CAMBRIAN COAL CORPORATION
P.O. BOX 100
BELCHER, KENTUCKY 41513

DMRE PERMIT NO. 898-0806
ORIGINAL APPLICATION

KPDES INDIVIDUAL PERMIT
KPDES Form 1
KPDES Form C

November 24, 2009

PREPARED BY:

SUMMIT ENGINEERING, INC.

P.O. Box 40 Big Rock, VA 24603 276/530-7220	131 Summit Drive Pikeville, KY 41501 606/432-1447	120 Prosperous Place Lexington, KY 40509 859/264-9860	P.O. Box 130 Chapmanville, WV 25508 304/855-5691	400 Allen Drive, Suite 100 Charleston, WV 25302 304/342-1342	P.O. Box 1035 Hazard, KY 41702 606-439-1497

SUMMIT ENGINEERING, INC.

November 24, 2009

Eric Cleaver
Division of Water
Surface Water Permits Branch
200 Fair Oaks Lane
Frankfort, Kentucky 40601

Re: Cambrian Coal Corporation
KPDES Individual Permit Application
DMRE Permit No. 898-0806 – Adams Branch Strip
Original Application

Dear Mr. Cleaver:

Regarding the above submitted Individual Permit Application for Cambrian Coal Corporation, a variance is requested for the sampling of the following parameters found on Form C, Part V-A:

- Biochemical Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Total Organic Carbon (TOC)
- Ammonia (as N)

These parameters are not usually affected by mining activity; therefore, sampling was not conducted, and should not be required.

If you have any questions, or require additional information, please call me at (276) 530-7220 or e-mail abandy@summit-engr.com.

Respectively Submitted,

Angela Bandy

Angela M. Bandy
Permit Technician

BC/cds

Cc: file

CERTIFICATE

The undersigned, Secretary of Cambrian Coal Corporation, certifies that the following is a true and correct copy of the resolution adopted by the Board of Directors of said corporation at a meeting duly called and held on the 9th day of March, 2001, and further certifies that the same has not been modified, amended or rescinded by remains in full force and effect as of the date hereof:

> Resolved that Samuel Billiter, in his capacity as Manager of Engineering of Cambrian Coal Corporation, be and he is hereby authorized and directed to sign and execute for and on behalf of Cambrian Coal Corporation, any and all documents and instruments relating to bonding, permitting and other matters herewith.

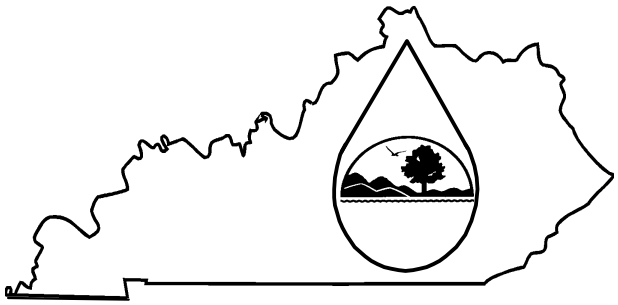
IN WITNESS WHEREOF, the undersigned has caused this Certificate to be executed this the 9 day of March, 2001.

J. Mark Campbell, Secretary
Cambrian Coal Corporation

NOTARY PUBLIC

1/04/2003
comm. expires

KPDES FORM 1



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

This is an application to: (check one)
- ☒ Apply for a new permit.
- ☐ Apply for reissuance of expiring permit.
- ☐ Apply for a construction permit.
- ☐ Modify an existing permit.
  Give reason for modification under Item II.A.

