 5	40	40	39	40	39	35
Survival for day 6	40	39	39	40	39	35
Survival for day 7	40	39	39	40	39	35
Mean Dry Wt. (mg)	0.415	0.453	0.498	0.518	0.449	0.410

Hardness (mg/L) – Receiving Water: N/A

Effluent: 904/1095/980

Recon Water: 86

Alkalinity (mg/L) – Receiving Water: N/A

Effluent: 569/528/1028

Recon Water: 60

Chlorine (mg/L) – Effluent: 0.01/0.01<0.01

pH (initial/final) – Control: 8.1/7.6

100%: 7.8/8.0

Total Ammonia as NH₃ (mg/L) - Effluent: 0.63/0.91/0.79

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

If **NO**, list deviations from test specifications: D.O. fell below 4.0 mg/L in overnight test chambers

Laboratory: SeaCrest Group

Comments:

Analyst's Name: Lisa Sibrell, Aurora Nelson, Daniela Thornton, Haley West, and Catherine McDonald

Signature 

Date October 11, 2024

Fathead Minnow Chronic Benchsheet

Client:		Site:		Lab #:		Sample Date:		IWC:		Dilution H ₂ O:	
Test Start		Test End		Species Info		Template:		FHM		Test Conditions:	
Conc	Read	0	1	2	3	4	5	6	7	8	9
0	DO	6.8	5.4	7.1	5.9	7.3	5.7	7.4	5.7	7.5	4.0
	Temp	25.3	25.5	24.1	24.6	24.1	24.1	25.0	24.1	24.3	10
	pH	8.1	7.8	8.0	7.6	8.1	7.8	8.1	7.8	8.0	10
	Cond	338	255	354	324	518	318	604	10	10	10
	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
20	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
	Temp	25.3	25.4	24.1	24.6	24.1	24.1	25.0	24.1	24.3	10
	pH	8.1	7.8	8.0	7.6	8.1	7.8	8.1	7.8	8.0	10
	Cond	338	255	354	324	518	318	604	10	10	10
	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
40	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
	Temp	25.3	25.4	24.1	24.6	24.1	24.1	25.0	24.1	24.3	10
	pH	8.1	7.8	8.0	7.6	8.1	7.8	8.1	7.8	8.0	10
	Cond	338	255	354	324	518	318	604	10	10	10
	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
60	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
	Temp	25.3	25.4	24.1	24.6	24.1	24.1	25.0	24.1	24.3	10
	pH	8.1	7.8	8.0	7.6	8.1	7.8	8.1	7.8	8.0	10
	Cond	338	255	354	324	518	318	604	10	10	10
	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
80	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
	Temp	25.3	25.4	24.1	24.6	24.1	24.1	25.0	24.1	24.3	10
	pH	8.1	7.8	8.0	7.6	8.1	7.8	8.1	7.8	8.0	10
	Cond	338	255	354	324	518	318	604	10	10	10
	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
100	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10
	Temp	25.3	25.4	24.1	24.6	24.1	24.1	25.0	24.1	24.3	10
	pH	8.1	7.8	8.0	7.6	8.1	7.8	8.1	7.8	8.0	10
	Cond	338	255	354	324	518	318	604	10	10	10
	DO	6.8	5.9	7.1	5.8	7.3	5.2	7.1	4.5	7.1	10

