May 2010

FORM 1 and FORM C
KPDES INDIVIDUAL PERMIT APPLICATION

Sidney Coal Company, Inc.
KDMRE Permit No. 898-0848
Fraley Branch of Big Creek

Prepared for:

Sidney Coal Company, Inc.
P.O. Box 299
Sidney, KY 41564

Prepared by:

Summit Engineering, Inc.
131 Summit Drive
Pikeville, KY 41501
Telephone: (606) 432-1447

SUMMIT ENGINEERING, INC.

May 24, 2010

Eric Cleaver
Inventory & Data Management Section
KPDES Branch
Division of Water
14 Reilly Road
Frankfort, Kentucky 40601

RE: Sidney Coal Company, Inc.
DMRE Permit No. 898-0848
Fraley Branch of Big Creek

Mr. Cleaver:

Please find enclosed copy of the completed Form 1 and C submitted for the above-referenced project to be located in Pike County. Sidney Coal Company, Inc. seeks approval for KPDES individual permit coverage for its proposed mining activities.

In addition, a variance is requested for the sampling of the following parameters found on Form C, Part V.A:

- Biological Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Total Organic Carbon (TOC)
- Ammonia

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

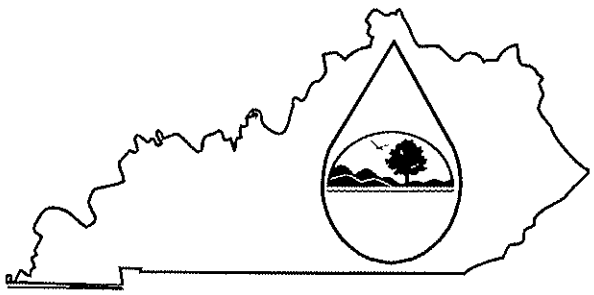
In addition, following issuance of KPDES Individual Permit coverage, water monitoring and benthic macroinvertebrate sampling will be conducted in accordance with permit requirements.

If you have any questions, or require additional information, please call me at (606) 432-1447 ext. 311 or e-mail khaas@summit-engr.com.

Regards,

Kari Haas
Environmental Scientist

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 Short Form C

For additional information contact:
KPDES Branch (502) 564-3410

I. FACILITY LOCATION AND CONTACT INFORMATION	AGENCY USE							

A. Name of business, municipality, company, etc. requesting permit
Sidney Coal Company, Inc

B. Facility Name and Location	C. Facility Owner/Mailing Address
Facility Location Name: 898-0848	Owner Name: Sidney Coal Company, Inc
Facility Location Address (i.e. street, road, etc.): Along KY Route 468, approximately 1.4 miles SE from the junction of KY Routes 466 & 612.	Mailing Street: P.O. Box 299
Facility Location City, State, Zip Code: Sidney, KY 41564	Mailing City, State, Zip Code: Sidney, KY, 41564
	Telephone Number: 606-353-5526

II. FACILITY DESCRIPTION

A. Provide a brief description of activities, products, etc: Provide a brief description of activities, products, etc: The removal of bituminous coal through contour/area mining of the Fireclay, Taylor, and Winifrede coal seams. Drainage control will be provided with one pond and four sediment channels.

B. Standard Industrial Classification (SIC) Code and Description

Principal SIC Code & Description:	1221 – Bituminous Coal & Lignite 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	Sidney, KY

C. Body of water receiving discharge:
Spring Branch and Fraley Branch of Big Creek

D. Facility Site Latitude (degrees, minutes, seconds):	Facility Site Longitude (degrees, minutes, seconds):
37° 40' 28" N	82° 22' 39" E

E. Method used to obtain latitude & longitude (see instructions): 7.5' USGS Topographic Map

F. Facility Dun and Bradstreet Number (DUNS #) (if applicable):

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:
Sidney Coal Company, Inc.	606-353-5526
Operator Mailing Address (Street): P.O. Box 299	
Operator Mailing Address (City, State, Zip Code): Sidney, KY, 41564	
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:
Number of Times Permit Reissued:	Date of Original Permit Issuance:	Sludge Disposal Permit Number:
Kentucky DOW Operational Permit #:	Kentucky DSMRE Permit Number(s): 898-0848	

C. 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		
Solid or Special Waste		
Hazardous Waste - Registration or Permit		

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). The information in this section serves to specifically identify the department, office or individual you designate as responsible for submitting DMR forms to the Division of Water.