A complete application consists of this form and one of the following:
Form A, Form B, Form C, Form F, or Form SC

For additional information contact:
Surface Water Permits Branch (502) 564-3410

I. FACILITY LOCATION AND CONTACT INFORMATION	AGENCY USE							

A. Name of Business, Municipality, Company, Etc. Requesting Permit
Cambrian Coal Corporation

B. Facility Name and Location	C. Primary Mailing Address (all facility correspondence will be sent to this address). **Include owner's mailing address (if different) in D.**
Facility Location Name: Adams Branch	Facility Contact Name and Title: Mr. ☒ Ms. ☐ Samuel T. Billiter
Facility Location Address (i.e. street, road, etc., **not P.O. Box**): ~ 2 mi. NW of intersection of Adams Br. & Elkhorn Creek, @ end of Adams Br.	Mailing Address: P.O. Box 100
Facility Location City, State, Zip Code: Ashcamp, KY 41512	Mailing City, State, Zip Code: Belcher, KY 41513
D. Owner's name (if not the same as in part A and C):	Facility Contact Telephone Number: (606) 754-5010
Owner's Mailing Address: P. O. Box 100, Belcher, KY 41513	Owner's Telephone Number (if different): (606) 754-5010

II. FACILITY DESCRIPTION

A. Provide a brief description of activities, products, etc:
This project proposes to extract coal from the Elkhorn No.2 and above coal seams using contour mining, area mining, and mountain top removal methods within areas on Adams Branch, Little Branch, Jacksons Branch, Dry Fork Branch, and Pond Creek in Pike County, Kentucky.

B. Standard Industrial Classification (SIC) Code and Description

Principal SIC Code & Description:	1221 - Surface Coal Mining		
Other SIC Codes:			

III. FACILITY LOCATION

A. Attach a U.S. Geological Survey 7 ½ minute quadrangle map for the site. (See instructions)

B. County where facility is located:	City where facility is located (if applicable):
Pike	N/A

C. Body of water receiving discharge:
Adams Br.

D. Facility Site Latitude (degrees, minutes, seconds):	Facility Site Longitude (degrees, minutes, seconds):
37° 17' 30"	82° 25' 20"

E. Method used to obtain latitude & longitude (see instructions): Topographic Map

IV. OWNER/OPERATOR INFORMATION

A. Type of Ownership:

☐ Publicly Owned ☒ Privately Owned ☐ State Owned ☐ Both Public and Private Owned ☐ Federally owned

B. Operator Contact Information (See instructions)

Name of Treatment Plant Operator:	Telephone Number:
N/A	N/A
Operator Mailing Address (Street): N/A	
Operator Mailing Address (City, State, Zip Code): N/A	
Is the operator also the owner? Yes ☒ No ☐	Is the operator certified? If yes, list certification class and number below. Yes ☐ No ☒
Certification Class:	Certification Number:

V. EXISTING ENVIRONMENTAL PERMITS

Current NPDES Number:	Issue Date of Current Permit:	Expiration Date of Current Permit:
N/A	N/A	N/A
Other DOW Operational Permit #:	Kentucky DMR Permit Number(s):	Sludge Disposal Permit Number:
N/A	898-0806	N/A
Other Existing Environmental Permit #:	Other Existing Environmental Permit #:	Other Existing Environmental Permit #:
N/A	N/A	N/A

Which of the following additional environmental permit/registration categories will also apply to this facility?

CATEGORY	EXISTING PERMIT WITH NO.	PERMIT NEEDED WITH PLANNED APPLICATION DATE
Air Emission Source	N/A	N/A
Solid or Special Waste	N/A	N/A
Hazardous Waste - Registration or Permit	N/A	N/A

VI. DISCHARGE MONITORING REPORTS (DMRs)

KPDES permit holders are required to submit DMRs to the Division of Water on a regular schedule (as defined by the KPDES permit). Information in this section serves to specifically identify the name and telephone number of the DMR official and the DMR mailing address (if different from the primary mailing address in Section I.C).

A. DMR Official (i.e., the department, office or individual designated as responsible for submitting DMR forms to the Division of Water):	Samuel T. Billiter
DMR Official Telephone Number:	(606) 754-5010

B. DMR Mailing Address:

- Address the Division of Water will use to mail DMR forms (if different from mailing address in Section I.C), or
- Contact address if another individual, company, laboratory, etc. completes DMRs for you; e.g., contract laboratory address.

