KPDES FORM 1

AI: 98885

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

NOV - 8 2007

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: $240.00
KPDES Branch (502) 564-3410

I. FACILITY LOCATION AND CONTACT INFORMATION	AGENCY USE	0	1	0	7	1	5	8

A. Name of business, municipality, company, etc. requesting permit
Phoenix Coal Processing Company

B. Facility Name and Location	C. Facility Owner/Mailing Address
Facility Location Name: CEF Kentucky #1	Owner Name: Phoenix Coal Processing Company
Facility Location Address (i.e. street, road, etc.): Star Queen Road off KY-181	Mailing Street: 1215 Nebo Rd., Suite A
Facility Location City, State, Zip Code: eenville, KY 42345	Mailing City, State, Zip Code: Madisonville, KY 42431
	Telephone Number: 801-984-9400

II. FACILITY DESCRIPTION

A. Provide a brief description of activities, products, etc: This is a dredging operation that will recover coal fines from a slurry impoundment. Additional refuse will be dry mined. The recovered coal products will be processed through a coal washing facility. The clean coal product will be sold. The remaining liquid mixture of water and refuse will be returned to the slurry impoundment.

B. Standard Industrial Classification (SIC) Code and Description

Principal SIC Code & Description:	Coal preparation – Primary SIC #: 1221		
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: Muhlenburg	City where facility is located (if applicable): North of Greenville
C. Body of water receiving discharge: Cypress Creek	
D. Facility Site Latitude (degrees, minutes, seconds): 37 degrees, 16 minutes, 36.12 seconds	Facility Site Longitude (degrees, minutes, seconds): -87 degrees, 12 minutes, 40.7 seconds
E. Method used to obtain latitude & longitude (see instructions):	GPS
F. Facility Dun and Bradstreet Number (DUNS #) (if applicable):	786195701

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:
Operator Mailing Address (Street):	
Operator Mailing Address (City, State, Zip Code):	
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: [redacted]	Issue Date of Current Permit: 1/17/2003	Expiration Date of Current Permit: 12/31/2008
Number of Times Permit Reissued:	Date of Original Permit Issuance: 11/30/1992	Sludge Disposal Permit Number: N/A
Kentucky DOW Operational Permit #: N/A	Kentucky DSMRE Permit Number(s): 889-8004	

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		10/30/2007
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). 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:	CEF Kentucky #1
B. Address where DMR forms are to be sent. (Complete only if address is different from mailing address in Section I.)	
DMR Mailing Name:	Same as in Section I.B.
DMR Mailing Street:	
DMR Mailing City, State, Zip Code:	
DMR Official Telephone Number:	

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:	Filing Fee Enclosed:
Surface Mining Operation	$240

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):
MATHEW A. HAAGA COO - PHOENIX COAL	(270) 339-8391 801-984-9400
SIGNATURE Mathew A Haaga	DATE: 11/07/07

KPDES FORM C

KENTUCKY POLLUTANT DISCHARGE ELIMINATION SYSTEM

NOV - 8 2007

PERMIT APPLICATION

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

Name of Facility Phoenix Coal Processing	County: **Muhlenberg**						
I. OUTFALL LOCATION	AGENCY USE	0	1	0	7	1	5	8

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	
207	**37**	**16**	**19.4**	**87**	**14**	**01**	**Unnamed tributary of Cypress Creek**
277	**37**	**16**	**19.4**	**87**	**12**	**43**	**Unnamed tributary of Cypress Creek**
278 Proposed	**37**	**16**	**41**	**87**	**12**	**44**	**Unnamed tributary of Cypress 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 (include units)	Description	List Codes from Table C-1
207	**811.78 acres watershed**	**Precipitation dependent**	**Sedimentation**	**1-U,**
277	**91 acres watershed**	"	"	"
278	**88 acre watershed**	"	"	"

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
No significant concentrations of toxic pollutants or hazardous substances are believed to be present in any outfall.			

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)
SGS North America, Inc. Mineral Services Division	**618 Bob Posey Street P.O. Box 752 Henderson, KY 42419**	**270-827-1187**	**See Part A and B**

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):
MATHEW A. HAAGA COO - PHOENIX COAL	(870) 339-8391
SIGNATURE Mathew A Haaga	DATE 11/07/07

SGS

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#1 Big Reno	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#1 Big Reno
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	21

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-001

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
GENERAL WATER QUALITY						
Oxygen Demand, Biochemical (BOD5	2 mg/L	SM 5210-B	2	10/23/2007	15:30	JD
Hardness, Total as CaCO3	1362 mg/L	SM2340-C	1	10/18/2007	09:32	RC
Cyanide, Total	<0.02 mg/L	SM4500-CE	0.02	10/22/2007	14:00	JD
Chloride	6 mg/L	SM4500-CL-C	1	10/18/2007	11:43	JR
Sulfate	1636 mg/L	SM4500-SO4-E	1	10/22/2007	11:33	JR
Phenols, Total	<0.05 mg/L	EPA 420.1	0.05	10/23/2007	12:00	KET
COD as mg O2/L	3.00 mg/L	SW-846 SM 5220 C	0.01	10/18/2007	07:00	WM
pH	7.66 s. u.	SM4500-H-B	0.01	10/18/2007	10:08	JR
Suspended Solids	6 mg/L	SM2540-D	2	10/18/2007	11:44	JR
Aluminum, Total	<0.1 mg/L	SM3120-B	0.1	10/22/2007	10:02	RC
Antimony, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:03	RC
Arsenic, Total	<0.005 mg/L	SM3120-B	0.005	10/22/2007	10:03	RC
Beryllium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Cadmium, Total	<0.002 mg/L	SM3120-B	0.002	10/22/2007	10:04	RC
Chromium, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:04	RC
Copper, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Iron, Total	0.05 mg/L	SM3120-B	0.05	10/22/2007	10:02	RC
Lead, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:05	RC
Magnesium, Total	177 mg/L	SM3120-B	1	10/22/2007	10:02	RC
Manganese, Total	0.45 mg/L	SM3120-B	0.02	10/22/2007	10:03	RC
Mercury, Total	<0.0002 mg/L	SM3120-B	0.0002	10/23/2007	15:00	KET
Nickel, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Selenium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Silver, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Thallium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Zinc, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:06	RC
Ammonia Nitrogen, Total	0.76 mg/L	SM4500-NH3-E	0.05	10/18/2007	11:43	RC