A. Name of department, office or official submitting DMRs:	**Sidney Coal Company, Inc.**
B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.)	
DMR Mailing Name:	Sidney Coal Company, Inc.
DMR Mailing Street:	P.O. Box 299
DMR Mailing City, State, Zip Code:	Sidney, KY 41564
DMR Official Telephone Number:	606-353-5526

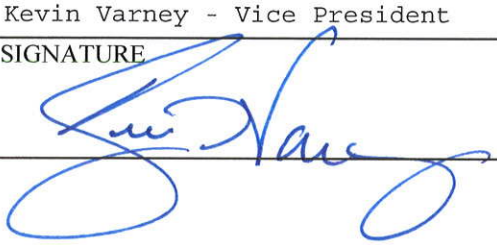
VII. APPLICATION FILING FEE

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 below and in the Form 1 instructions and enclose a check payable to "Kentucky State Treasurer" for the appropriate amount. Descriptions of the base fee amounts are given in the "General Instructions."

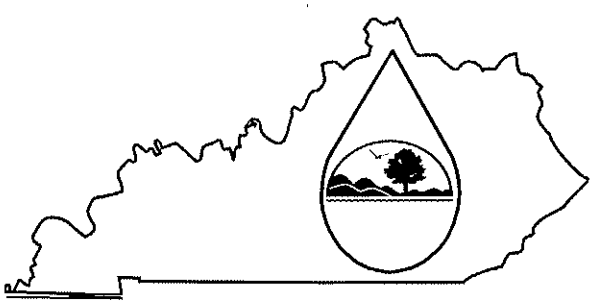
Facility Fee Category: Surface Mining Operation	Filing Fee Enclosed: $660.00

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):	TELEPHONE NUMBER (area code and number):
Kevin Varney - Vice President	(606) 353-7201
SIGNATURE 	DATE: May 5, 2010

KPDES FORM C



KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

PERMIT APPLICATION

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

Name of Facility: Fraley Branch Surface Mine Permit No. 898-0848	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	
FSC1-20	37	40	30	82	21	53	In-Series with FSC1-21
FSC1-21	37	40	32	82	21	56	In-Series with FSC1-22
FSC1-22	37	40	34	82	21	58	Spring Branch
FSC2-23	37	40	38	82	22	01	In-Series with FSC2-24
FSC2-24	37	40	42	82	22	04	In-Series with FSC2-25
FSC2-25	37	40	46	82	22	05	Spring Branch
TSC1-12	37	40	20	82	21	45	In-Series with TSC2-13
TSC1-13	37	40	23	82	21	50	In-Series with TSC2-14
TSC1-14	37	40	25	82	21	53	In-Series with TSC2-15
TSC1-15	37	40	27	82	21	55	Spring Branch
TSC2-16	37	40	21	82	21	42	In-Series with TSC2-17
TSC2-17	37	40	22	82	21	39	In-Series with TSC2-18
TSC2-18	37	40	24	82	21	45	Spring Branch
TSC3-19	37	40	28	82	21	47	In-Series with TSC4-27
TSC4-26	37	40	47	82	22	03	In-Series with FSC2-25
TSC3-27	37	40	37	82	21	56	In-Series with TSC4-22
WSC1-11	37	40	28	82	22	12	Fraley Branch

WSC2-1	37	40	30	82	22	16	In-Series with WSC2-2
WSC2-2	37	40	32	82	22	21	Fraley Branch
WSC3-3	37	40	35	82	22	24	In-Series with WSC3-4
WSC3-4	37	40	38	82	22	28	In-Series with WSC3-5
WSC3-5	37	40	40	82	22	34	Big Creek
WSC4-6	37	40	42	82	22	36	In-Series with WSC4-7
WSC4-7	37	40	46	82	22	36	Big Creek
WSC5-8	37	40	51	82	22	38	In-Series with WSC5-9
WSC5-9	37	40	57	82	22	37	In-Series with WSC5-10
WSC5-10	37	40	59	82	22	36	Big Creek

