

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0126080

Owner: Continental Coal, Inc.
Address: 10801 Mastin, Suite 920, Overland Park, KS 66210

Continuing Authority: Same as above
Address: Same as above

Facility Name: Hume Mine #1
Facility Address: 2.95 miles North of Hwy A on Hwy V, Hume MO 64752

Legal Description: See pages 2 & 3
UTM Coordinates: See pages 2 & 3

Receiving Stream: See pages 2 & 3
First Classified Stream and ID: See pages 2 & 3
USGS Basin & Sub-watershed No.: See pages 2 & 3

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

All Outfalls – Surface Coal Mining - SIC #1221

Settling ponds designed to hold and treat rainfall runoff from tributary areas equal to a 10-year, 24-hour rainfall event. Ponds which are not operated in series, coal preparation plant discharges and discharges resulting from the pumping of pits or ponds shall be monitored separately as each is an individual treatment device which should meet the effluent limits without dilution from other sources. All discharges from the mine permit area are subject to this permit. This permit allows burial of ash above the seasonal high water table.

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

October 19, 2011 April 8, 2014
Effective Date Modification Date

Sara Parker Pauley, Director, Department of Natural Resources

October 18, 2016
Expiration Date

John Madros, Director, Water Protection Program

FACILITY DESCRIPTION (continued):

Outfall #003 (post mine – alkaline)

Legal Description: NW ¼, NE ¼, Sec. 27, T39N, R33W, Bates County
UTM Coordinates: X = 365101, Y = 4222721
Receiving Stream: Unnamed tributary to Gillum Creek (U)
First Classified Stream and ID: Gillum Creek (C) (01307)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #004 (post mine – alkaline)

Legal Description: SE ¼, NW ¼, Sec. 27, T39N, R33W, Bates County
UTM Coordinates: X = 364904, Y = 4222280
Receiving Stream: Unnamed tributary to Gillum Creek (U)
First Classified Stream and ID: Gillum Creek (C) (01307)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #005 (active – alkaline)

Legal Description: SW ¼, SE ¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 365296, Y = 4223195
Receiving Stream: Unnamed tributary to Gillum Creek (U)
First Classified Stream and ID: Gillum Creek (C) (01307)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #006 (post mine – alkaline)

Legal Description: SW ¼, NE ¼, Sec. 28, T39N, R33W, Bates County
UTM Coordinates: X = 363319, Y = 4222430
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #007 (active – alkaline)

Legal Description: SW ¼, NW¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 364503, Y = 4224266
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #008 (active – alkaline)

Legal Description: NW ¼, SE ¼, Sec. 22, T39N, R33W, Bates County
Latitude/Longitude: X = 365295, Y = 4223528
UTM Coordinates: Unnamed tributary to Gillum Creek (U)
First Classified Stream and ID: Gillum Creek (C) (01307)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #009 (post mine)

Legal Description: NW ¼, SW¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 364185, Y = 4223559
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #010 (active – alkaline)

Legal Description: SW ¼, NW¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 364221, Y = 4224296
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

FACILITY DESCRIPTION (continued):

Outfall #011 (active – alkaline)

Legal Description: SW ¼, NE¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 365320, Y = 4224228
Receiving Stream: Unnamed tributary to Gillum Creek (U)
First Classified Stream and ID: Gillum Creek (C) (01307)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #012 (active – anticipated alkaline)

Legal Description: NE ¼, NW¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 364985, Y = 4224626
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #013 (active – alkaline)

Legal Description: NW ¼, NE¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 365229, Y = 4224622
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #014 (anticipated – alkaline)

Legal Description: NW ¼, NE¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 365395, Y = 4224465
Receiving Stream: Unnamed tributary to Gillum Creek (U)
First Classified Stream and ID: Gillum Creek (C) (01307)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #015 (active – anticipated alkaline)

Legal Description: NW ¼, NW¼, Sec. 22, T39N, R33W, Bates County
UTM Coordinates: X = 364431, Y = 4224666
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #016 (active – alkaline)

Legal Description: NE ¼, SW¼, Sec. 28, T39N, R33W, Bates County
UTM Coordinates: X = 363233, Y = 4222741
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #017 (active – alkaline)

Legal Description: NE ¼, SW¼, Sec. 28, T39N, R33W, Bates County
UTM Coordinates: X = 362895, Y = 4222889
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #018 (active – alkaline)

Legal Description: SW ¼, SW¼, Sec. 21 T39N, R33W, Bates County
UTM Coordinates: X = 362839, Y = 4223203
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