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#1 Big Reno	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#1 Big Reno
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	21

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-001

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
ORGANIC CARBON						
Total Organic Carbon	3.60 mg/L	SM 5310-C	0.5	10/25/2007	12:15	PWB

SGS

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#2 Pump Pond	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#2 Pump Pond
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	25

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-002

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
GENERAL WATER QUALITY						
Oxygen Demand, Biochemical (BOD5	<2 mg/L	SM 5210-B	2	10/23/2007	15:30	JD
Hardness, Total as CaCO3	1340 mg/L	SM2340-C	1	10/18/2007	09:32	RC
Cyanide, Total	<0.02 mg/L	SM4500-CE	0.02	10/22/2007	14:00	JD
Chloride	3 mg/L	SM4500-CL-C	1	10/18/2007	11:43	JR
Sulfate	1136 mg/L	SM4500-SO4-E	1	10/22/2007	11:33	JR
Phenols, Total	<0.05 mg/L	EPA 420.1	0.05	10/23/2007	12:00	KET
COD as mg O2/L	<0.01 mg/L	SW-846 SM 5220 C	0.01	10/18/2007	07:00	WM
pH	7.67 s. u.	SM4500-H-B	0.01	10/18/2007	10:08	JR
Suspended Solids	3 mg/L	SM2540-D	2	10/18/2007	11:44	JR
Aluminum, Total	<0.1 mg/L	SM3120-B	0.1	10/22/2007	10:02	RC
Antimony, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:03	RC
Arsenic, Total	<0.005 mg/L	SM3120-B	0.005	10/22/2007	10:03	RC
Beryllium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Cadmium, Total	<0.002 mg/L	SM3120-B	0.002	10/22/2007	10:04	RC
Chromium, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:04	RC
Copper, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Iron, Total	<0.05 mg/L	SM3120-B	0.05	10/22/2007	10:02	RC
Lead, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:05	RC
Magnesium, Total	170 mg/L	SM3120-B	1	10/22/2007	10:02	RC
Manganese, Total	0.39 mg/L	SM3120-B	0.02	10/22/2007	10:03	RC
Mercury, Total	<0.0002 mg/L	SM3120-B	0.0002	10/23/2007	15:00	KET
Nickel, Total	0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Selenium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Silver, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Thallium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Zinc, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:06	RC
Ammonia Nitrogen, Total	0.18 mg/L	SM4500-NH3-E	0.05	10/18/2007	11:43	RC

SGS

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#2 Pump Pond	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#2 Pump Pond
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	25

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-002

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
ORGANIC CARBON						
Total Organic Carbon	3.23 mg/L	SM 5310-C	0.5	10/25/2007	12:15	PWB

SGS

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#3 Air Strip Pond	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#3 Air Strip Pond
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	25

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-003

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
GENERAL WATER QUALITY						
Oxygen Demand, Biochemical (BOD5	2 mg/L	SM 5210-B	2	10/23/2007	15:30	JD
Hardness, Total as CaCO3	1348 mg/L	SM2340-C	1	10/18/2007	09:32	RC
Cyanide, Total	<0.02 mg/L	SM4500-CE	0.02	10/22/2007	14:00	JD
Chloride	2 mg/L	SM4500-CL-C	1	10/18/2007	11:43	JR
Sulfate	1116 mg/L	SM4500-SO4-E	1	10/22/2007	11:33	JR
Phenols, Total	<0.05 mg/L	EPA 420.1	0.05	10/23/2007	12:00	KET
COD as mg O2/L	<0.01 mg/L	SW-846 SM 5220 C	0.01	10/18/2007	07:00	WM
pH	7.42 s. u.	SM4500-H-B	0.01	10/18/2007	10:08	JR
Suspended Solids	<2 mg/L	SM2540-D	2	10/18/2007	11:44	JR
Aluminum, Total	<0.1 mg/L	SM3120-B	0.1	10/22/2007	10:02	RC
Antimony, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:03	RC
Arsenic, Total	<0.005 mg/L	SM3120-B	0.005	10/22/2007	10:03	RC
Beryllium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Cadmium, Total	<0.002 mg/L	SM3120-B	0.002	10/22/2007	10:04	RC
Chromium, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:04	RC
Copper, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Iron, Total	<0.05 mg/L	SM3120-B	0.05	10/22/2007	10:02	RC
Lead, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:05	RC
Magnesium, Total	153 mg/L	SM3120-B	1	10/22/2007	10:02	RC
Manganese, Total	0.07 mg/L	SM3120-B	0.02	10/22/2007	10:03	RC
Mercury, Total	<0.0002 mg/L	SM3120-B	0.0002	10/23/2007	15:00	KET
Nickel, Total	0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Selenium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Silver, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Thallium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Zinc, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:06	RC
Ammonia Nitrogen, Total	0.14 mg/L	SM4500-NH3-E	0.05	10/18/2007	11:43	RC

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#3 Air Strip Pond	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#3 Air Strip Pond
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	25

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-003

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
ORGANIC CARBON						
Total Organic Carbon	0.96 mg/L	SM 5310-C	0.5	10/25/2007	12:15	PWB

SGS

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#4 PHX Pond	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#4 PHX Pond
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	24