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 10 Year (include units)	Description	List Codes from Table C-1
FSC-1	Surface runoff	37.25 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
FSC-2	Surface runoff	42.73 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
TSC-1	Surface runoff	24.48 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
TSC-2	Surface runoff	0.30 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
TSC-3	Surface runoff	54.05 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
TSC-4	Surface runoff	29.50 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
WSC-1	Surface runoff	15.05 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
WSC-2	Surface runoff	12.82 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
WSC-3	Surface runoff	19.31 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
WSC-4	Surface runoff	16.36 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**
WSC-5	Surface runoff	20.63 cfs (peak)	Sedimentation	**1-U**
			Discharge to surface water	**4-A**

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. MAXIMUM 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.

MAXIMUM QUANTITY			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
NONE			

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 use or produce, or expect to use or produce over the next 5 years as an immediate or final product or byproduct?

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

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharge of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☐ Yes (Complete Item VI-C) ☒ No (Go to Item VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail to the best of your ability at this time the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years. Continue on additional sheets if you need more space.

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)

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):
Kevin Varney - Vice President	(606) 353-7201
SIGNATURE	DATE
	May 5, 2010

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)

V. INTAKE AND EFFLUENT CHARACTERISTICS (Continued from page 3 of Form C)											OUTFALL NO.		
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		
a. Biochemical Oxygen Demand (BOD)													
b. Chemical Oxygen Demand (COD)													
c. Total Organic Carbon (TOC)													
d. Total Suspended Solids (TSS)													
e. Ammonia (as N)													
f. Flow (in units of MGD)													
g. Temperature (winter)													
h. Temperature (summer)													
i. pH													

INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE

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	
a. Bromide (24959-67-9)														
b. Bromine Total Residual														
c. Chloride														
d. Chlorine, Total Residual														
e. Color														
f. Fecal Coliform														
g. Fluoride (16984-48-8)														
h. Hardness (as $CaCO_3$)														
i. Nitrate – Nitrite (as N)														
j. Nitrogen, Total Organic (as N)														
k. Oil and Grease														
l. Phosphorous (as P), Total 7723-14-0														
m. Radioactivity														
(1) Alpha, Total														
(2) Beta, Total														
(3) Radium Total														
(4) Radium, 226, Total														

INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE

Part B - Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)		
	a. Believed Present	b. Believed Absent	a. Maximum Daily Value (1) Concentration	a. Maximum Daily Value (2) Mass	b. Maximum 30-Day Value (if available) (1) Concentration	b. Maximum 30-Day Value (if available) (2) Mass	c. Long-Term Avg. Value (if available) (1) Concentration	c. Long-Term Avg. Value (if available) (2) Mass	d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg. Value (1) Concentration	a. Long-Term Avg. Value (2) Mass	b. No. of Analyses
n. Sulfate (as SO_4) (14808-79-8)														
o. Sulfide (as S)														
p. Sulfite (as SO_4) (14286-46-3)														
q. Surfactants														
r. Aluminum, Total (7429-90)														
s. Barium, Total (7440-39-3)														
t. Boron, Total (7440-42-8)														
u. Cobalt, Total (7440-48-4)														
v. Iron, Total (7439-89-6)														
w. Magnesium Total (7439-96-4)														
x. Molybdenum Total (7439-98-7)														
y. Manganese, Total (7439-96-6)														
z. Tin, Total (7440-31-5)														
aa. Titanium, Total (7440-32-6)														

INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE

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														
1M. Antimony Total (7440-36-0)														
2M. Arsenic, Total (7440-38-2)														
3M. Beryllium Total (7440-41-7)														
4M. Cadmium Total (7440-43-9)														
5M. Chromium Total (7440-43-9)														
6M. Copper Total (7550-50-8)														
7M. Lead Total (7439-92-1)														
8M. Mercury Total (7439-97-6)														
9M. Nickel, Total (7440-02-0)														
10M. Selenium, Total (7782-49-2)														
11M. Silver, Total (7440-28-0)														

INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE

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 (1) Concentration	a. Maximum Daily Value (2) Mass	b. Maximum 30-Day Value (if available) (1) Concentration	b. Maximum 30-Day Value (if available) (2) Mass	c. Long-Term Avg. Value (if available) (1) Concentration	c. Long-Term Avg. Value (if available) (2) Mass	d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value (1) Concentration	a. Long-Term Avg Value (2) Mass	b. No. of Analyses
METALS, CYANIDE AND TOTAL PHENOLS (Continued)															
12M. Thallium, Total (7440-28-0)	INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE														
13M. Zinc, Total (7440-66-6)															
14M. Cyanide, Total (57-12-5)															
15M. Phenols, Total															
DIOXIN															
2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6)	INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE														
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE														
2V. Acrylonitrile (107-13-1)															
3V. Benzene (71-43-2)															
5V. Bromoform (75-25-2)															
6V. Carbon Tetrachloride (56-23-5)															
7V. Chloro-benzene (108-90-7)															
8V. Chlorodibro-momethane (124-48-1)															

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	
9V. Chloroethane (74-00-3)															
10V. 2-Chloro-ethylvinyl Ether (110-75-8)															
11V. Chloroform (67-66-3)															
12V. Dichloro-bromomethane (75-71-8)															
14V. 1,1-Dichloroethane (75-34-3)															
15V. 1,2-Dichloroethane (107-06-2)															
16V. 1,1-Dichlorethylene (75-35-4)															
17V. 1,2-Di-chloropropane (78-87-5)															
18V. 1,3-Dichloropro-pylene (452-75-6)															
19V. Ethyl-benzene (100-41-4)															
20V. Methyl Bromide (74-83-9)															

INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE

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	
21V. Methyl Chloride (74-87-3)															
22V. Methylene Chloride (75-00-2)															
23V. 1,1,2,2-Tetrachloro-ethane (79-34-5)															
24V. Tetrachloro-ethylene (127-18-4)															
25V. Toluene (108-88-3)															
26V. 1,2-Trans-Dichloro-ethylene (156-60-5)															
27V. 1,1,1-Tri-chloroethane (71-55-6)															
28V. 1,1,2-Tri-chloroethane (79-00-5)															
29V. Trichloro-ethylene (79-01-6)															
30V. Vinyl Chloride (75-01-4)															

INFORMATION WILL BE PROVIDED IN ACCORDANCE WITH KPDES REQUIREMENTS FOLLOWING PERMIT ISSUANCE

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 (1) Concentration	a. Maximum Daily Value (2) Mass	b. Maximum 30-Day Value (if available) (1) Concentration	b. Maximum 30-Day Value (if available) (2) Mass	c. Long-Term Avg. Value (if available) (1) Concentration	c. Long-Term Avg. Value (if available) (2) Mass	d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value (1) Concentration	a. Long-Term Avg Value (2) Mass	b. No. of Analyses
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chloro-phenol (95-57-8)															
2A. 2,4-Dichlor-Orophenol (120-83-2)															
3A. 2,4-Dimeth-ylphenol (105-67-9)															
4A. 4,6-Dinitro-o-cresol (534-52-1)															
5A. 2,4-Dinitro-phenol (51-28-5)															
6A. 2-Nitro-phenol (88-75-5)															
7A. 4-Nitro-phenol (100-02-7)															
8A. P-chloro-m-cresol (59-50-7)															
9A. Pentachloro-phenol (87-88-5)															
10A. Phenol (108-05-2)															
11A. 2,4,6-Tri-chlorophenol (88-06-2)															
1B. Acena-phthene (83-32-9)															