FACILITY DESCRIPTION (continued):

Outfall #019 (anticipated – alkaline)

Legal Description: SW ¼, SE¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 363561, Y = 4223141
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #020 (active – alkaline)

Legal Description: NE ¼, SW¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 363288, Y = 4223542
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #021 (anticipated – alkaline)

Legal Description: SE ¼, SE¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 363905, Y = 4223475
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #022 (anticipated – alkaline)

Legal Description: NW ¼, SE¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 363550, Y = 4223636
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #023 (anticipated – alkaline)

Legal Description: NW ¼, SE¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 363641, Y = 4223888
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #024 (anticipated – alkaline)

Legal Description: SE ¼, NE¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 363810, Y = 4224163
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

Outfall #025 (anticipated – alkaline)

Legal Description: SE ¼, NE¼, Sec. 21, T39N, R33W, Bates County
UTM Coordinates: X = 364182, Y = 4224215
Receiving Stream: Unnamed tributary to Walnut Creek (U)
First Classified Stream and ID: Walnut Creek (C) (01306)
USGS Basin & Sub-watershed No.: (10290102-0602)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 5 of 9	
					PERMIT NUMBER MO-0126080	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
EFFLUENT PARAMETER(S) FOR OUTFALLS #003 - #025	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Active mining area outfalls during pit pumping (Notes 1, 2, &3)						
Flow	MGD	*		*	once/week	24 hr. estimate
Precipitation****	inches	**		**	**	record
Iron, Total Recoverable	mg/L	7.0		3.5	once/week	grab
Total Suspended Solids	mg/L	70		35	once/week	grab
pH-Units	SU	***		***	once/week	grab
Post mining area outfalls during pit pumping (Note 1)						
Flow	MGD	*		*	once/month	24 hr. estimate
Precipitation****	inches	**		**	**	record
Settleable Solids	mg/L/hr	0.5		0.5	once/month	grab
pH-Units	SU	***		***	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE NEXT REPORT IS DUE <u>JANUARY 28, 2013</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** All rainfall events shall be reported on quarterly monitoring events. Rainfall shall be measured at the mine office.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0.
- **** Any overflow, increase in volume of a discharge caused by precipitation rainfall event as described by the U.S. Weather Bureau in Technical Bulletin 40, limits are modified as follows:
 - (a) Discharge resulting from precipitation less than or equal to the 10-year, 24-hour precipitation event (or snowmelt of equivalent volume) shall comply with the following instead of otherwise applicable limitations - settleable solids sample collection with limitations of 0.5 mL/L/hr and pH 6.5-9.0 SU and;
 - (b) Discharge resulting from precipitation greater than the 10-year, 24-hour precipitation (or snowmelt of equivalent volume) shall comply with the following limitations instead of otherwise applicable limitations - pH between 6.5-9.0 SU.

Note 1: Definitions:

- (a) The term "active mining area" means the areas, on and beneath land, used or disturbed in activity related to the extraction, removal, or recovery of coal from its natural deposits.
- (b) The term "post mining area" means the surface area of a coal mine which has been returned to required contour and on which re-vegetation (specifically, seeding or planting) work has commenced.
- (c) The term "acid or ferruginous mine drainage" means mine drainage which, before any treatment, either has a pH of less than 6.0 or a total iron concentration equal to or greater than 10 mg/L.
- (d) The term "alkaline, mine drainage" means mine drainage which, before any treatment, has a pH equal to or greater than 6.0 and total iron concentration of less than 10 mg/L.
- (e) The term "coal refuse disposal pile" means any coal refuse deposited on the earth and intended as permanent disposal or long-term storage (greater than 180 days) of such material, but does not include coal refuse deposited within the active mining area or coal refuse never removed from the active mining area.
- (f) Within 30 days of permit issuance, the permittee shall prepare and submit for Department concurrence a list of outfalls which contain acid (or ferruginous) mine drainage, those which contain alkaline mine drainage, and those which contain coal preparation plant discharges. The list shall be updated as necessary when submitting revised maps of the mining area.

Note 2:

Quantity of discharge area(s) may vary with mining activities. The permittee shall advise the Department of Natural Resources 60 days prior to the proposed addition of other discharge areas. The new discharge points will be added to this permit, by reference to the mining company's request. The new points of discharge shall be subject to all monitoring and reporting requirements effective on the date of the company's notification of their existence to the Missouri Department of Natural Resources. Maps of the mined area, showing active mining area discharges and post mining area discharges shall be furnished by January 28 of each year.