CETIS Analytical Report

Report Date: 10 Oct-24 10:46 (p 1 of 3)
Test Code/ID: 524448.B / 01-2114-6089

Fathead Minnow 7-d Larval Survival and Growth Test					SeaCrest Group
Analysis ID:	21-0189-2735	Endpoint:	7d Survival Rate	CETIS Version:	CETISv1.9.6
Analyzed:	10 Oct-24 10:46	Analysis:	Nonparametric-Control vs Treatments	Status Level:	1
Batch ID:	20-5858-2287	Test Type:	Growth-Survival (7d)	Analyst:	Lab Tech
Start Date:	02 Oct-24	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Reconstituted Water
Ending Date:	09 Oct-24	Species:	Pimephales promelas	Brine:	Not Applicable
Test Length:	7d 0h	Taxon:	Actinopterygii	Source:	In-House Culture
					Age:
Sample ID:	05-9063-5492	Code:	524448.B	Project:	WET Quarterly Compliance Test (4Q)
Sample Date:	01 Oct-24	Material:	POTW Effluent	Source:	NPDES Permit # (XX99999999)
Receipt Date:	02 Oct-24	CAS (PC):		Station:	001A
Sample Age:	24h	Client:	Colowyo		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	C > T	100	>100	n/a	1	9.57%

Steel Many-One Rank Sum Test

Control	vs	Conc-%	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Dilution Water		20	16	10	1	6	CDF	0.6105	Non-Significant Effect
		40	16	10	1	6	CDF	0.6105	Non-Significant Effect
		60	18	10	1	6	CDF	0.8333	Non-Significant Effect
		80	16	10	1	6	CDF	0.6105	Non-Significant Effect
		100	12	10	1	6	CDF	0.1424	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0957229	0.0191446	5	2.289	0.0893	Non-Significant Effect
Error	0.150572	0.0083651	18			
Total	0.246295		23			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test				Indeterminate
Distribution	Shapiro-Wilk W Normality Test	0.7896	0.884	2.0E-04	Non-Normal Distribution

7d Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
20		4	0.9750	0.8954	1.0000	1.0000	0.9000	1.0000	0.0250	5.13%	2.50%
40		4	0.9750	0.8954	1.0000	1.0000	0.9000	1.0000	0.0250	5.13%	2.50%
60		4	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
80		4	0.9750	0.8954	1.0000	1.0000	0.9000	1.0000	0.0250	5.13%	2.50%
100		4	0.8750	0.6748	1.0000	0.9000	0.7000	1.0000	0.0629	14.38%	12.50%

Angular (Corrected) Transformed Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	4	1.412	1.412	1.412	1.412	1.412	1.412	0	0.00%	0.00%
20		4	1.371	1.242	1.501	1.412	1.249	1.412	0.04074	5.94%	2.89%
40		4	1.371	1.242	1.501	1.412	1.249	1.412	0.04074	5.94%	2.89%
60		4	1.412	1.412	1.412	1.412	1.412	1.412	0	0.00%	0.00%
80		4	1.371	1.242	1.501	1.412	1.249	1.412	0.04074	5.94%	2.89%
100		4	1.225	0.9485	1.502	1.249	0.9912	1.412	0.08699	14.20%	13.22%

CETIS Analytical Report

Report Date: 10 Oct-24 10:46 (p 1 of 2)
Test Code/ID: 524448.B / 01-2114-6089

Fathead Minnow 7-d Larval Survival and Growth Test				SeaCrest Group	
Analysis ID: 12-8816-0405		Endpoint: 7d Survival Rate		CETIS Version: CETISv1.9.6	
Analyzed: 10 Oct-24 10:46		Analysis: Linear Interpolation (ICPIN)		Status Level: 1	
Batch ID: 20-5858-2287		Test Type: Growth-Survival (7d)		Analyst: Lab Tech	
Start Date: 02 Oct-24		Protocol: EPA/821/R-02-013 (2002)		Diluent: Reconstituted Water	
Ending Date: 09 Oct-24		Species: Pimephales promelas		Brine: Not Applicable	
Test Length: 7d 0h		Taxon: Actinopterygii		Source: In-House Culture Age:	
Sample ID: 05-9063-5492		Code: 524448.B		Project: WET Quarterly Compliance Test (4Q)	
Sample Date: 01 Oct-24		Material: POTW Effluent		Source: NPDES Permit # (XX99999999)	
Receipt Date: 02 Oct-24		CAS (PC):		Station: 001A	
Sample Age: 24h		Client: Colowyo			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1264723	1000	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
LC5	85	63.29	n/a	1.176	n/a	1.58
LC10	95	81.67	n/a	1.053	n/a	1.224
LC15	>100	n/a	n/a	<1	n/a	n/a
LC20	>100	n/a	n/a	<1	n/a	n/a
LC25	>100	n/a	n/a	<1	n/a	n/a
LC40	>100	n/a	n/a	<1	n/a	n/a
LC50	>100	n/a	n/a	<1	n/a	n/a