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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	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)														
2B. Acenaphtylene (208-96-8)														
3B. Anthracene (120-12-7)														
4B. Benzidine (92-87-5)														
5B. Benzo(a)-anthracene (56-55-3)														
6B. Benzo(a)-pyrene (50-32-8)														
7B. 3,4-Benzo-fluoranthene (205-99-2)														
8B. Benzo(ghi) perylene (191-24-2)														
9B. Benzo(k)-fluoranthene (207-08-9)														
10B. Bis(2-chlor-oethoxy)-methane (111-91-1)														
11B. Bis (2-chlor-oisopropyl)-Ether														
12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7)														

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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	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)														
13B. 4-Bromo-phenyl Phenyl ether (101-55-3)														
14B. Butyl-benzyl phthalate (85-68-7)														
15B. 2-Chloro-naphthalene (7005-72-3)														
16B. 4-Chloro-phenyl phenyl ether (7005-72-3)														
17B. Chrysene (218-01-9)														
18B. Dibenzo-(a,h) Anthracene (53-70-3)														
19B. 1,2-Dichloro-benzene (95-50-1)														
20B. 1,3-Dichloro-Benzene (541-73-1)														
21B. 1,4-Dichloro-benzene (106-46-7)														
22B. 3,3-Dichloro-benzidene (91-94-1)														
23B. Diethyl Phthalate (84-66-2)														

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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 (1) Concentration	a. Maximum Daily Value (2) Mass	b. Maximum 30-Day Value (if available) (1) Concentration	b. Maximum 30-Day Value (if available) (2) Mass	c. Long-Term Avg. Value (if available) (1) Concentration	c. Long-Term Avg. Value (if available) (2) Mass	d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg. Value (1) Concentration	a. Long-Term Avg. Value (2) Mass	b. No. of Analyses
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)															
24B. Dimethyl Phthalate (131-11-3)															
25B. Di-N-butyl Phthalate (84-74-2)															
26B. 2,4-Dinitro-toluene (121-14-2)															
27B. 2,6-Dinitro-toluene (606-20-2)															
28B. Di-n-octyl Phthalate (117-84-0)															
29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7)															
30B. Fluoranthene (208-44-0)															
31B. Fluorene (86-73-7)															
32B. Hexachloro-benzene (118-71-1)															
33B. Hexachloro-butadiene (87-68-3)															
34B. Hexachloro-cyclopenta-diene (77-47-4)															

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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 (1) Concentration	a. Maximum Daily Value (2) Mass	b. Maximum 30-Day Value (if available) (1) Concentration	b. Maximum 30-Day Value (if available) (2) Mass	c. Long-Term Avg. Value (if available) (1) Concentration	c. Long-Term Avg. Value (if available) (2) Mass	d. No. of Analyses	a. Concentration	b. Mass	a. Long-Term Avg Value (1) Concentration	a. Long-Term Avg Value (2) Mass	b. No. of Analyses
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (Continued)															
35B. Hexachloroethane (67-72-1)															
36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5)															
37B. Isophorone (78-59-1)															
38B. Napthalene (91-20-3)															
39B. Nitrobenzene (98-95-3)															
40B. N-Nitrosodimethylamine (62-75-9)															
41B. N-nitrosodi-n-propylamine (621-64-7)															
42B. N-nitrosodiphenylamine (86-30-6)															
43B. Phenanthrene (85-01-8)															
44B. Pyrene (129-00-0)															
45B. 1,2,4 Trichlorobenzene (120-82-1)															

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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	
GC/MS FRACTION – PESTICIDES														
1P. Aldrin (309-00-2)														
2P. α-BHC (319-84-6)														
3P. β-BHC (58-89-9)														
4P. gamma-BHC (58-89-9)														
5P. δ-BHC (319-86-8)														
6P. Chlordane (57-74-9)														
7P. 4,4'-DDT (50-29-3)														
8P. 4,4'-DDE (72-55-9)														
9P. 4,4'-DDD (72-54-8)														
10P. Dieldrin (60-57-1)														
11P. α-Endosulfan (115-29-7)														
12P. β-Endosulfan (115-29-7)														
13P. Endosulfan Sulfate (1031-07-8)														
14P. Endrin (72-20-8)														