DMR Mailing Name:	Cambrian Coal Corporation
DMR Mailing Address:	P. O. Box 100
DMR Mailing City, State, Zip Code:	Belcher, KY 41513

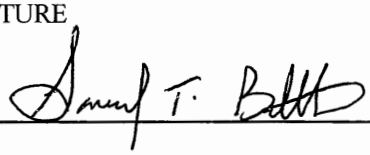
VII. APPLICATION FILING FEE

KPDES regulations require that a permit applicant pay an application filing fee equal to twenty percent of the permit base fee. Please examine the base and filing fees listed in "Form 1 Instructions" and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. For permit renewals, please include the KPDES permit number on the check to ensure proper crediting. Please see the separate document "General Instructions" for an expanded description of the base fee amounts.

Facility Fee Category:	Filing Fee Enclosed:
Surface Mining Operation	~~$ 240.00~~ $660.00

VIII. CERTIFICATION

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.

NAME AND OFFICIAL TITLE (type or print):	PHONE NUMBER: (606) 754-5010
Mr. ☒ Ms. ☐ Samuel T. Billiter - Manager of Engineering, POA	EMAIL: sbilliter@marshallresources.net
SIGNATURE 	DATE: 11/16/09

Return completed application form and attachments to: **Surface Water Permits Branch, Division of Water, 200 Fair Oaks Lane, Frankfort, KY 40601. Direct questions to: Surface Water Permits Branch at (502) 564-3410.**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF KENTUCKY
AGRICULTURAL AND INDUSTRIAL DEVELOPMENT BOARD

HELLIER QUADRANGLE
KENTUCKY–VIRGINIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 REGINA 15' QUADRANGLE

(PIKEVILLE) 4558 I NE
(LICK CREEK) 4558 IV NE
(MILLARD) 4558 IV NW
(DORTON) 4558 I SE
(ELKHORN CITY) 4558 IV SE
(JENKINS EAST) 4458 II NE
(HAYSI) 4558 III NE
(CLINTWOOD) 4558 III NW
(JENKINS 11' MI.)

82°30' 27'30" 25' 82°22'30"
37°22'30" 20' 17'30" 37°15'
840 000 FEET (VA.) 2 980 000 FEET (KY.)
400 000 FEET (VA.) 390 000 FEET (KY.) 360 000 FEET (KY.) 360 000 FEET (VA.)
4137000m.N. 4000m.E.

PIKEVILLE 14 MI.
ELKHORN CITY 2.8 MI.
ROSEDALE, VA. (JUNC. U.S. 19) 50 MI.
ELKHORN CITY 2.5 MI.
STATE LINE 6.4 MI.

Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods and from coal company maps stereo-compiled in 1947, revised from aerial photographs taken 1952. Entire map field checked 1954

Polyconic projection. 1927 North American datum
10,000-foot grids based on Kentucky coordinate system, south zone, and Virginia coordinate system, south zone

All wells shown are gas wells

Contours in strip mine areas from 1952 photography

Unchecked elevations are shown in brown

1000-meter Universal Transverse Mercator grid ticks, zone 17, shown in blue

This map was vectorized from USGS Hellier Quadrangle, West Virginia–Virginia, 7.5 Minute Series, by Eastham & Associates, 100 Cedar Street, Chesapeake, Ohio, 45619, (614) 867-8369.

