WET TEST REPORT FORM – CHRONIC

Permittee: Colowyo Coal Company **Outfall:** 010A
Permit No.: CO-0045161

Test Type: Routine ☒ Accelerated ☐ Screen ☐
Test Species: *Ceriodaphnia dubia* **IWC:** 100%

Test Start Time	Test Start Date	Test End Time	Test End Date
1345	10-13-2020	1300	10-19-2020

Test Results	Lethality/TCP3B	Reproduction/TKP3B
S code: NOEL	60%	20%
	FAIL	**FAIL**
P code: LC_{25}/IC_{25}	50%	22%
	FAIL	**FAIL**
T code:	60%	22%

Dilution(s) - % Effluent

Measurements	Control (0%)	20%	40%	60%	80%	100%
% Survival for day 1	100	100	100	100	100	100
% Survival for day 2	100	100	100	100	90	60
% Survival for day 3	100	100	100	100	80	30
% Survival for day 4	100	100	100	80	20	0
% Survival for day 5	100	100	90	70	0	0
% Survival for day 6	100	100	90	60	0	0
Mean 3 Brood Total	19.5	14.9	12.1	11.0	1.2	0.1

Hardness (mg/L) – Receiving Water: N/A Effluent: 936/879/634 Recon Water: 91
Alkalinity (mg/L) – Receiving Water: N/A Effluent: 952/1121/801 Recon Water: 58
Chlorine (mg/L) – Effluent: <0.01 pH (initial/final) – Control: 8.2/8.1 100%: 8.1/8.4
Total Ammonia as NH_3 (mg/L) - Effluent: 1.02/1.43/1.99

Were all Test Conditions in Conformance with Division Guidelines? YES ☒ NO ☐
If **NO**, list deviations from test specifications:

Laboratory: SeaCrest Group
Comments:
Analyst's Name: Haley West, Sarah Adler, and Daniela Thornton

Signature *Date* 27 October 2020

WET TEST REPORT FORM – CHRONIC

Permittee: Colowyo Coal Company **Outfall:** 010A
Permit No.: CO-0045161

Test Type: Routine ☒ Accelerated ☐ Screen ☐
Test Species: fathead minnow **IWC:** 100%

Test Start Time	Test Start Date	Test End Time	Test End Date
1223	10-13-2020	1150	10-20-2020

Test Results	Lethality/TCP6C	Growth/TKP6C
S code: NOEL	100%	100%
	PASS	**PASS**
P code: LC_{25}/IC_{25}	>100%	99.9%
	PASS	**FAIL**
T code:	>100%	100%

Dilution(s) - % Effluent

Measurements	Control (0%)	20%	40%	60%	80%	100%
% Survival for day 1	98	100	100	100	98	95
% Survival for day 2	98	100	98	95	95	90
% Survival for day 3	95	100	98	95	88	83
% Survival for day 4	95	100	95	95	88	78
% Survival for day 5	95	100	93	95	88	73
% Survival for day 6	95	100	90	95	88	73
% Survival for day 7	93	100	90	95	88	73
Mean Dry Wt. (mg)	0.510	0.590	0.608	0.661	0.592	0.443

Hardness (mg/L) – Receiving Water: N/A Effluent: 936/879/634 Recon Water: 89
Alkalinity (mg/L) – Receiving Water: N/A Effluent: 952/1121/801 Recon Water: 58
Chlorine (mg/L) – Effluent: <0.01 pH (initial/final) – Control: 8.2/7.8 100%: 8.0/8.1
Total Ammonia as NH_3 (mg/L) - Effluent: 1.02/1.43/1.99

Were all Test Conditions in Conformance with Division Guidelines? YES ☐ NO ☒
If **NO**, list deviations from test specifications:
D.O. fell below 4.0mg/L overnight in test chambers
Laboratory: SeaCrest Group
Comments:
Analyst's Name: Sean Rainey and Daniel Hillenburg

Signature *Date* 27 October 2020

SeaCrestGroup
AN ENVIRONMENTAL SERVICES COMPANY

CHAIN OF CUSTODY

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

Client/Project Name: Colowyo Coal Company
P. O./Project Number: 270871
Contact: Angel Albers
Address: 5731 Hwy 13 Meeker Co 81641
Phone # 970 824 1219 E-Mail: AALBERS@TRISTATEGROUP
Fax # Sampler: T Fry
Report By: ☐ Mail ☑ PDF ☐ FAX

Analysis (Check all applicable)

Sample Location or ID	Date	Time	Grab/ Comp	Lab ID (LAB Use Only)	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
010A	10.12.2020	0850	G	420469.001		✓														3	G

Turnaround Requirements (Analytical Testing Only)

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

Requested Report Date:

Test Species: ☑ Fathead Minnow ☑ Cerio daphnia ☐ Daphnia magna ☐ Daphnia pulex ☐ Other (List Below)

Special Instructions/Comments:

Relinquished By (1)		Received By (1)		Relinquished By (2)		Received By (2)	
Signature: LTFRY	Date/Time: 10.12.2020 1000	Signature: VPS	Date/Time:	Signature: VPS	Date/Time:	Signature:	Date/Time: 101320 0900

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P. O./Project Number: 270871
Contact: Angela Albers
Address: 5731 Hwy 13 Meeker Co 81641
Phone # 970 824 1219 E-Mail: AAALBERS@TRISTATEGT.ORG
Fax # — Sampler: TFRY
Report By: ☐ Mail ☑ PDF ☐ FAX

Analysis (Check all applicable)

Sample Location or ID	Date	Time	Grab/ Comp	Lab ID (LAB Use Only)	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
010A	10.14.2020	0935	G	420469.B#2		✓															2	G

Turnaround Requirements (Analytical Testing Only)
_____ Standard (10 days) _____ 6-9 Day
_____ 3-5 Day _____ 1-2 Day
Requested Report Date:

Test Species: ☑ Fathead Minnow ☑ Cerio daphnia ☐ Daphnia magna ☐ Daphnia pulex ☐ Other (List Below)

Special Instructions/Comments:

Relinquished By (1)		Received By (1)		Relinquished By (2)		Received By (2)	
Signature (TFRY)	Date/Time 10.14.2020 1030	Signature UPS	Date/Time	Signature UPS	Date/Time	Signature	Date/Time 101520 0931

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P. O./Project Number: 270871
Contact: Angela Aalbers
Address: 5731 State Hwy 13 Meeker, CO 81641
Phone # 970-824-1219 E-Mail: aaalbers@tristate.org
Fax # Sampler: A. Aalbers
Report By: ☐ Mail ☒ PDF ☐ FAX

Analysis (Check all applicable)

Sample Location or ID	Date	Time	Grab/ Comp	Lab ID (LAB Use Only)	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
010A	10/16/20	0840	G	420469.B#3		X															2	G

Turnaround Requirements (Analytical Testing Only)

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

Requested Report Date:

Test Species: ☒ Fathead Minnow ☒ Cerio daphnia ☐ Daphnia magna ☐ Daphnia pulex ☐ Other (List Below)

Special Instructions/Comments:

Relinquished By (1)		Received By (1)		Relinquished By (2)		Received By (2)	
Signature: Angela Aalbers	Date/Time: 10/16/20 11:30	Signature: UPS	Date/Time:	Signature: UPS	Date/Time:	Signature: D. Thornton	Date/Time: 10/17/20 8:50