7d Survival Rate Summary			Calculated Variate(A/B)							Isotonic Variate	
Conc-%	Code	Count	Mean	Min	Max	Std Dev	CV%	%Effect	A/B	Mean	%Effect
0	D	4	1.0000	1.0000	1.0000	0.0000	0.00%	0.0%	40/40	1	0.0%
20		4	0.9750	0.9000	1.0000	0.0500	5.13%	2.5%	39/40	0.9833	1.67%
40		4	0.9750	0.9000	1.0000	0.0500	5.13%	2.5%	39/40	0.9833	1.67%
60		4	1.0000	1.0000	1.0000	0.0000	0.00%	0.0%	40/40	0.9833	1.67%
80		4	0.9750	0.9000	1.0000	0.0500	5.13%	2.5%	39/40	0.975	2.5%
100		4	0.8750	0.7000	1.0000	0.1258	14.38%	12.5%	35/40	0.875	12.5%

7d Survival Rate Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	1.0000	1.0000	1.0000	1.0000
20		1.0000	1.0000	1.0000	0.9000
40		0.9000	1.0000	1.0000	1.0000
60		1.0000	1.0000	1.0000	1.0000
80		0.9000	1.0000	1.0000	1.0000
100		1.0000	0.9000	0.7000	0.9000

CETIS Analytical Report

Report Date: 10 Oct-24 10:46 (p 3 of 3)
Test Code/ID: 524448.B / 01-2114-6089

Fathead Minnow 7-d Larval Survival and Growth Test					SeaCrest Group
Analysis ID:	07-2568-4247	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.9.6
Analyzed:	10 Oct-24 10:46	Analysis:	Parametric-Control vs Treatments	Status Level:	1
Batch ID:	20-5858-2287	Test Type:	Growth-Survival (7d)	Analyst:	Lab Tech
Start Date:	02 Oct-24	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Reconstituted Water
Ending Date:	09 Oct-24	Species:	Pimephales promelas	Brine:	Not Applicable
Test Length:	7d 0h	Taxon:	Actinopterygii	Source:	In-House Culture
					Age:
Sample ID:	05-9063-5492	Code:	524448.B	Project:	WET Quarterly Compliance Test (4Q)
Sample Date:	01 Oct-24	Material:	POTW Effluent	Source:	NPDES Permit # (XX99999999)
Receipt Date:	02 Oct-24	CAS (PC):		Station:	001A
Sample Age:	24h	Client:	Colowyo		

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	C > T	100	>100	n/a	1	22.31%

Dunnnett Multiple Comparison Test

Control	vs	Conc-%	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Dilution Water		20	-0.9808	2.407	0.093	6	CDF	0.9818	Non-Significant Effect
		40	-2.15	2.407	0.093	6	CDF	0.9994	Non-Significant Effect
		60	-2.676	2.407	0.093	6	CDF	0.9999	Non-Significant Effect
		80	-0.8769	2.407	0.093	6	CDF	0.9761	Non-Significant Effect
		100	0.13	2.407	0.093	6	CDF	0.7922	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0377641	0.0075528	5	2.549	0.0651	Non-Significant Effect
Error	0.0533258	0.0029625	18			
Total	0.0910899		23			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	4.223	15.09	0.5178	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.9807	0.884	0.9092	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	D	4	0.4153	0.3487	0.4818	0.416	0.365	0.464	0.0209	10.07%	0.00%
20		4	0.453	0.3732	0.5328	0.457	0.39	0.508	0.02506	11.06%	-9.09%
40		4	0.498	0.4635	0.5325	0.4895	0.483	0.53	0.01083	4.35%	-19.93%
60		4	0.5183	0.4013	0.6352	0.525	0.422	0.601	0.03675	14.18%	-24.80%
80		4	0.449	0.3721	0.5259	0.4505	0.392	0.503	0.02417	10.77%	-8.13%
100		4	0.4102	0.2943	0.5262	0.39	0.346	0.515	0.03643	17.76%	1.21%