Note 3:

- (a) Permittee shall monitor pumped mine pit water for acidity/alkalinity before it reaches a detention pond at least once a quarter in the first 12 months of new mine operations. If monitoring data indicates all four samples alkaline, no further sampling is required for the rest of the permit cycle.
- (b) If any of the sampling events indicate acidity, then the permittee shall immediately apply for a permit modification to incorporate the requirements of 40 CFR 434 Subpart C – Acid or Ferruginous Mine Drainage.
- (c) During the course of this permit cycle, if monthly monitoring from Table A, final effluent limitations, indicates a discharge with a pH less than 6.0 for any outfall of any active mining area, permittee shall begin sampling from **Note 3, part (a)** again.
- (d) The Department of Natural Resources may reopen and modify this permit at any time to incorporate requirements of 40 CFR 434 based on discharge monitoring data, inspections, or any other information that becomes available during the course of this permit cycle. This reopener clause is in addition to Special Conditions #2.

D. SPECIAL CONDITIONS

1. Amendment to Standard Conditions:

Section A.1-B. is amended to read as follows: Monitoring results shall be recorded and reported on forms provided by the Department, postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these and all other reports required herein, shall be submitted to the following address:

Department of Natural Resources
Land Reclamation Program
P.O. Box 176
Jefferson City, MO 65102

Department of Natural Resources
Kansas City Regional Office
500 NE Colbern Road
Lee's Summit, MO 64086

The monitoring reports shall be submitted to the Water Pollution Control Program and the Land Reclamation Program no later than the 28th day of the month following the completion of the reporting period.

D. SPECIAL CONDITIONS (continued)

2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

3. Samples shall be representative of monitoring period discharges and if any discharge occurs during the monitoring period at least one sample per outfall must be collected and analyzed. ("No Discharge" shall be used only to indicate no releases during the entire reporting period). Report as "no-discharge" when a discharge does not occur during the report period.
4. If fly ash is allowed to be buried, permittee shall conduct special sampling during and after acceptance of fly ash or other power plant wastes. An annual sample from each impoundment or pit potentially impacted by such waste disposal activities will be collected and analyzed for the following:

Aluminum, total recoverable	Conductivity	Silver, total recoverable
Arsenic, total recoverable	Iron, total recoverable	Sulfate, as SO ₄
Antimony, total recoverable	Lead, total recoverable	Thallium
Barium, total recoverable	Manganese, total recoverable	Total Suspended Solids
Boron, total recoverable	Mercury, total recoverable	Zinc, total recoverable
Cadmium, total recoverable	pH	
Chromium, total recoverable	Selenium, total recoverable	

This special condition does not waive the departments' Solid Waste Management Program Regulations, nor does it waive notification to the WPCP that ash is being accepted. Additionally, once per year, in January, a report must be submitted declaring the tonnage of ash that was buried. The report should contain the number of tons deposited at the mine during the report period, description of where the fly ash was placed in relation to the high seasonal groundwater table of the area and a map showing the location and depths of the ash deposition.

5. Water Quality Standards.
- (a) Discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

D. SPECIAL CONDITIONS (continued)

6. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 ug/L);
 - (2) Two hundred micrograms per liter (200 ug/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/L) for 2, 5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct of any toxic pollutants which was not reported in the permit application.

7. All outfalls shall be clearly marked and numbered in the field.

8. The permittee shall develop and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP must be kept on-site and should not be sent to DNR unless specifically requested. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in the following document:

Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

The SWPPP must include the following:

- (a) An assessment of all storm water discharges associated with this facility. This must include a list of potential contaminants and an annual estimate of amounts that will be used in the described activities.
- (b) A listing of specific Best Management Practices (BMPs) and a narrative explaining how BMPs will be implemented to control and minimize the amount of potential contaminants that may enter storm water. Minimum BMPs are listed in SPECIAL CONDITIONS #9 below.
- (c) The SWPPP must include a schedule for monthly site inspections and a brief written report. The inspections must include observation and evaluation of BMP effectiveness, deficiencies, and corrective measures that will be taken. The Department must be notified within fifteen (15) days by letter of any corrections of deficiencies. Deficiencies that consist of minor repairs or maintenance must be corrected within seven (7) days. Deficiencies that require additional time or installation of a treatment device to correct should be detailed in the written notification. Installation of a treatment device, such as an oil water separator, may require a construction permit. Inspection reports must be kept on site with the SWPPP. These must be made available to DNR personnel upon request.
- (d) A provision for designating an individual to be responsible for environmental matters.
- (e) A provision for providing training to all personnel involved in material handling and storage, and housekeeping of maintenance and cleaning areas. Proof of training shall be submitted on request of DNR.