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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	
GC/MS FRACTION – PESTICIDES														
15P. Endrin Aldehyde (7421-93-4)														
16P Heptachlor (76-44-8)														
17P. Heptaclor Epoxide (1024-57-3)														
18P. PCB-1242 (53469-21-9)														
19P. PCB-1254 (11097-69-1)														
20P. PCB-1221 (11104-28-2)														
21P. PCB-1232 (11141-16-5)														
22P. PCB-1248 (12672-29-6)														
23P. PCB-1260 (11096-82-5)														
24P. PCB-1016 (12674-11-2)														
25P. Toxaphene (8001-35-2)														

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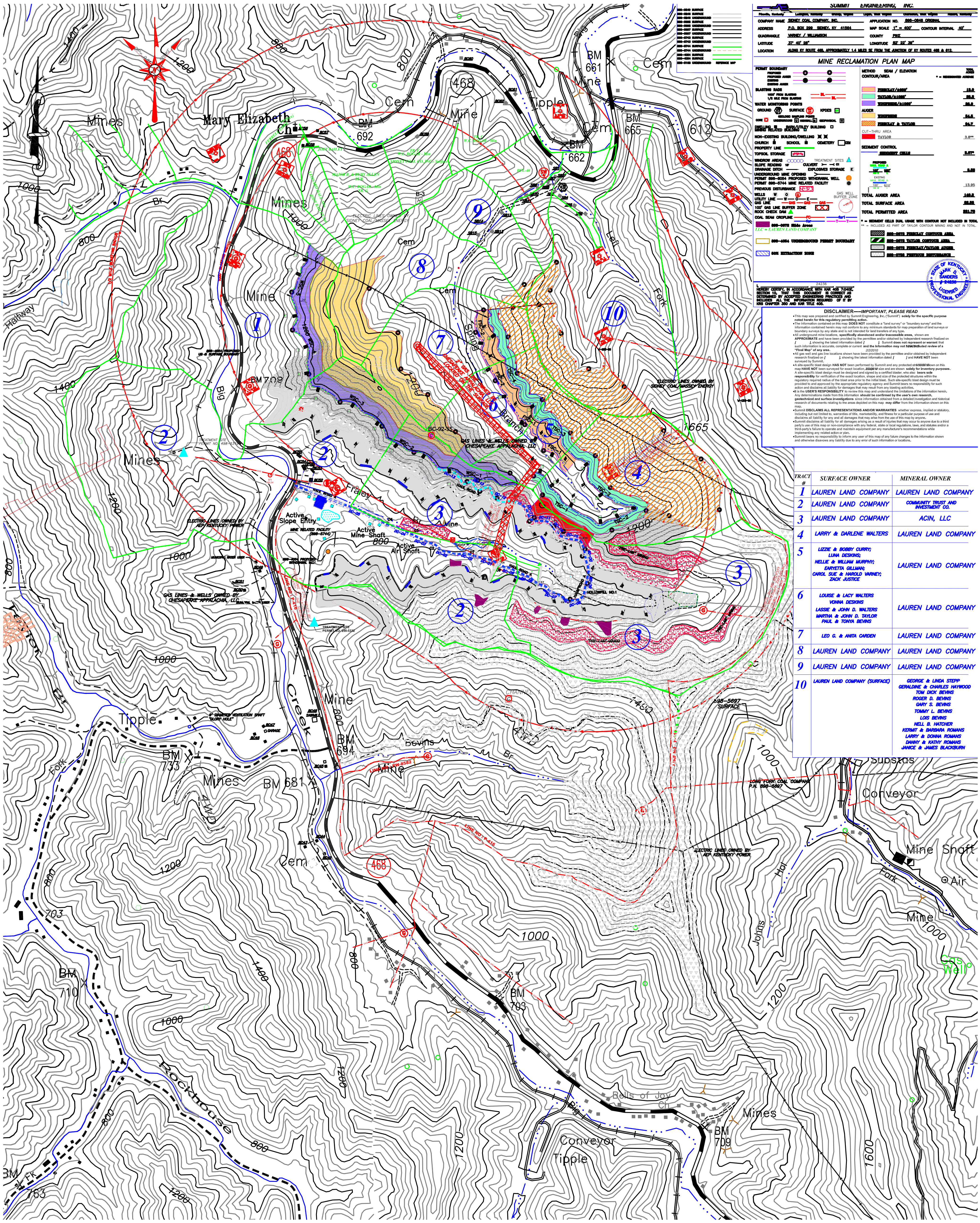
SUMMIT ENGINEERING, INC.
Pikeville, Kentucky
Lexington, Kentucky
Grundy, Virginia
Logan, West Virginia
Charleston, West Virginia
Hazard, Kentucky
COMPANY NAME SIDNEY COAL COMPANY, INC.
APPLICATION NO. 898-0848 ORIGINAL
ADDRESS P.O. BOX 299 SIDNEY, KY 41564
MAP SCALE 1" = 400'
CONTOUR INTERVAL 40'
QUADRANGLE VARNEY / WILLIAMSON
COUNTY PIKE
LATITUDE 37° 40' 28"
LONGITUDE 82° 22' 39"
LOCATION ALONG KY ROUTE 468, APPROXIMATELY 1.4 MILES SE FROM THE JUNCTION OF KY ROUTES 468 & 612.
MINE RECLAMATION PLAN MAP
PERMIT BOUNDARY
PROPOSED
PROPOSED AUGER
EXISTING
EXISTING AUGER
BLASTING RADII
1000' FROM BLASTING
1/2 MILE FROM BLASTING
WATER MONITORING POINTS
GROUND
SURFACE
KPDES
GEOLOGIC SAMPLING POINTS
CORE
UNDERGROUND
HIGHWALL
GEOPHYSICAL
DWELLING
BARN/UTILITY BUILDING
MINING RELATED BUILDING
NON-EXISTING BUILDING/DWELLING
CHURCH
SCHOOL
CEMETERY
PROPERTY LINE
TOPSOIL STORAGE
WINDROW AREAS
TREATMENT SITES
SLOPE READING
CULVERT
DRAINAGE DITCH
EXPLOSIVES STORAGE
UNDERGROUND MINE OPENING
PERMIT 898-8054 PROPOSED WITHDRAWAL WELL
PERMIT 898-5744 MINE RELATED FACILITY
PREVIOUS DISTURBANCE
WELLS
UTILITY LINE
GAS LINE