Mean Dry Biomass-mg Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	0.365	0.429	0.464	0.403
20		0.473	0.508	0.441	0.39
40		0.483	0.487	0.53	0.492
60		0.601	0.523	0.527	0.422
80		0.43	0.471	0.503	0.392
100		0.515	0.346	0.39	0.39

CETIS Analytical Report

Report Date: 10 Oct-24 10:46 (p 2 of 2)
Test Code/ID: 524448.B / 01-2114-6089

Fathead Minnow 7-d Larval Survival and Growth Test					SeaCrest Group
Analysis ID:	15-9384-3588	Endpoint:	Mean Dry Biomass-mg	CETIS Version:	CETISv1.9.6
Analyzed:	10 Oct-24 10:46	Analysis:	Linear Interpolation (ICPIN)	Status Level:	1
Batch ID:	20-5858-2287	Test Type:	Growth-Survival (7d)	Analyst:	Lab Tech
Start Date:	02 Oct-24	Protocol:	EPA/821/R-02-013 (2002)	Diluent:	Reconstituted Water
Ending Date:	09 Oct-24	Species:	Pimephales promelas	Brine:	Not Applicable
Test Length:	7d 0h	Taxon:	Actinopterygii	Source:	In-House Culture
					Age:
Sample ID:	05-9063-5492	Code:	524448.B	Project:	WET Quarterly Compliance Test (4Q)
Sample Date:	01 Oct-24	Material:	POTW Effluent	Source:	NPDES Permit # (XX99999999)
Receipt Date:	02 Oct-24	CAS (PC):		Station:	001A
Sample Age:	24h	Client:	Colowyo		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1785792	1000	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	80.74	59.23	n/a	1.239	n/a	1.688
IC10	92.9	63.95	n/a	1.076	n/a	1.564
IC15	>100	n/a	n/a	<1	n/a	n/a
IC20	>100	n/a	n/a	<1	n/a	n/a
IC25	>100	n/a	n/a	<1	n/a	n/a
IC40	>100	n/a	n/a	<1	n/a	n/a
IC50	>100	n/a	n/a	<1	n/a	n/a

Mean Dry Biomass-mg Summary			Calculated Variate						Isotonic Variate	
Conc-%	Code	Count	Mean	Min	Max	Std Dev	CV%	%Effect	Mean	%Effect
0	D	4	0.4153	0.365	0.464	0.0418	10.07%	0.0%	0.4711	0.0%
20		4	0.453	0.39	0.508	0.05012	11.06%	-9.09%	0.4711	0.0%
40		4	0.498	0.483	0.53	0.02165	4.35%	-19.93%	0.4711	0.0%
60		4	0.5183	0.422	0.601	0.07351	14.18%	-24.8%	0.4711	0.0%
80		4	0.449	0.392	0.503	0.04834	10.77%	-8.13%	0.449	4.7%
100		4	0.4102	0.346	0.515	0.07285	17.76%	1.21%	0.4102	12.92%

Mean Dry Biomass-mg Detail

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4
0	D	0.365	0.429	0.464	0.403
20		0.473	0.508	0.441	0.39
40		0.483	0.487	0.53	0.492
60		0.601	0.523	0.527	0.422
80		0.43	0.471	0.503	0.392
100		0.515	0.346	0.39	0.39

Appendix 4 – QA/QC and Reference Toxicant Test Chart

Quality Assurance Check List – Chronic Whole Effluent Toxicity Test

Client:	Colowyo Coal Company
SeaCrest Sample No:	524448.B
Species Tested:	<i>Ceriodaphnia dubia</i> and fathead minnow