D. SPECIAL CONDITIONS (continued)

9. Permittee shall adhere to the following minimum Best Management Practices:

- (a) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, or warehouse activities and thereby prevent the contamination of storm water from these substances.
- (b) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
- (c) Store all paint, solvents, petroleum products and petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so that these materials are not exposed to storm water or provide other prescribed BMP's such as plastic lids and/or portable spill pans to prevent the commingling of storm water with container contents. Commingled water may not be discharged under this permit. Provide spill prevention control, and/or management sufficient to prevent any spills of these pollutants from entering waters of the state. Any containment system used to implement this requirement shall be constructed of materials compatible with the substances contained and shall also prevent the contamination of groundwater.
- (d) Provide good housekeeping practices on the site to keep solid waste from entry into waters of the state.
- (e) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property.

PERMIT TRANSFER

This permit may be transferred to a new owner by submitting an "Application for Transfer of Operating Permit" signed by the seller and buyer of the facility, along with the appropriate modification fee.

PERMIT RENEWAL REQUIREMENTS

Unless this permit is terminated, the permittee shall submit an application for the renewal of this permit no later than six (6) months prior to the permit's expiration date. Failure to apply for renewal may result in termination of this permit and enforcement action to compel compliance with this condition and the Missouri Clean Water Law.

TERMINATION

In order to terminate this permit, the permittee shall notify the department by submitting Form J, included with the State Operating Permit. The permittee shall complete Form J and mail it to the department at the address noted in the cover letter of this permit. Proper closure of any storage structure is required prior to permit termination. A closure plan shall be submitted to the department and approved prior to initiating closure activities.

DUTY OF COMPLIANCE

The permittee shall comply with all conditions of this permit. Any noncompliance with this permit constitutes a violation of Chapter 644, Missouri Clean Water Law, and 10 CSR 20-6. Noncompliance may result in enforcement action, termination of this authorization, or denial of the permittee's request for renewal.

Missouri Department of Natural Resources
Statement of Basis
#MO-0126080
Hume Mine #1

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Statement of Basis shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Statement is not an enforceable part of a Missouri State Operating Permit.

Part I – Facility Information

Facility Type: Surface Coal Mining
Facility SIC Code(s): #1221

Outfall #001

The facility is a bituminous coal surface mine, covering approximately 819 acres, with surface water impoundments for active pit pumping and reclamation areas, located 2.95 miles North of Hwy A on Hwy V, Hume MO 64752.

Part II – Modification Rationale

This operating permit is hereby modified add 4 more outfalls: 022, 023, 024, and 025. These new outfalls and their locations have been listed starting on page 4 of the permit. The permittee will be required to comply with all permitting conditions including meeting effluent limitations at these new outfalls. Outfalls #022 and #023 are anticipated to be constructed around April 15, 2014. Outfalls #024 and #025 are anticipated to be constructed around August 15, 2014. The following table provides a list of the new outfalls:

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
022	NA	Primary/BMP*	Stormwater	0.9
023	NA	Primary/BMP*	Stormwater	0.5
024	NA	Primary/BMP*	Stormwater	0.5
025	NA	Primary/BMP*	Stormwater	1.5

* Best Management Practices

Comments:

The current outfall status is as noted:

- Outfall #022 - #023 anticipated alkaline, not yet constructed

All other outfalls were updated to reflect the current status reported by the permittee in the modification application. No other changes were made at this time.

The factsheet from the previous modification has been attached for the purpose of maintaining administrative record.

Part III – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- The Public Notice period for this operating permit modification was 02/31/2014 – 03/31/2014 no comments were received.

Date of Statement of Basis: 12/30/2013

Submitted by

Logan Cole, Environmental Specialist
Domestic Wastewater Unit
Operating Permits Section
Water Protection Program
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Missouri Department of Natural Resources
FACT SHEET
FOR THE PURPOSE OF MODIFICATION OF
MO-0126080
HUME MINE #1

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Major , Minor , Industrial Facility ; Variance ;
Master General Permit ; General Permit Covered Facility ; and/or permit with widespread public interest .

Part I – Facility Information

Facility Type: Surface Coal Mining
Facility SIC Code(s): 1221

Facility Description:

The facility is a bituminous coal surface mine, covering approximately 819 acres, with surface water impoundments for active pit pumping and reclamation areas, located at Route 1, P.O. Box 15A, Hume, MO 64752. The permit is being modified to add 6 more outfalls: 016, 017, 018, 019, 020, & 021.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?
, - No.

