



NONCOMPLIANCE 24-HOUR NOTIFICATION FAX REPORT

State Form 52415 (10-05)
Indiana Department of Environmental Management
Office of Water Quality

INSTRUCTIONS: Complete all parts of this form and fax it to Office of Water Quality, Compliance Evaluation Section at (317) 232-8637 or 232-8406. Thorough completion of this report will satisfy the Office of Water Quality (OWQ) telephone and 5-day written noncompliance notification reporting requirements of your NPDES permit. To speak with someone in OWQ, call (317) 232-8670.

Any noncompliance which may pose a significant danger to human health or the environment must be immediately reported to the Emergency Response Section spill response line at: (317) 233-7745 or toll free within Indiana at (888) 233-7745.

FACILITY INFORMATION		
Facility Name: Gibson County Coal, LLC	County: Gibson	NPDES Permit Number: IN0064157
Individual Reporting: Blake Cutrell	Phone Number: 812-706-6630	Reporting Date: 3/27/2020

NONCOMPLIANCE INFORMATION				
Date:	Outfall:	Parameter:	Permit Limit: (Units/Daily/Weekly/Ave/Max/Min)	Monitored Value:
03/17/20	005	Ammonia	Limits: 1.6 mg/L (Avg) and 2.4 mg/L (Daily)	7.3 mg/L
03/17/20	005	TSS	Limits: 12 mg/L (Avg) and 18 mg/L (Daily)	30 mg/L

Description of the Noncompliance and its Cause:

Nitrogen Ammonia increased again the week of 03/17/2020 to 7.3 mg/L. TSS also was 33 mg/L. As reported last week, we believe this was from increased cleaning practices due to the Caronavirus (COVID-19). The 3rd party cleaning company was asked to increase cleaning chemicals used in order to stop the potential spread of the virus. Primarily larger amounts of bleach are being used during mopping and other cleaning practices. Additionally, the underground miners, who typically shower after their shift, are no longer showering at work due to COVID-19. This has caused our flowrates to decrease. Therefore, the concentration of cleaning chemicals has increased significantly.

These chemicals have harmed or killed the bugs, or biologic activity in the mixed liqueur. This has yielded in poor settleability in the clarifier and an increase in ammonia.

Description of the Period of Noncompliance, Including Exact Dates and Time, and if the Noncompliance has not been Corrected, the Anticipated Time it is Expected to Continue:

Unfortunately, due to COVID-19 and the health crisis we are facing, additional cleaning practices with bleach continue. The period of noncompliance is expected to continue while the health crisis continues. The color of the mixed liquor looks good, but the settleability in the clarifier has decreased.

Steps Taken or Planned to Reduce, Eliminate, and Prevent Reoccurrence of the Noncompliance:

We have seen an increase in Ammonia and TSS. While additional cleaning continues during this health crisis (COVID-19) we expect to see increase TSS and Ammonia. There is little we can do at this time to improve performance of the Plant while the concentration of cleaning chemicals is high.

As soon as the health crisis is over, the showers will be re-opened and the bleach concentration will be decreased. At that time the conditions of the plant will improve.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE: Blake Cutrell

DATE: 3-27-2020



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

LOC0934

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513

Project / PO Number: N/A
Received: 03/17/2020
Reported: 03/23/2020

Project Special Information

SW

IN0064157

Analytical Testing Parameters

Table with client sample ID, sample matrix, lab sample ID, collected by, and collection date.

Table for Inorganics Total: Solids, Total Suspended. Includes result, limit, RL, units, note, prepared, analyzed, and analyst.

Table for Metals Total by ICP: Calcium, Iron, Magnesium. Includes result, limit, RL, units, note, prepared, analyzed, and analyst.

Table for Method: SM 2340B: Hardness, Total as CaCO3. Includes result, RL, units, note, prepared, analyzed, and analyst.

Table for Anions by IC: Chloride, Sulfate. Includes result, limit, RL, units, note, prepared, analyzed, and analyst.

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Table for Field Parameters: Flow by Measurement & Calc., Temperature, pH. Includes result, limit, RL, units, note, prepared, analyzed, and analyst.