Sample Dates	Start Date of Test (<i>Ceriodaphnia dubia</i>)	Start Date of Test (fathead minnow)
10-01-2024		
10-02-2024		
10-03-2024	10-02-2024	10-02-2024

Sample received in lab properly preserved (0-6°C)?	Y
Sample received at laboratory within 36 hours of collection?	Y
Sample delivered on ice or equivalent?	Y
Test initiated within 36-hours of collection?	Y
Test protocol conforms to CDPHE guidelines (<i>Ceriodaphnia dubia</i>)?	Y
Test protocol conforms to CDPHE guidelines (fathead minnow)?	Y
Average test temp. $\pm 1^{\circ}\text{C}$ (<i>Ceriodaphnia dubia</i>)?	Y
Average test temp. $\pm 1^{\circ}\text{C}$ (fathead minnow)?	Y
DO level $\geq 4.0\text{mg/L}$; no super-saturation (<i>Ceriodaphnia dubia</i>)?	Y
DO level $\geq 4.0\text{mg/L}$; no super-saturation (fathead minnow)?	Y
Survival in control $\geq 80\%$ (<i>Ceriodaphnia dubia</i>)?	Y
Survival in control $\geq 80\%$ (fathead minnow)?	Y
<i>Ceriodaphnia dubia</i> neonates <24-hours old?	Y
Fathead minnow larvae <24-hours old?	Y
Appropriate reference toxicity test conducted?	Y
Reference toxicity test results within the confidence limits for the lab?	Y