MN GN
3° 53 MILS 0°52' 15 MILS
UTM GRID AND 1978 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24000
1 1/2 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S.GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
KENTUCKY GEOLOGICAL SURVEY, LEXINGTON, KENTUCKY 40506
AND KENTUCKY DEPARTMENT OF COMMERCE, FRANKFORT, KENTUCKY 40601
AND VIRGINIA DIVISION OF MINERAL RESOURCES, CHARLOTTESVILLE, VIRGINIA 22903
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION
Heavy-duty... Light-duty...
Medium-duty Unimproved dirt
U.S. Route State Route

KENTUCKY
QUADRANGLE LOCATION

Revisions shown in purple compiled from aerial photographs taken 1975 and other source data. This information not field checked. Map edited 1978

Boundary lines shown in purple compiled from latest information available from the controlling authority

HELLIER, KY.–VA.
SW/4 REGINA 15' QUADRANGLE
N3715 – W8222.5/7.5

1954
PHOTOREVISED 1978
AMS 4558 IV SW–SERIES V853

INTERIOR–GEOLOGICAL SURVEY, RESTON, VIRGINIA–1978

DATE: 11–11–09	FILENAME: LOCATION.DWG	CAMBRIAN COAL CORPORATION P.O. BOX 100, BELCHER, KENTUCKY 41513
SCALE: 1"=2000'	P.N. 898–0806	STRUCTURE LOCATION MAP ADAMS BRANCH OF ELKHORN CREEK – HELLIER QUAD
DRAWN BY: D.S.A.	PAGE NO. 6.2	

SUMMIT ENGINEERING INC.

Big Rock, VA
Chapmanville, WV
Charleston, WV
Pikeville, KY
Lexington, KY
Hazard, KY

KPDES FORM C

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

A complete application consists of this form and Form 1.
For additional information, contact Surface Water Permits Branch, (502) 564-3410.

Name of Facility: Adams Branch Strip	County: Pike							
I. OUTFALL LOCATION	AGENCY USE							

For each outfall list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

Outfall No. (list)	LATITUDE			LONGITUDE			RECEIVING WATER (name)
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
See Appendix A							

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfall. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary.

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1
See Appendix B				

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES (Continued)

C. Except for storm water runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☐ Yes (Complete the following table.) ☒ No (Go to Section III.)

OUTFALL NUMBER (list)	OPERATIONS CONTRIBUTING FLOW (list)	FREQUENCY		FLOW				
		Days Per Week (specify average)	Months Per Year (specify average)	Flow Rate (in mgd)		Total volume (specify with units)		Duration (in days)
				Long-Term Average	Maximum Daily	Long-Term Average	Maximum Daily	

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ Yes (Complete Item III-B) List effluent guideline category:

☒ No (Go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measures of operation)?

☐ Yes (Complete Item III-C) ☒ No (Go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents the actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

AVERAGE DAILY PRODUCTION			Affected Outfalls (list outfall numbers)
Quantity Per Day	Units of Measure	Operation, Product, Material, Etc. (specify)	

IV. IMPROVEMENTS

A. Are you now required by any federal, state or local authority to meet any implementation schedule for the construction, upgrading, or operation of wastewater equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders and grant or loan conditions.

☐ Yes (Complete the following table) ☒ No (Go to Item IV-B)

IDENTIFICATION OF CONDITION AGREEMENT, ETC.	AFFECTED OUTFALLS		BRIEF DESCRIPTION OF PROJECT	FINAL COMPLIANCE DATE	
	No.	Source of Discharge		Required	Projected

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered 5-18.

D. Use the space below to list any of the pollutants (refer to SARA Title III, Section 313) listed in Table C-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

POLLUTANT	SOURCE	POLLUTANT	SOURCE
N/A			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (List all such pollutants below) ☒ No (Go to Item VI-B)

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have any knowledge of or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ Yes (Identify the test(s) and describe their purposes below) ☒ No (Go to Section VIII)

VIII. CONTRACT ANALYSIS INFORMATION

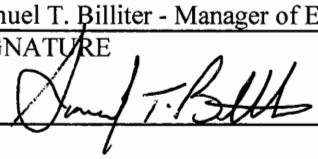
Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ Yes (list the name, address, and telephone number of, and pollutants analyzed by each such laboratory or firm below) ☐ No (Go to Section IX)