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-004

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
GENERAL WATER QUALITY						
Oxygen Demand, Biochemical (BOD5	<2 mg/L	SM 5210-B	2	10/23/2007	15:30	JD
Hardness, Total as CaCO3	2004 mg/L	SM2340-C	1	10/18/2007	09:32	RC
Cyanide, Total	<0.02 mg/L	SM4500-CE	0.02	10/22/2007	14:00	JD
Chloride	6 mg/L	SM4500-CL-C	1	10/18/2007	11:43	JR
Sulfate	1928 mg/L	SM4500-SO4-E	1	10/22/2007	11:33	JR
Phenols, Total	<0.05 mg/L	EPA 420.1	0.05	10/23/2007	12:00	KET
COD as mg O2/L	<0.01 mg/L	SW-846 SM 5220 C	0.01	10/18/2007	07:00	WM
pH	6.79 s. u.	SM4500-H-B	0.01	10/18/2007	10:08	JR
Suspended Solids	4 mg/L	SM2540-D	2	10/18/2007	11:44	JR
Aluminum, Total	<0.1 mg/L	SM3120-B	0.1	10/22/2007	10:02	RC
Antimony, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:03	RC
Arsenic, Total	<0.005 mg/L	SM3120-B	0.005	10/22/2007	10:03	RC
Beryllium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Cadmium, Total	<0.002 mg/L	SM3120-B	0.002	10/22/2007	10:04	RC
Chromium, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:04	RC
Copper, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:04	RC
Iron, Total	0.26 mg/L	SM3120-B	0.05	10/22/2007	10:02	RC
Lead, Total	<0.02 mg/L	SM3120-B	0.02	10/22/2007	10:05	RC
Magnesium, Total	128 mg/L	SM3120-B	1	10/22/2007	10:02	RC
Manganese, Total	3.41 mg/L	SM3120-B	0.02	10/22/2007	10:03	RC
Mercury, Total	<0.0002 mg/L	SM3120-B	0.0002	10/23/2007	15:00	KET
Nickel, Total	0.12 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Selenium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Silver, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Thallium, Total	<0.01 mg/L	SM3120-B	0.01	10/22/2007	10:05	RC
Zinc, Total	0.06 mg/L	SM3120-B	0.01	10/22/2007	10:06	RC
Ammonia Nitrogen, Total	14.72 mg/L	SM4500-NH3-E	0.05	10/18/2007	11:43	RC

SGS

October 26, 2007

COVOL ENGINEERED FUEL LLC
HEADWATER INCORPORTED
10653 SOUTH RIVER FRONT PKWY
STE 300
SOUTH JORDAN UT 84095

Client Sample ID:	#4 PHX Pond	Sample Taken By	JO
Date Sampled:	Oct 17, 2007	Field - Flow	
Date Received:	Oct 17, 2007	Sample Point	#4 PHX Pond
Product Description:	WATER	Sample Method	GRAB
		Field - Temperature	24

Comments: This report/certificate cancels and supersedes the report/certificate dated 10/25/2007 issued by SGS Minerals Henderson Branch.

SGS Minerals Sample ID: 511-0708317-004

PARAMETER	RESULT	METHOD	REGULATORY LEVEL	ANALYZED DATE	TIME	ANALYST
ORGANIC CARBON						
Total Organic Carbon	2.43 mg/L	SM 5310-C	0.5	10/25/2007	12:15	PWB

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. 207**

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 a. Maximum Daily Value (1) Concentration	2. EFFLUENT a. Maximum Daily Value (2) Mass	2. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration	2. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass	2. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration	2. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass	2. EFFLUENT d. No. of Analyses	3. UNITS (specify if blank) a. Concentration	3. UNITS (specify if blank) b. Mass	4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration	4. INTAKE (optional) a. Long-Term Avg. Value (2) Mass	4. INTAKE (optional) b. No of Analyses
a. Biochemical Oxygen Demand (BOD)	<2						1	Mg/l				
b. Chemical Oxygen Demand (COD)	<0.01						1	Mg/l				
c. Total Organic Carbon (TOC)	2.43						1	Mg/l				
d. Total Suspended Solids (TSS)	4						1	Mg/l				
e. Ammonia (as N)	14.72						1	Mg/l				
f. Flow (in units of MGD)	VALUE 0		VALUE 0		VALUE 0		6	MGD		VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE			°c		VALUE		
h. Temperature (summer)	VALUE 24		VALUE		VALUE		1	°c		VALUE		
i. pH	MINIMUM	MAXIMUM 6.79	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 (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
a. Bromide (24959-67-9)		X												
b. Bromine Total Residual		X												
c. Chloride	X	X	6.0						1	Mg/l				
d. Chlorine, Total Residual		X												
e. Color		X												
f. Fecal Coliform		X												
g. Fluoride (16984-48-8)		X												
h. Hardness (as $CaCO_3$)	X		2004						1	Mg/l				
i. Nitrate – Nitrite (as N)		X												
j. Nitrogen, Total Organic (as N)		X												
k. Oil and Grease		X												
l. Phosphorous (as P), Total 7723-14-0		X												
m. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium Total		X												
(4) Radium, 226, Total		X												

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		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	
n. Sulfate (as SO_4) (14808-79-8)	X		1928						1	Mg/l				
o. Sulfide (as S)		X												
p. Sulfite (as SO_4) (14286-46-3)		X												
q. Surfactants		X												
r. Aluminum, Total (7429-90)	X		<0.01						1	Mg/l				
s. Barium, Total (7440-39-3)		X												
t. Boron, Total (7440-42-8)		X												
u. Cobalt, Total (7440-48-4)		X												
v. Iron, Total (7439-89-6)	X		0.26						1	Mg/l				
w. Magnesium Total (7439-96-4)	X		128						1	Mg/l				
x. Molybdenum Total (7439-98-7)		X	128						1	Mg/l				
y. Manganese, Total (7439-96-6)	X		3.41						1	Mg/l				
z. Tin, Total (7440-31-5)		X												
aa. Titanium, Total (7440-32-6)		X												