Author Cat M. Q. Q. Date October 11, 2024
Position: Laboratory Manager

Quality Control Kalyn West Date October 11, 2024

METHOD QC

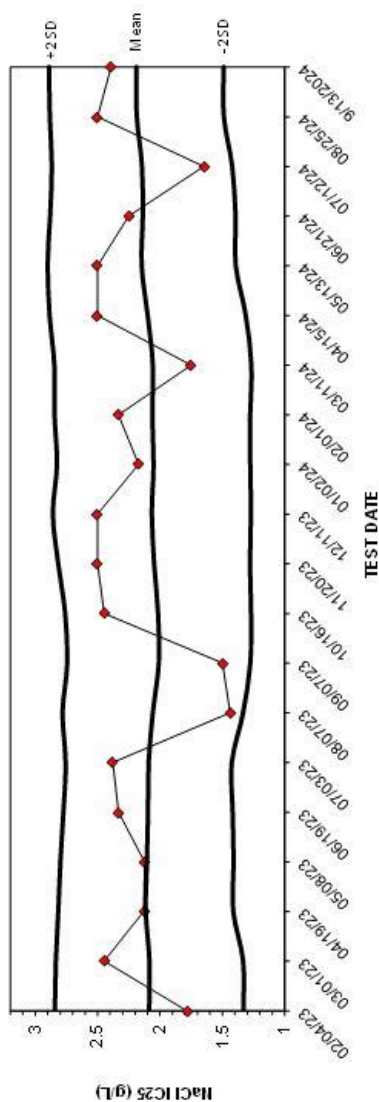


Method	Analyte	Date	LCS (rec)	%REC	%RPD	QC LIMITS
2320 B	Alkalinity - Total	9/3/2024	100.80%	97.15%	-0.96%	± 5.00%
2320 B	Alkalinity - Total	9/12/2024	102.40%	95.96%	1.00%	± 5.00%
2320 B	Alkalinity - Total	9/17/2024	100.80%	97.45%	-1.51%	± 5.00%
2320 B	Alkalinity - Total	9/26/2024	97.60%	98.88%	-1.05%	± 5.00%
4500 NH ₃ D	Ammonia	9/5/2024	91.60%	94.70%	-0.90%	± 10.00%
4500 NH ₃ D	Ammonia	9/12/2024	97.80%	97.22%	4.26%	± 10.00%
4500 NH ₃ D	Ammonia	9/19/2024	96.60%	97.90%	1.28%	± 10.00%
4500 NH ₃ D	Ammonia	9/26/2024	96.60%	98.11%	-4.59%	± 10.00%
4500 Cl D	Chlorine	9/26/2024	96.55%	96.43%	0.00%	± 5.00, ± 20.00%
2340 B	Hardness - Total	9/5/2024	103.51%	100.99%	1.78%	± 5.00%
2340 B	Hardness - Total	9/12/2024	98.20%	101.00%	0.00%	± 5.00%
2340 B	Hardness - Total	9/19/2024	102.00%	100.00%	2.60%	± 5.00%
2340 B	Hardness - Total	9/26/2024	100.00%	99.05%	1.20%	± 5.00%
			LCS (rec)	%REC M1	%REC M2	QC Limits
4500 O	DO - Winkler	9/6/2024	N/A	98.55%	98.55%	± 5.00%
4500 O	DO - Winkler	9/13/2024	N/A	101.40%	97.30%	± 5.00%
4500 O	DO - Winkler	9/20/2024	N/A	98.63%	98.61%	± 5.00%
4500 O	DO - Winkler	9/27/2024	N/A	100.00%	96.97%	± 5.00%
			Blank	%REC MR S	%RPD	QC Limits
2540 D	Suspended Solids (TTL)	9/25/2024	100.00%	95.81%	0.00%	± 15%
2540 C	Dissolved Solids (TTL)	9/27/2024	100.00%	114.00%	0.00%	± 15%

Signature: Catrina D. Id
Date: October 1st, 2024

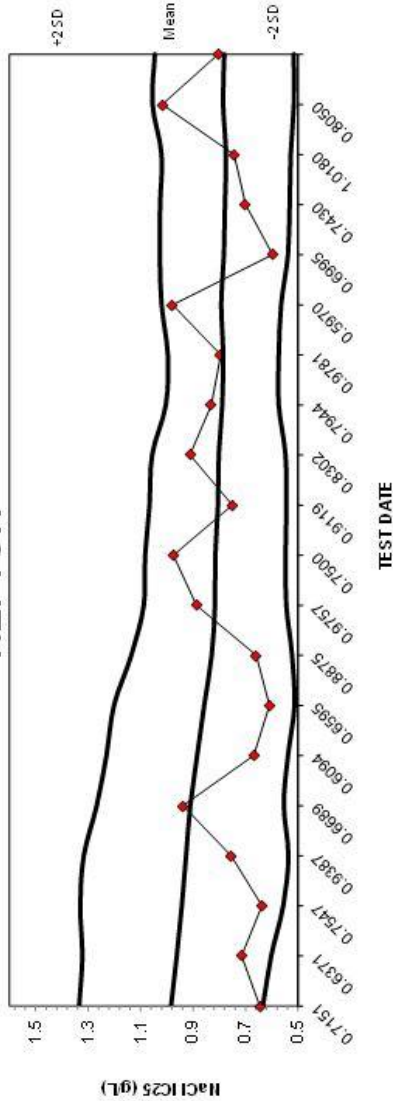
Signature: Haley Went
Date: October 1, 2024