100' GAS LINE BUFFER ZONE
GAS WELL BUFFER ZONE
ROCK CHECK DAM
COAL SEAM CROPLINE
898-0872 Slide Areas
LLC = LAUREN LAND COMPANY
898-4054 UNDERGROUND PERMIT BOUNDARY
50% EXTRACTION ZONE
METHOD SEAM / ELEVATION
CONTOUR/AREA
TOTAL ACRES
* = REDESIGNATED ACREAGE
FIRECLAY/±950' 19.0
TAYLOR/±1085' 25.2
WINIFREDE/±1060' 26.9
AUGER
WINIFREDE 54.5
FIRECLAY & TAYLOR 94.7
CUT-THRU AREA
TAYLOR 3.8**
SEDIMENT CONTROL
SEDIMENT CELLS 3.67*
PROPOSED HAUL ROAD A 3.58
EXISTING HAUL ROAD A 13.95
TOTAL AUGER AREA 149.2
TOTAL SURFACE AREA 88.68
TOTAL PERMITTED AREA 221.72
* = SEDIMENT CELLS DUAL USAGE WITH CONTOUR NOT INCLUDED IN TOTAL
** = INCLUDED AS PART OF TAYLOR CONTOUR MINING AND NOT IN TOTAL.
898-0872 FIRECLAY CONTOUR AREA
898-0872 TAYLOR CONTOUR AREA
898-0872 FIRECLAY/TAYLOR AUGER
898-0756 PREVIOUS DISTURBANCE
STATE OF KENTUCKY
MARK D. SANDERS
24236
LICENSED PROFESSIONAL ENGINEER
24236
I, HEREBY CERTIFY, IN ACCORDANCE WITH KAR 405 7:040E, SECTION 10, THAT THIS DOCUMENT IS CORRECT AS DETERMINED BY ACCEPTED ENGINEERING PRACTICES AND INCLUDES ALL THE INFORMATION REQUIRED OF IT BY KRS CHAPTER 350 AND KAR TITLE 405.
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•All underground mine locations, specifically abandoned and/or inaccessible areas, shown are APPROXIMATE and have been provided by the permittee and/or obtained by independent research finalized on [ ], showing the latest information dated [ ]. Summit does not represent or warrant that such information is accurate, complete or current and the information may not have included review of a "Final Map" of any area. 2/2/2010
•All gas well and gas line locations shown have been provided by the permittee and/or obtained by independent research finalized on [ ], showing the latest information dated [ ] and HAVE NOT been surveyed by Summit.