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)	X			<0.01						1	Mg/l				
2M. Arsenic, Total (7440-38-2)	X			<0.005						1	Mg/l				
3M. Beryllium Total (7440-41-7)	X			<0.01						1	Mg/l				
4M. Cadmium Total (7440-43-9)	X			<0.002						1	Mg/l				
5M. Chromium Total (7440-43-9)	X			<0.02						1	Mg/l				
6M. Copper Total (7550-50-8)	X			<0.01						1	Mg/l				
7M. Lead Total (7439-92-1)	X			<0.02						1	Mg/l				
8M. Mercury Total (7439-97-6)	X			<0.0002						1	Mg/l				
9M. Nickel, Total (7440-02-0)	X			0.12						1	Mg/l				
10M. Selenium, Total (7782-49-2)	X			<0.01						1	Mg/l				
11M. Silver, Total (7440-28-0)	X			<0.01						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)															
12M. Thallium, Total (7440-28-0)	X			<0.01						1	Mg/l				
13M. Zinc, Total (7440-66-6)	X			0.06						1	Mg/l				
14M. Cyanide, Total (57-12-5)	X			<0.02						1	Mg/l				
15M. Phenols, Total	X			<0.05						1	Mg/l				
DIOXIN															
2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6)			X	DESCRIBE RESULTS: EXEMPT											
GC/MS FRACTION – VOLATILE COMPOUNDS				**EXEMPT**											
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chloro-benzene (108-90-7)			X												
8V. Chlorodibro-momethane (124-48-1)			X												

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

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

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 – ACID COMPOUNDS															
1A. 2-Chloro-phenol (95-57-8)			X												
2A. 2,4-Dichlor-Orophenol (120-83-2)			X												
3A. 2,4-Dimeth-ylphenol (105-67-9)			X												
4A. 4,6-Dinitro-o-cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)			X												
6A. 2-Nitro-phenol (88-75-5)			X												
7A. 4-Nitro-phenol (100-02-7)			X												
8A. P-chloro-m-cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-88-5)			X												
10A. Phenol (108-05-2)			X												
11A. 2,4,6-Tri-chlorophenol (88-06-2)			X												
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acena-phthene (83-32-9)			X												

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. Acena-phtylene (208-96-8)			X												
3B. Anthra-cene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo(a)-anthracene (56-55-3)			X												
6B. Benzo(a)-pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo(ghl) perylene (191-24-2)			X												
9B. Benzo(k)-fluoranthene (207-08-9)			X												
10B. Bis(2-chlor-oethoxy)-methane (111-91-1)			X												
11B. Bis (2-chlor-oisopropyl)-Ether			X												
12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7)			X												

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)			X												
14B. Butyl-benzyl phthalate (85-68-7)			X												
15B. 2-Chloro-naphthalene (7005-72-3)			X												
16B. 4-Chloro-phenyl phenyl ether (7005-72-3)			X												
17B. Chrysene (218-01-9)			X												
18B. Dibenzo-(a,h) Anthracene (53-70-3)			X												
19B. 1,2-Dichloro-benzene (95-50-1)			X												
20B. 1,3-Dichloro-Benzene (541-73-1)			X												
21B. 1,4-Dichloro-benzene (106-46-7)			X												
22B. 3,3-Dichloro-benzidene (91-94-1)			X												
23B. Diethyl Phthalate (84-66-2)			X												

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)															
24B. Dimethyl Phthalate (131-11-3)			X												
25B. Di-N-butyl Phthalate (84-74-2)			X												
26B. 2,4-Dinitro-toluene (121-14-2)			X												
27B. 2,6-Dinitro-toluene (606-20-2)			X												
28B. Di-n-octyl Phthalate (117-84-0)			X												
29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7)			X												
30B. Fluoranthene (208-44-0)			X												
31B. Fluorene (86-73-7)			X												
32B. Hexachloro-benzene (118-71-1)			X												
33B. Hexachloro-butadiene (87-68-3)			X												
34B. Hexachloro-cyclopenta-diene (77-47-4)			X												

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)															
35B. Hexachloroethane (67-72-1)			X												
36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5)			X												
37B. Isophorone (78-59-1)			X												
38B. Napthalene (91-20-3)			X												
39B. Nitrobenzene (98-95-3)			X												
40B. N-Nitrosodimethylamine (62-75-9)			X												
41B. N-nitrosodi-n-propylamine (621-64-7)			X												
42B. N-nitrosodiphenylamine (86-30-6)			X												
43B. Phenanthrene (85-01-8)			X												
44B. Pyrene (129-00-0)			X												
45B. 1,2,4 Trichlorobenzene (120-82-1)			X												

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

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

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. 277**

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 a. Maximum Daily Value (1) Concentration	2. EFFLUENT a. Maximum Daily Value (2) Mass	2. EFFLUENT b. Maximum 30-Day Value (if available) (1) Concentration	2. EFFLUENT b. Maximum 30-Day Value (if available) (2) Mass	2. EFFLUENT c. Long-Term Avg. Value (if available) (1) Concentration	2. EFFLUENT c. Long-Term Avg. Value (if available) (2) Mass	2. EFFLUENT d. No. of Analyses	3. UNITS (specify if blank) a. Concentration	3. UNITS (specify if blank) b. Mass	4. INTAKE (optional) a. Long-Term Avg. Value (1) Concentration	4. INTAKE (optional) a. Long-Term Avg. Value (2) Mass	4. INTAKE (optional) b. No of Analyses
a. Biochemical Oxygen Demand (BOD)	<2						1	Mg/l				
b. Chemical Oxygen Demand (COD)	<0.01						1	Mg/l				
c. Total Organic Carbon (TOC)	3.23						1	Mg/l				
d. Total Suspended Solids (TSS)	3						1	Mg/l				
e. Ammonia (as N)	0.18						1	Mg/l				
f. Flow (in units of MGD)	VALUE 0		VALUE 0		VALUE 0		6	MGD		VALUE		
g. Temperature (winter)	VALUE		VALUE		VALUE			°c		VALUE		
h. Temperature (summer)	VALUE 25		VALUE		VALUE		1	°c		VALUE		
i. pH	MINIMUM	MAXIMUM 7.67	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	
a. Bromide (24959-67-9)		X												
b. Bromine Total Residual		X												
c. Chloride	X		3.0						1	Mg/l				
d. Chlorine, Total Residual		X												
e. Color		X												
f. Fecal Coliform		X												
g. Fluoride (16984-48-8)		X												
h. Hardness (as $CaCO_3$)	X		1340						1	Mg/l				
i. Nitrate – Nitrite (as N)		X												
j. Nitrogen, Total Organic (as N)		X												
k. Oil and Grease		X												
l. Phosphorous (as P), Total 7723-14-0		X												
m. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium Total		X												
(4) Radium, 226, Total		X												