CERIODAPHNIA SURVIVAL LC25 NaCl REFTOX



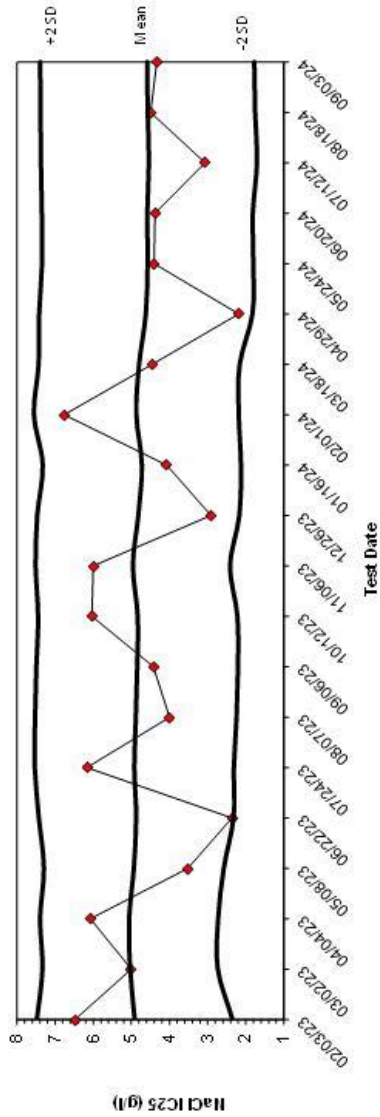
Date	LC25	Mean	-2 SD	+2 SD
02/04/23	1.7860	2.0869	1.3307	2.8430
03/01/23	2.4480	2.0844	1.3336	2.8352
04/19/23	2.1300	2.1144	1.4129	2.8158
05/08/23	2.1250	2.1045	1.4102	2.7988
06/19/23	2.3330	2.0965	1.4176	2.7755
07/03/23	2.3780	2.0907	1.4243	2.7571
08/07/23	1.4375	2.0580	1.3336	2.7824
09/07/23	1.5000	2.0104	1.2766	2.7441
10/16/23	2.4480	2.0158	1.2703	2.7613
11/20/23	2.5000	2.0476	1.2784	2.8168
12/11/23	2.5000	2.0655	1.2717	2.8592
01/02/24	2.1720	2.0518	1.2767	2.8269
02/01/24	2.3330	2.0617	1.2774	2.8460
03/11/24	1.7500	2.0578	1.2678	2.8477
04/15/24	2.5000	2.0995	1.3131	2.8858
05/13/24	2.5000	2.1471	1.3927	2.9014
06/21/24	2.2500	2.1378	1.3941	2.8816
07/12/24	1.6500	2.1444	1.4215	2.8672
08/25/24	2.5000	2.1860	1.4885	2.8836
9/13/2024	2.3930	2.1889	1.4883	2.8895

CERIODAPHNIA REPRODUCTION IC25 NaCl REFTOX



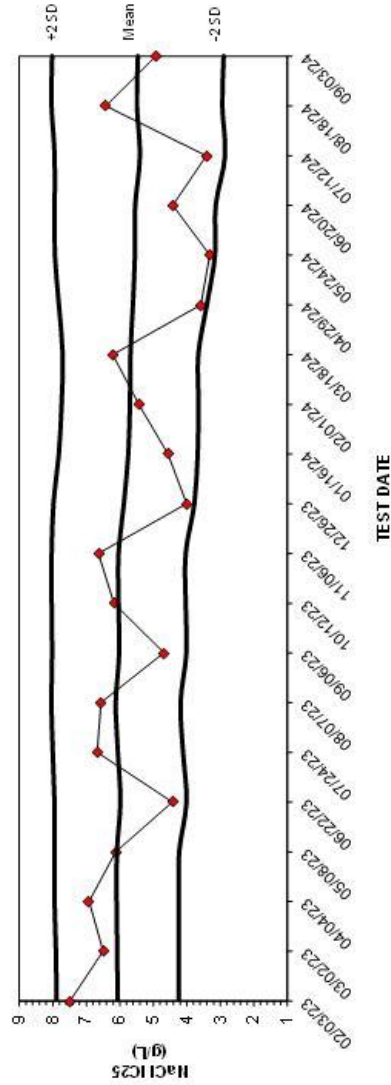
Date	IC25	Mean	-2 SD	+2 SD
02/04/23	0.6458	0.9841	0.6340	1.3342
3/1/2023	0.7151	0.9621	0.6020	1.3221
04/19/23	0.6371	0.9431	0.5562	1.3300
05/08/23	0.7547	0.9267	0.5369	1.3165
06/19/23	0.9387	0.9105	0.5540	1.2670
07/03/23	0.6689	0.8843	0.5384	1.2302
08/07/23	0.6094	0.8575	0.5136	1.2014
09/07/23	0.6595	0.8290	0.5226	1.1353
10/16/23	0.8875	0.8164	0.5450	1.0878
11/20/23	0.9757	0.8150	0.5474	1.0826
12/11/23	0.7500	0.8049	0.5440	1.0658
01/02/24	0.9119	0.8019	0.5477	1.0560
02/01/24	0.8302	0.7888	0.5736	1.0040
03/11/24	0.7944	0.7848	0.5734	0.9962
04/15/24	0.9781	0.7923	0.5644	1.0202
05/13/24	0.5970	0.7824	0.5384	1.0265
06/21/24	0.6995	0.7784	0.5315	1.0252
07/12/24	0.7430	0.7741	0.5279	1.0202
08/25/24	1.0180	0.7853	0.5160	1.0545
09/13/24	0.8050	0.7810	0.5161	1.0458