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

LOC0934

Client Sample ID: Outfalls 003D, 003A, 003B	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/17/2020 9:25
Lab Sample ID: LOC0934-01	

Inorganics Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM 2540 F 2011								
Solids, Settleable	<0.1	0.5	0.1	mL/L/hr			03/18/20 0940	KDS

Client Sample ID: Outfall 005	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/17/2020 9:17
Lab Sample ID: LOC0934-02	

Inorganics Total	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: SM 4500 NH3 G								
Nitrogen, Ammonia	7.3	1.6	0.50	mg/L		03/19/20 1107	03/19/20 1626	AGR
Method: USGS I-3765-85								
Solids, Total Suspended	30	12	5	mg/L		03/18/20 1050	03/18/20 1500	RXG

Metals Total by ICP	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 200.7								
Phosphorus, Total	0.64	1.0	0.10	mg/L		03/19/20 0755	03/20/20 0637	JSW

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	0.00354		0	MGD			03/17/20 0917	SHB
Method: SM 2550 B 2010								
Temperature	12.9			°C			03/17/20 0917	SHB
Method: SM 4500 H+ B 2011								
pH	7.46	6.00-9.00	1.00	S.U.			03/17/20 0917	SHB
Method: SM 4500 O G 2011								
Oxygen, Dissolved	6.76		0.10	mg/L			03/17/20 0917	SHB

Microbac Laboratories, Inc.

3323 Gilmore Industrial Blvd | Louisville, KY 40213 | 502.962.6400 p | www.microbac.com



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L0C0934

Client Sample ID: Outfall 006	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/17/2020 9:48
Lab Sample ID: L0C0934-03	

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	No Flow		0	MGD			03/17/20 0948	SHB
Method: NA								
Augmented Flow by Measurement & Calc.	No Flow		0	MGD			03/17/20 0948	SHB

Client Sample ID: Outfall 103	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/17/2020 9:12
Lab Sample ID: L0C0934-04	

Anions by IC	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 300.0								
Chloride	670		9.0	mg/L		03/18/20 2153	03/18/20 2153	LJC
Sulfate	62		2.5	mg/L		03/18/20 1930	03/18/20 1930	LJC

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	2.91		0	MGD			03/17/20 0912	SHB
Method: NA								
Augmented Flow by Measurement & Calc.	0.74		0	MGD			03/17/20 0912	SHB

Client Sample ID: Outfall 106	Collected By: Seth Backes
Sample Matrix: Aqueous	Collection Date: 03/17/2020 9:49
Lab Sample ID: L0C0934-05	

Analyses Performed by: Microbac Laboratories, Inc., Evansville

Field Parameters	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 600								
Flow by Measurement & Calc.	No Flow		0	MGD			03/17/20 0949	SHB

Results in bold have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.



Microbac Laboratories, Inc., Louisville

CERTIFICATE OF ANALYSIS

L0C0934

Definitions

°C:	Degrees Celsius
mg/L:	Milligrams per Liter
MGD:	Millions Of Gallons per Day
RL:	Reporting Limit
S.U.:	Standard Units

Report Comments

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included. The services were provided under and subject to Microbac's standard terms and conditions which can be located and reviewed at <https://www.microbac.com/standard-terms-conditions>.

Reviewed and Approved By:

James Taylor

Analyst

Reported: 03/23/2020 11:23

Microbac Laboratories, Inc.

3323 Gilmore Industrial Blvd | Louisville, KY 40213 | 502.962.6400 p | www.microbac.com



Chain of Custody
Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



L0C0934

TAT 4 days

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/17/2020
Route: EVV - ARLP - GCC Pond - Weekly

Client Sample ID: Outfalls 003D, 003A, 003B

Lab Sample ID: L0C0934-01

Matrix: Aqueous

Sampled Date & Time: 3/17/20 / 0925

Type: Grab

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
FLOW BY MEASUREMENT & CALC. - MGD	EPA 600	Field Instrument: _____ Result: <u>0.262</u> Unit: <u>MGD</u>	
PH, FIELD	SM 4500 H+ B 2011	Field Instrument: <u>p-96</u> Result: <u>8.08</u> Unit: <u>SU</u>	
TEMPERATURE AT PH READING, ° C - FIELD - EVV	SM 2550 B 2010	Field Instrument: <u>p-96</u> Result: <u>10.0</u> Unit: <u>°C</u>	
HARDNESS PKG. By ICP - [CALC] 200.7	varies		180.00 days
CHLORIDE - 300.0	EPA 300.0		28.00 days
SULFATE - 300.0	EPA 300.0		28.00 days
SOLIDS, SETTLEABLE - EVV	SM 2540 F 2011	<u>1 hr</u>	2.00 days
SOLIDS, TOTAL SUSPENDED	USGS I-3765-85		7.00 days
IRON, TOTAL RECOVERABLE - ICP 200.7	EPA 200.7		180.00 days
	<u>Container(s)</u>		<u>Designator</u>
	A-50 ML PLASTIC DIGITUBE-4°C		A
	B-250 ML PLASTIC-METALS-HNO3		B
	A-1 LITER PLASTIC - GEN CHEM-4°C		C
	A-1 LITER PLASTIC - GEN CHEM-4°C		D