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)	X		1136						1	Mg/l				
o. Sulfide (as S)		X												
p. Sulfite (as SO_4) (14286-46-3)		X												
q. Surfactants		X												
r. Aluminum, Total (7429-90)	X		<0.01						1	Mg/l				
s. Barium, Total (7440-39-3)		X												
t. Boron, Total (7440-42-8)		X												
u. Cobalt, Total (7440-48-4)		X												
v. Iron, Total (7439-89-6)	X		<0.05						1	Mg/l				
w. Magnesium Total (7439-96-4)	X		170						1	Mg/l				
x. Molybdenum Total (7439-98-7)		X												
y. Manganese, Total (7439-96-6)	X		0.39						1	Mg/l				
z. Tin, Total (7440-31-5)		X												
aa. Titanium, Total (7440-32-6)		X												

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)	X			<0.01						1	Mg/l				
2M. Arsenic, Total (7440-38-2)	X			<0.005						1	Mg/l				
3M. Beryllium Total (7440-41-7)	X			<0.01						1	Mg/l				
4M. Cadmium Total (7440-43-9)	X			<0.002						1	Mg/l				
5M. Chromium Total (7440-43-9)	X			<0.02						1	Mg/l				
6M. Copper Total (7550-50-8)	X			<0.01						1	Mg/l				
7M. Lead Total (7439-92-1)	X			<0.02						1	Mg/l				
8M. Mercury Total (7439-97-6)	X			<0.0002						1	Mg/l				
9M. Nickel, Total (7440-02-0)	X			0.01						1	Mg/l				
10M. Selenium, Total (7782-49-2)	X			<0.01						1	Mg/l				
11M. Silver, Total (7440-28-0)	X			<0.01						1	Mg/l				

Part C – Continued

1. POLLUTANT And CAS NO. (if available)	2. MARK "X" a. Testing Required	2. a. Believed Present	2. b. Believed Absent	3. EFFLUENT a. Maximum Daily Value (1) Concentration	3. a. Maximum Daily Value (2) Mass	3. b. Maximum 30-Day Value (if available) (1) Concentration	3. b. (2) Mass	3. c. Long-Term Avg. Value (if available) (1) Concentration	3. c. (2) Mass	3. d. No. of Analyses	4. UNITS a. Concentration	4. b. Mass	5. INTAKE (optional) a. Long-Term Avg Value (1) Concentration	5. a. (2) Mass	5. b. No. of Analyses
METALS, CYANIDE AND TOTAL PHENOLS (Continued)															
12M. Thallium, Total (7440-28-0)	X			<0.01						1	Mg/l				
13M. Zinc, Total (7440-66-6)	X			<0.01						1	Mg/l				
14M. Cyanide, Total (57-12-5)	X			<0.02						1	Mg/l				
15M. Phenols, Total	X	<0.05								1	Mg/l				
DIOXIN															
2,3,7,8 Tetra-chlorodibenzo, P, Dioxin (1784-01-6)			X	DESCRIBE RESULTS: EXEMPT											
GC/MS FRACTION – VOLATILE COMPOUNDS				**EXEMPT**											
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chloro-benzene (108-90-7)			X												
8V. Chlorodibro-momethane (124-48-1)			X												

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

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

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 – ACID COMPOUNDS															
1A. 2-Chloro-phenol (95-57-8)			X												
2A. 2,4-Dichlor-Orophenol (120-83-2)			X												
3A. 2,4-Dimeth-ylphenol (105-67-9)			X												
4A. 4,6-Dinitro-o-cresol (534-52-1)			X												
5A. 2,4-Dinitro-phenol (51-28-5)			X												
6A. 2-Nitro-phenol (88-75-5)			X												
7A. 4-Nitro-phenol (100-02-7)			X												
8A. P-chloro-m-cresol (59-50-7)			X												
9A. Pentachloro-phenol (87-88-5)			X												
10A. Phenol (108-05-2)			X												
11A. 2,4,6-Tri-chlorophenol (88-06-2)			X												
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acena-phthene (83-32-9)			X												

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)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo(a)-anthracene (56-55-3)			X												
6B. Benzo(a)-pyrene (50-32-8)			X												
7B. 3,4-Benzo-fluoranthene (205-99-2)			X												
8B. Benzo(ghl) perylene (191-24-2)			X												
9B. Benzo(k)-fluoranthene (207-08-9)			X												
10B. Bis(2-chlor-oethoxy)-methane (111-91-1)			X												
11B. Bis (2-chlor-oisopropyl)-Ether			X												
12B. Bis (2-ethyl-hexyl)-phthalate (117-81-7)			X												

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)			X												
14B. Butyl-benzyl phthalate (85-68-7)			X												
15B. 2-Chloro-naphthalene (7005-72-3)			X												
16B. 4-Chloro-phenyl phenyl ether (7005-72-3)			X												
17B. Chrysene (218-01-9)			X												
18B. Dibenzo-(a,h) Anthracene (53-70-3)			X												
19B. 1,2-Dichloro-benzene (95-50-1)			X												
20B. 1,3-Dichloro-Benzene (541-73-1)			X												
21B. 1,4-Dichloro-benzene (106-46-7)			X												
22B. 3,3-Dichloro-benzidene (91-94-1)			X												
23B. Diethyl Phthalate (84-66-2)			X												