FHM SURVIVAL LC25 NaCl REFTOX



Date	IC25	Mean	-2 SD	+2 SD
02/03/23	6.4800	4.9171	2.3524	7.4818
03/02/23	5.0000	5.0364	2.7367	7.3361
04/04/23	6.0800	5.0628	2.7278	7.3978
05/08/23	3.5230	4.9385	2.5790	7.2979
06/22/23	2.3600	4.8775	2.3230	7.4321
07/24/23	6.1696	4.9250	2.3130	7.5370
08/07/23	4.0000	4.8853	2.2436	7.5269
09/06/23	4.4240	4.8500	2.2052	7.4948
10/12/23	6.0360	4.8354	2.2221	7.4487
11/06/23	6.0000	4.9627	2.4111	7.5142
12/26/23	2.9120	4.8223	2.1721	7.4725
01/16/24	4.0800	4.7287	2.1284	7.3289
02/01/24	6.7670	4.8732	2.1868	7.5596
03/18/24	4.4550	4.7999	2.1625	7.4374
04/29/24	2.1900	4.6245	1.8268	7.4222
05/24/24	4.4090	4.5749	1.8037	7.3461
06/20/24	4.3800	4.5839	1.8168	7.3510
07/12/24	3.0670	4.5415	1.7090	7.3739
08/18/24	4.5000	4.5714	1.7560	7.3867
09/03/24	4.3333	4.5865	1.7805	7.3926

FHM GROWTH IC25 NaCl REFTOX



Date	IC25	Mean	-2 SD	+2 SD
02/03/23	7.4870	6.0624	4.2424	7.8824
03/02/23	6.5000	6.0758	4.2468	7.9047
04/04/23	6.9180	6.0931	4.2384	7.9479
05/08/23	6.1200	6.0879	4.2341	7.9416
06/22/23	4.4340	5.9816	4.0146	7.9487
07/24/23	6.6760	6.0591	4.1185	7.9998
08/07/23	6.5670	6.1170	4.1925	8.0415
09/06/23	4.6810	6.0194	4.0192	8.0196
10/12/23	6.1750	6.0363	4.0372	8.0354
11/06/23	6.6360	6.0352	4.0375	8.0330
12/26/23	4.0036	5.8797	3.7796	7.9799
01/16/24	4.5690	5.7497	3.6808	7.8186
02/01/24	5.4310	5.6958	3.6572	7.7345
03/18/24	6.2100	5.8820	3.6624	7.7017
04/29/24	3.5807	5.6121	3.4072	7.8170
05/24/24	3.3150	5.5507	3.1637	7.9377
06/20/24	4.4150	5.5436	3.1435	7.9437
07/12/24	3.4180	5.4037	2.8641	7.9433
08/18/24	6.4180	5.4925	2.9474	8.0376
09/03/24	4.9290	5.4628	2.9061	8.0194