NAME	ADDRESS	TELEPHONE (Area code & number)	POLLUTANTS ANALYZED (list)
Summit Engineering, Inc.	P. O. Box 40 Big Rock, VA 24603	Tel: (276) 530-7220 Fax: (276) 530-7280	Total Suspended Solids Sulfate pH Iron, Total Manganese, Total Hardness Flow Conductivity
McCoy & McCoy Laboratories, Inc.	173 Island Creek Road Pikeville, KY 41501	Tel: (606) 432-3104	Aluminum, Total Antimony, Total Arsenic, Total Beryllium, Total Cadmium, Total Chromium, Total Copper, Total Lead, Total Mercury, Total Nickel, Total Selenium, Total Silver, Total Thallium, Total Zinc, Total Cyanide, Total Phenols, Total

IX. CERTIFICATION

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.

NAME AND OFFICIAL TITLE (type or print):	TELEPHONE NUMBER (area code and number):
Samuel T. Billiter - Manager of Engineering, POA	(606) 754-5010
SIGNATURE 	DATE 11/16/09

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages. (See instructions)

***The following tables include only those pollutants which are believed to be present in the sample or for which testing is required**

V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C) | **OUTFALL NO.** H-2

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT							3. UNITS (specify if blank)		4. INTAKE (optional)		
	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg. Value		b. No of Analyses
	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
Total Suspended Solids (TSS)	9						1	mg/L				
Flow (in units of MGD)	VALUE 0.023		VALUE		VALUE		1	MGD		VALUE		
pH	MINIMUM 7.4	MAXIMUM 7.4	MINIMUM	MAXIMUM			1	STANDARD UNITS				

Part B - In the MARK "X" column, place an "X" in the Believed Present column for each pollutant you know or have reason to believe is present. Place an "X" in the Believed Absent column for each pollutant you believe to be absent. If you mark the Believed Present column for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT							4. UNITS		6. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
			(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
Hardness (as $CaCO_3$)		X	604						1	mg/L				
Sulfate (as SO_4) (14808-79-8)		X	300						1	mg/L				
Iron, Total (7439-89-6)		X	0.15						1	mg/L				
Manganese, Total (7439-96-6)		X	< 0.02						1	mg/L				

Part C – If you are a primary industry and this outfall contains process wastewater, refer to Table C-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in the **Testing Required** column for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark this column (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in the **Believed Present** column for each pollutant you know or have reason to believe is present. Mark "X: in the **Believed Absent** column for each pollutant you believe to be absent. If you mark either the **Testing Required** or **Believed Present** columns for any pollutant, you must provide the result of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
METALS, CYANIDE AND TOTAL PHENOLS															
Antimony Total (7440-36-0)		X		< 0.002						1	mg/L				
Arsenic, Total (7440-38-2)		X		< 0.002						1	mg/L				
Beryllium Total (7440-41-7)		X		< 0.002						1	mg/L				
Cadmium Total (7440-43-9)		X		< 0.002						1	mg/L				
Chromium Total (7440-43-9)		X		< 0.002						1	mg/L				
Copper Total (7550-50-8)		X		< 0.002						1	mg/L				
Lead Total (7439-92-1)		X		< 0.002						1	mg/L				
Mercury Total (7439-97-6)		X		14.4×10^{-6}						1	mg/L				
Nickel, Total (7440-02-0)		X		< 0.002						1	mg/L				
Selenium, Total (7782-49-2)		X		0.002						1	mg/L				

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. Testing Required	a. Believed Present	b. Believed Absent	a. Maximum Daily Value		b. Maximum 30-Day Value (if available)		c. Long-Term Avg. Value (if available)		d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value		b. No. of Analyses
				(1) Concentration	(2) Mass	(1) Concentration	(2) Mass	(1) Concentration	(2) Mass				(1) Concentration	(2) Mass	
METALS, CYANIDE AND TOTAL PHENOLS (Continued)															
Silver, Total (7440-28-0)		X		< 0.002						1	mg/L				
Thallium, Total (7440-28-0)		X		< 0.002						1	mg/L				
Zinc, Total (7440-66-6)		X		0.011						1	mg/L				
Cyanide, Total (57-12-5)		X		< 0.02						1	mg/L				
Phenols, Total		X		< 0.05						1	mg/L				