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)															
24B. Dimethyl Phthalate (131-11-3)			X												
25B. Di-N-butyl Phthalate (84-74-2)			X												
26B. 2,4-Dinitro-toluene (121-14-2)			X												
27B. 2,6-Dinitro-toluene (606-20-2)			X												
28B. Di-n-octyl Phthalate (117-84-0)			X												
29B. 1,2-diphenyl-hydrazine (as azonbenzene) (122-66-7)			X												
30B. Fluoranthene (208-44-0)			X												
31B. Fluorene (86-73-7)			X												
32B. Hexachloro-benzene (118-71-1)			X												
33B. Hexachloro-butadiene (87-68-3)			X												
34B. Hexachloro-cyclopenta-diene (77-47-4)			X												

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)															
35B. Hexachloroethane (67-72-1)			X												
36B. Indneo-(1,2,3-oc)-Pyrene (193-39-5)			X												
37B. Isophorone (78-59-1)			X												
38B. Napthalene (91-20-3)			X												
39B. Nitrobenzene (98-95-3)			X												
40B. N-Nitrosodimethylamine (62-75-9)			X												
41B. N-nitrosodi-n-propylamine (621-64-7)			X												
42B. N-nitrosodiphenylamine (86-30-6)			X												
43B. Phenanthrene (85-01-8)			X												
44B. Pyrene (129-00-0)			X												
45B. 1,2,4 Trichlorobenzene (120-82-1)			X												

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

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

NOTE: MAP INFORMATION TAKEN FROM DIGITAL VERSIONS OF THE USGS CENTRAL CITY WEST QUADRANGLE, 1997 EDITION.

(277) KPDES DISCHARGE POINT NO. 277

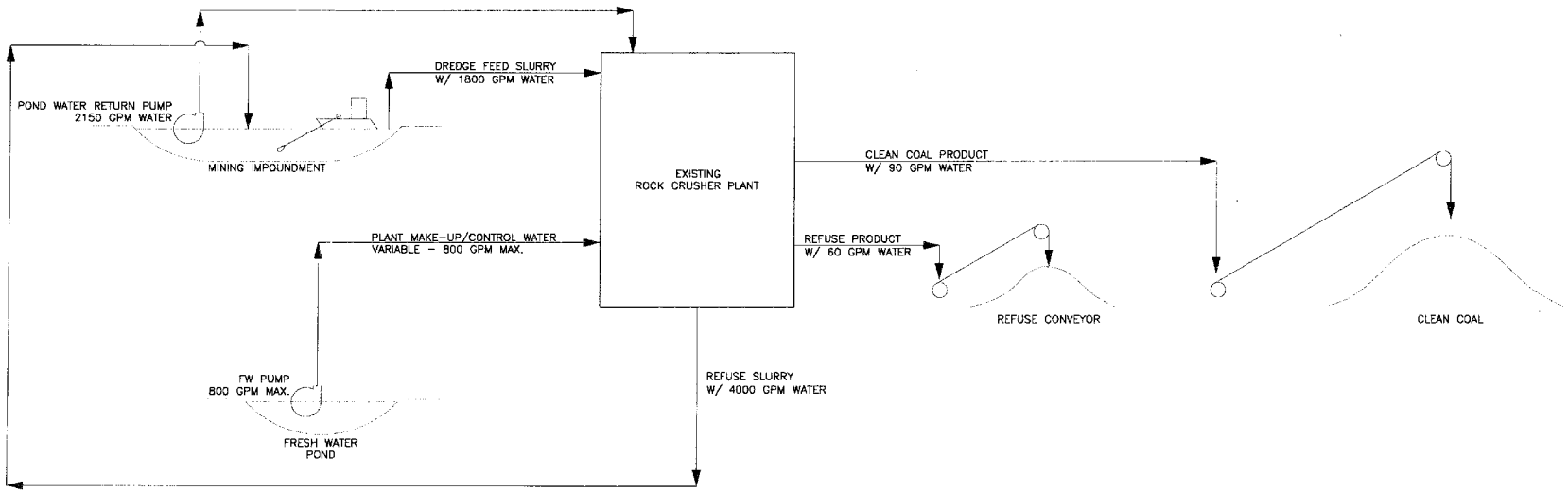
(207) KPDES DISCHARGE POINT NO. 207

(278) PROPOSE DISCHARGE POINT NO. 278

TITLE:	*PHOENIX COAL PROCESSING, CO.*
TITLE:	FACILITY LOCATION MAP
USGS QUADRANGLE:	CENTRAL CITY WEST
SCALE: 1"=2000'	KPDES: KYG044472

ENGINEERING CONSULTING SERVICES, INC.

LEXINGTON, KENTUCKY



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10653 S. RIVER FRONT PARKWAY
SUITE 300
SOUTH JORDAN, UT 84095
(801) 984-9400
FAX (801) 984-9419
www.headwaters.com