Client Sample ID: Outfall 005

Lab Sample ID: L0C0934-02

Matrix: Aqueous

Sampled Date & Time: 3/17/20 / 0917

Type: Grab

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
FLOW BY MEASUREMENT & CALC. - MGD	EPA 600	Field Instrument: _____ Result: <u>0.00354</u> Unit: <u>MGD</u>	
OXYGEN, DISSOLVED - FIELD - EVV	SM 4500 O G 2011	Field Instrument: <u>DOM-1</u> Result: <u>6.76</u> Unit: <u>mg/L</u>	
PH, FIELD	SM 4500 H+ B 2011	Field Instrument: <u>p-96</u> Result: <u>7.46</u> Unit: <u>SU</u>	
TEMPERATURE AT PH READING, ° C - FIELD - EVV	SM 2550 B 2010	Field Instrument: <u>p-96</u> Result: <u>12.9</u> Unit: <u>°C</u>	
NITROGEN, AMMONIA	SM 4500 NH3 G		28.00 days
SOLIDS, TOTAL SUSPENDED	USGS I-3765-85		7.00 days
PHOSPHORUS - ICP 200.7	EPA 200.7		180.00 days

Microbac Laboratories, Inc.



Chain of Custody

Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



L0C0934

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/17/2020
Route: EVV - ARLP - GCC Pond - Weekly

Table with 2 columns: Container(s) and Designator. Rows include A-1 LITER PLASTIC - GEN CHEM-4°C (Designator A), B-250 ML PLASTIC-METALS-HNO3 (Designator B), and C-250 ML PLASTIC - H2SO4 (Designator C).

Client Sample ID: Outfall 006

Lab Sample ID: L0C0934-03

Matrix: Aqueous

Sampled Date & Time: 3/17/20 / 0948

Type: Grab

Main analysis table with columns: Analysis, Method, Field Results/Comments, and Hold Time. Lists various chemical and physical parameters like FLOW BY MEASUREMENT & CALC., PH, TEMPERATURE AT PH, etc.

Table with 2 columns: Container(s) and Designator. Rows include A-1 LITER PLASTIC - GEN CHEM-4°C (Designator A), A-50 ML PLASTIC DIGITUBE-4°C (Designator B), and B-250 ML PLASTIC-METALS-HNO3 (Designator C).

Client Sample ID: Outfall 103

Lab Sample ID: L0C0934-04

Matrix: Aqueous

Sampled Date & Time: 3/17/20 / 0912

Type: Grab

Main analysis table for Outfall 103 with columns: Analysis, Method, Field Results/Comments, and Hold Time. Includes handwritten results like 2.91 and 0.74.



Chain of Custody

Microbac Laboratories, Inc., Louisville

Lab Manager: James Taylor



L0C0934

Gibson County Coal - Alliance

Project Name: GCC - IP IN0064157 South

Jason Heck
1146 Monarch Street, Suite 350
Lexington, KY 40513
Phone: (859) 685-6332

Project/PO Number: N/A
Tenatively Scheduled: 3/17/2020
Route: EVV - ARLP - GCC Pond - Weekly

CHLORIDE - 300.0	EPA 300.0	28.00 days
SULFATE - 300.0	EPA 300.0	28.00 days
<u>Container(s)</u>		<u>Designator</u>
A-50 ML PLASTIC DIGITUBE-4°C		A

Client Sample ID: Outfall 106

Lab Sample ID: L0C0934-05

Matrix: Aqueous

Sampled Date & Time: 3/17/20 / 0949

Type: Grab

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
FLOW BY MEASUREMENT & CALC. - MGD	EPA 600	Field Instrument: _____ Result: <u>No flow</u> Unit: _____	
SOLIDS, TOTAL SUSPENDED	USGS I-3765-85		7.00 days
IRON, TOTAL RECOVERABLE - ICP 200.7	EPA 200.7		180.00 days

<u>Container(s)</u>	<u>Designator</u>
B-250 ML PLASTIC-METALS-HNO3	A
A-1 LITER PLASTIC - GEN CHEM-4°C	B

Sampled/Relinquished by: <u>Josh Buckles</u>	Date/Time: <u>3/17/20 / 1300</u>	Received by: <u>Kim Sutton</u>
Printed Name: <u>Setu Buckles</u>		Printed Name: <u>Kim Sutton</u>
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Received at Laboratory: On Ice: Yes / No Temp 1.4 °C Total Containers: 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:

Outfall 106 is only sampled when Outfall 006 has flow.

005 - Record DO reading on COC upon arrival and departure from site. Average of two readings is entered into LIMS.
Home Facility: Evansville

DO (6.81 @ 0917) and (6.71 @ 0955)