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TRACT # SURFACE OWNER MINERAL OWNER
1 LAUREN LAND COMPANY LAUREN LAND COMPANY
2 LAUREN LAND COMPANY COMMUNITY TRUST AND INVESTMENT CO.
3 LAUREN LAND COMPANY ACIN, LLC
4 LARRY & DARLENE WALTERS LAUREN LAND COMPANY
5 LIZZIE & BOBBY CURRY; LUNA DESKINS; NELLIE & WILLIAM MURPHY; EARYETTA GILLMAN; CAROL SUE & HAROLD VARNEY; ZACK JUSTICE LAUREN LAND COMPANY
6 LOUISE & LACY WALTERS; VONNA DESKINS; LASSIE & JOHN D. WALTERS; MARTHA & JOHN D. TAYLOR; PAUL & TONYA BEVINS LAUREN LAND COMPANY
7 LEO G. & ANITA CARDEN LAUREN LAND COMPANY
8 LAUREN LAND COMPANY LAUREN LAND COMPANY
9 LAUREN LAND COMPANY LAUREN LAND COMPANY
10 LAUREN LAND COMPANY (SURFACE) GEORGE & LINDA STEPP; GERALDINE & CHARLES HAYWOOD; TOM DICK BEVINS; ROGER D. BEVINS; GARY S. BEVINS; TOMMY L. BEVINS; LOIS BEVINS; NELL B. HATCHER; KERMIT & BARBARA ROMANS; LARRY & DONNA ROMANS; DANNY & KATHY ROMANS; JANICE & JAMES BLACKBURN
Mary Elizabeth Ch
Mines
Cem
Mine
Tipple
BM 692
BM 661
BM 662
BM 665
BM 709
BM 694
BM 681
BM 733
BM 703
BM 710
BM 763
468
612
ELECTRIC LINES OWNED BY SIDNEY COAL/MASSEY ENERGY
ELECTRIC LINES OWNED BY AEP KENTUCKY POWER
GAS LINES & WELLS OWNED BY CHESAPEAKE APPALACHIA, LLC
2" GAS LINE OWNED BY CHESAPEAKE APPALACHIA, LLC LOCATED ON THE SURFACE
898-4054 PROPOSED UG & SURFACE BOUNDARY
TREATMENT SITE PERMIT NO. 498-5319
TREATMENT SITE PERMIT NO. 298-5332
Active Slope Entry
MINE RELATED FACILITY (898-5744)
Active Mine Shaft
Active Air Shaft
898-4054 PROPOSED WITHDRAWAL
HAUL ROAD A
HOLLOWFILL NO.1
BC-92-35
9' DIAMETER VENTILATION SHAFT "GLORY HOLE"
LINE NO.: P-416
LINE NO.: PW-8582
898-5697 SURFACE
LONG FORK COAL COMPANY P.N. 898-5697
CHANNEL 1
Big Creek
Fraley Br
Left Fork
Spring Branch
Bevins Br
Rockhouse
Johns Hol
Halfway
Substa
Conveyor
Mine Shaft
Air
Gas Well
Bells of Joy Ch
1665