REV	REVISION DESCRIPTION	DATE	BY
A	DRAWING CREATED	11/1/07	DCB

REV	REVISION DESCRIPTION	DATE	BY

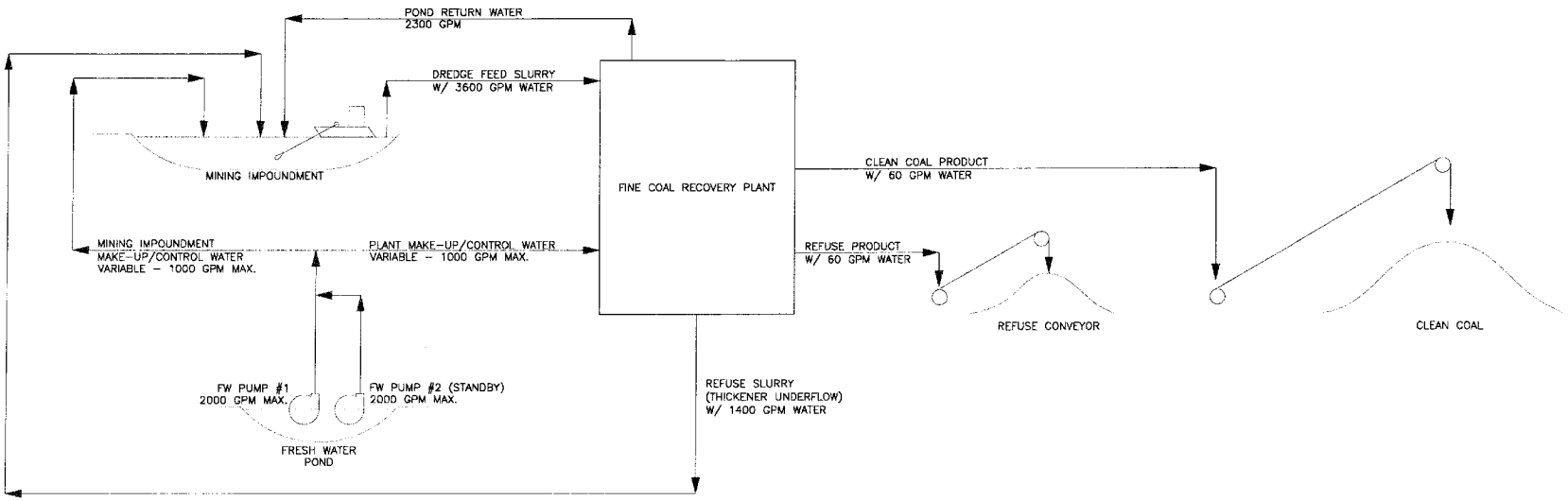
CEF KENTUCKY #1
EXISTING ROCK CRUSHER PLANT
WATER FLOW SCHEMATIC
GREENVILLE, KY

SCALE: NO SCALE	
DATE: 11-01-07	
DESIGN BY:	DB
DRAWN BY:	DCB
CHECKED BY:	
APPROVED BY:	

SHEET NO. PF102

REVISION NO. A

PROJECT NO. E07KY1



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FAX (801) 984-9410
www.headwaters.com

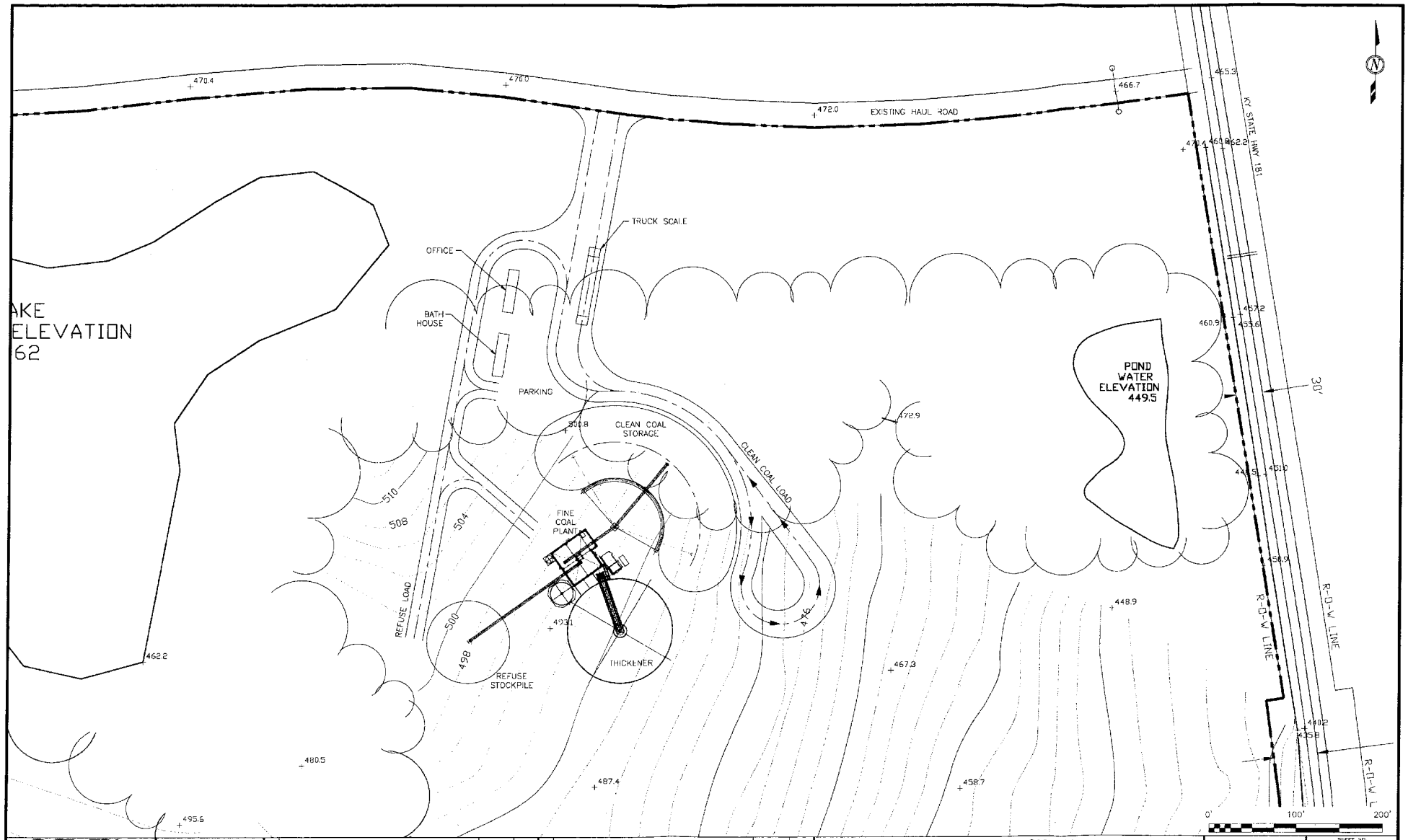
REV	REVISION DESCRIPTION	DATE	BY
A	DRAWING CREATED	11/1/07	DCB