Cambrian Coal Corporation
KPDES Permit Number 898-0806

APPENDIX A

Additional Information

KPDES Form C

Outfall No. (list)	LATITUDE			LONGITUDE			RECEIVING WATER (name)
	Degrees	Minutes	Seconds	Degrees	Minutes	Seconds	
D-15	37	16	57	82	24	51	Adams Branch of Elkhorn Creek
D-16	37	17	03	82	24	54	Adams Branch of Elkhorn Creek
D-17	37	17	08	82	25	00	Adams Branch of Elkhorn Creek
D-18	37	17	18	82	25	01	Adams Branch of Elkhorn Creek
D-19	37	17	24	82	25	10	Adams Branch of Elkhorn Creek
D-20	37	17	32	82	25	11	Adams Branch of Elkhorn Creek
D-21	37	17	35	82	25	39	Pond Creek of Russell Fork
D-22	37	17	36	82	25	47	Pond Creek of Russell Fork
D-23	37	17	41	82	25	52	Pond Creek of Russell Fork
D-24	37	17	47	82	25	59	Pond Creek of Russell Fork
D-25	37	17	54	82	25	51	Pond Creek of Russell Fork
D-26	37	17	58	82	25	54	Pond Creek of Russell Fork
D-27	37	18	11	82	26	09	Dry Fork of Marrowbone Creek
D-28	37	18	17	82	26	18	Dry Fork of Marrowbone Creek
D-29	37	18	19	82	26	26	Dry Fork of Marrowbone Creek
D-30	37	18	09	82	26	25	Dry Fork of Marrowbone Creek
D-31	37	18	09	82	26	38	Dry Fork of Marrowbone Creek
D-32	37	17	56	82	26	51	Edgewater Branch of Marrowbone Creek
D-33	37	17	44	82	26	55	Edgewater Branch of Marrowbone Creek
D-34	37	17	38	82	26	47	Edgewater Branch of Marrowbone Creek

D-35	37	17	34	82	26	46	Edgewater Branch of Marrowbone Creek
D-36	37	17	22	82	26	38	Jacksons Branch of Elkhorn Creek
D-37	37	17	22	82	26	28	Jacksons Branch of Elkhorn Creek
D-38	37	17	31	82	26	29	Jacksons Branch of Elkhorn Creek
D-39	37	17	31	82	26	18	Jacksons Branch of Elkhorn Creek
D-40	37	17	22	82	26	13	Jacksons Branch of Elkhorn Creek
D-41	37	17	23	82	26	02	Jacksons Branch of Elkhorn Creek
D-42	37	17	15	82	26	11	Jacksons Branch of Elkhorn Creek
D-43	37	17	06	82	26	04	Jacksons Branch of Elkhorn Creek
D-44	37	16	59	82	25	42	Jacksons Branch of Elkhorn Creek
D-45	37	16	44	82	25	40	Jacksons Branch of Elkhorn Creek
D-46	37	16	37	82	25	29	Jacksons Branch of Elkhorn Creek
D-47	37	16	31	82	25	23	Jacksons Branch of Elkhorn Creek
D-48	37	16	30	82	26	17	Jacksons Branch of Elkhorn Creek
D-55	37	16	51	82	25	18	Little Branch of Elkhorn Creek
D-56	37	16	55	82	25	22	Little Branch of Elkhorn Creek
D-57	37	17	13	82	25	24	Little Branch of Elkhorn Creek
D-58	37	17	12	82	25	16	Little Branch of Elkhorn Creek
D-59	37	17	05	82	25	09	Little Branch of Elkhorn Creek
D-60	37	17	00	82	25	05	Little Branch of Elkhorn Creek
D-61	37	16	54	82	25	03	Little Branch of Elkhorn Creek
D-62	37	16	52	82	24	54	Little Branch of Elkhorn Creek
D-63	37	16	45	82	24	40	Little Branch of Elkhorn Creek

D-64	37	16	43	82	24	34	Little Branch of Elkhorn Creek
SS-2	37	17	01	82	26	02	Jacksons Branch of Elkhorn Creek
SS-3	37	16	34	82	25	26	Jacksons Branch of Elkhorn Creek
SS-4	37	17	08	82	25	16	Little Branch of Elkhorn Creek
SS-5	37	16	44	82	24	48	Little Branch of Elkhorn Creek
SS-6	37	16	39	82	24	33	Little Branch of Elkhorn Creek
SS-50	37	17	02	82	25	41	Daves Hollow of Jacksons Branch of Elkhorn Creek
SS-80	37	18	08	82	26	30	Dry Fork of Marrowbone Creek
SS-83	37	17	32	82	26	22	Jacksons Branch of Elkhorn Creek
SS-92	37	16	39	82	25	38	Jacksons Branch of Elkhorn Creek
SS-94	37	16	57	82	25	39	Jacksons Branch of Elkhorn Creek
SS-97	37	16	43	82	25	13	Little Branch of Elkhorn Creek

Cambrian Coal Corporation
KPDES Permit Number 898-0806

APPENDIX B

Additional Information

KPDES Form C

OUTFALL NO. (list)	OPERATION(S) CONTRIBUTING FLOW		TREATMENT	
	Operation (list)	Avg/Design Flow (include units)	Description	List Codes from Table C-1
D-15	Surface Runoff	14.12 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-16	Surface Runoff	15.40 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-17	Surface Runoff	21.29 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-18	Surface Runoff	16.52 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-19	Surface Runoff	31.92 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-20	Surface Runoff	25.87 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-21	Surface Runoff	45.18 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-22	Surface Runoff	34.51 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-23	Surface Runoff	25.31 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-24	Surface Runoff	40.34 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-25	Surface Runoff	31.50 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-26	Surface Runoff	63.60 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-27	Surface Runoff	39.46 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-28	Surface Runoff	35.73 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-29	Surface Runoff	12.42 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-30	Surface Runoff	26.75 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-31	Surface Runoff	20.00 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A

D-32	Surface Runoff	37.52 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-33	Surface Runoff	38.65 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-34	Surface Runoff	46.24 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-35	Surface Runoff	64.45 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-36	Surface Runoff	39.50 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-37	Surface Runoff	26.49 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-38	Surface Runoff	29.23 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-39	Surface Runoff	32.19 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-40	Surface Runoff	18.81 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-41	Surface Runoff	101.58 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-42	Surface Runoff	66.77 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-43	Surface Runoff	21.37 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-44	Surface Runoff	13.11 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-45	Surface Runoff	11.78 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-46	Surface Runoff	13.50 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-47	Surface Runoff	9.14 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-48	Surface Runoff	20.78 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-55	Surface Runoff	7.58 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-56	Surface Runoff	19.64 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-57	Surface Runoff	43.33 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-58	Surface Runoff	28.72 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A

D-59	Surface Runoff	16.54 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-60	Surface Runoff	14.09 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-61	Surface Runoff	14.42 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-62	Surface Runoff	15.62 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-63	Surface Runoff	14.51 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
D-64	Surface Runoff	4.42 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-2	Surface Runoff	82.87 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-3	Surface Runoff	27.14 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-4	Surface Runoff	53.41 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-5	Surface Runoff	41.57 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-6	Surface Runoff	28.53 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-50	Surface Runoff	137.89 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-80	Surface Runoff	194.63 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-83	Surface Runoff	239.10 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-92	Surface Runoff	101.78 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-94	Surface Runoff	27.26 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A
SS-97	Surface Runoff	38.69 cfs (peak)	Sedimentation Discharge to Surface Water	1-U 4-A