REV	REVISION DESCRIPTION	DATE	BY

CEF KENTUCKY #1
FINE COAL RECOVERY PLANT
WATER FLOW SCHEMATIC
GREENVILLE, KY

SCALE: NO SCALE
DATE: 11-01-07
DESIGN BY: DB
DRAWN BY: DCB
CHECKED BY:
APPROVED BY:

SHEET NO. PF101
REVISION NO. A
PROJECT NO. E07KY1



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(801) 984-9400
FAX (801) 984-9419
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REV.	REVISION DESCRIPTION	DATE	BY
B	REV. ROADWAYS	10/25/07	DCB
A	DRAWING CREATED	10/23/07	DCB

REV.	REVISION DESCRIPTION	DATE	BY

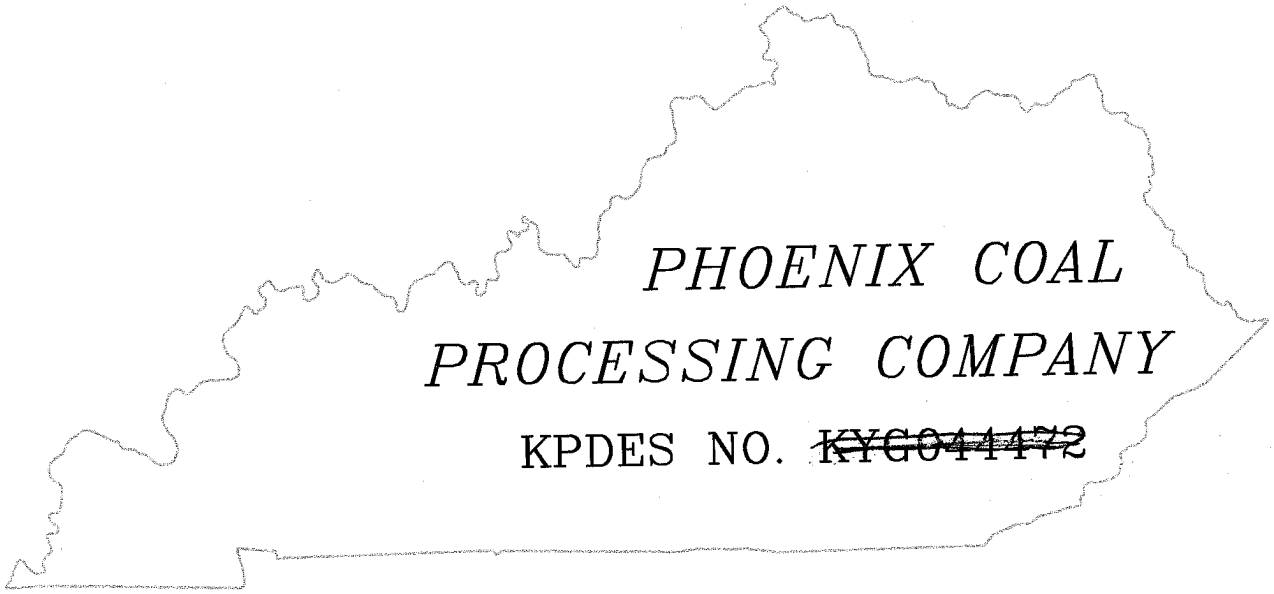
CEF KENTUCKY #1
FINE COAL RECOVERY PLANT
SITE PLAN
GREENVILLE, KY

SCALE: 1" = 100'
DATE: 10-27-07
DESIGN BY: DB
DRAWN BY: DCB
CHECKED BY:
APPROVED BY:

SHEET NO. G101
REVISION NO. B
PROJECT NO. EO/KY1

KPDES FORM 1 AND C

PREPARED
FOR



PHOENIX COAL
PROCESSING COMPANY

KPDES NO. ~~KYG044472~~

ORIGINAL

PREPARED BY

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CIVIL * ENVIRONMENTAL * MINING

340 SOUTH BROADWAY, SUITE 200 * LEXINGTON, KY 40508 * (859)233-2103 * FAX(859)259-3394

MINING SERVICES DIVISION
PIKEVILLE, KENTUCKY
(606)432-2443
(606)432-2486 FAX

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STEVEN L. BESHEAR
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET
DEPARTMENT FOR ENVIRONMENTAL PROTECTION
DIVISION OF WATER
14 REILLY ROAD
FRANKFORT, KENTUCKY 40601
www.kentucky.gov

ROBERT D. VANCE
SECRETARY

December 18, 2007

Mathew A. Haaga
Phoenix Coal Processing Company
1215 Nebo Road, Suite A
Madisonville, KY 42431

Re: KPDES Application Complete
KPDES No.: KY0107158
Phoenix Coal Processing Company
AI ID: 98885
Activity ID: APE20070001
Muhlenberg County, Kentucky

Dear Mr. Haaga,

Your revised Kentucky Pollutant Discharge Elimination System (KPDES) permit application for the above-referenced facility was received by the Division of Water on November 8, 2007. A completeness review of your permit application has been conducted. Please be aware that you may be asked to provide additional information to clarify, modify, or supplement your application material. In accordance with 401 KAR 5:075, Section 1(7) you are being provided written notification that your application has been deemed complete as of the date of this letter.

If you have any questions concerning this matter, please call me at (502) 564-8158, extension 590.

Sincerely,

Sara Beard

Sara Beard
Environmental Engineer Assistant III
KPDES Branch
Division of Water

SJB
Enclosures
c: Madisonville Regional Office
Division of Water Files