Application Date: 3/25/13
Expiration Date: 10/8/16

2013 MODIFICATION

The 2013 modification to this permit adds outfalls 016, 017, 018, 019, 020, and 021 which will be constructed from July 15-December 30, 2013.

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE	DISTANCE TO CLASSIFIED SEGMENT (MI)
003	NA	Primary/BMP*	Stormwater	2.47
004	NA	Primary/BMP*	Stormwater	2.65
005	NA	Primary/BMP*	Stormwater	1.82
006	NA	Primary/BMP*	Stormwater	0.45
007	NA	Primary/BMP*	Stormwater	0.97
008	NA	Primary/BMP*	Stormwater	1.77
009	NA	Primary/BMP*	Stormwater	0.81
010	NA	Primary/BMP*	Stormwater	1.11
011	NA	Primary/BMP*	Stormwater	1.57
012	NA	Primary/BMP*	Stormwater	1.02
013	NA	Primary/BMP*	Stormwater	1.32
014	NA	Primary/BMP*	Stormwater	1.14
015	NA	Primary/BMP*	Stormwater	1.0
016	NA	Primary/BMP*	Stormwater	0.63
017	NA	Primary/BMP*	Stormwater	0.16
018	NA	Primary/BMP*	Stormwater	0.18
019	NA	Primary/BMP*	Stormwater	1.0
020	NA	Primary/BMP*	Stormwater	0.19
021	NA	Primary/BMP*	Stormwater	0.77

* Best Management Practices

Comments:

The current outfall status is as noted:

- Outfalls #003-004 in place as alkaline post mining
- Outfalls #005-006 & 008 are in place and active alkaline
- Outfall #009 is in place and active alkaline
- Outfall #007 and Outfall #010 are active alkaline
- Outfall #011 in place and active alkaline
- Outfall #012 anticipated alkaline and was constructed in December 2012
- Outfall #013 anticipated alkaline and will be constructed around May 15, 2013
- Outfall #014 anticipated alkaline, is not planned to be used but they would like to keep the option open for used in the future if it is needed.
- Outfall #015 anticipated alkaline and was constructed in December 2012.
- Outfall #016 anticipated alkaline, not yet constructed
- Outfall #017 anticipated alkaline, not yet constructed

- Outfall #018 anticipated alkaline, not yet constructed
- Outfall #019 anticipated alkaline, not yet constructed
- Outfall #020 anticipated alkaline, not yet constructed
- Outfall #021 anticipated alkaline, not yet constructed

This facility currently does not do any burial of ash however it will remain as part of the facility description and special conditions for when the facility may choose to do so in the future. If the facility enlarges the scope of operations and as a consequence more outfalls are required, the owner must request a modification of the permit. This requirement supersedes the Guidelines for Discontinuing Sampling of Outfalls and Terminating NPDES Permits dated August 17, 1994. The previous permit contained alternate permit parameters and limits based upon excessive precipitation events under 40 CFR 434.63. Language in the previous permit that allowed alternate parameters and limits was removed from the permit as stormwater from those areas served by outfalls are directed through sediment ponds prior to discharge which provides primary/BMP treatment of those discharges.

This permit does not include effluent limitation guidelines (ELG) found in the previous permit from the Environmental Protection Agency's (EPA) code 40 CFR 434 due to non-applicability:

- Subpart B - Coal preparation Plants and Coal Preparation Plant Associated Areas
- Subpart C - Acid or Ferruginous Mine Drainage

This permit does include applicable ELG 40 CFR 434:

- Subpart D – Alkaline Mine Drainage
- Subpart E – Post-Mining Areas
- Subpart F – Miscellaneous Provisions

Changes denoted in this permit are the following:

- Outfalls to alkaline mine drainage, since the facility is not considered an acid or ferruginous mine drainage area according to the facility data, allows the permit modification to cover only the applicable data requirements for this facility.
- Sampling frequency for alkalinity and acidity for outfalls to twice in two quarters of the first year for the initial pit pumping to determine the alkalinity/acidity parameters of the facility allows for a sampling regimen specific for this facility.

Settleable solids data had an exceedence of 0.7 mL/L/hr reported for March 9, 2010. The response from the consultant was that the discharge value was incorrect and not a reflection of the actual sample. Predominantly the outfalls have not exceeded permit limits for the last permit cycle as active pit pumping discharge monitoring reports were within effluent permitted limits.

Part II – Receiving Stream Information

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

As per Missouri's Effluent Regulations [10 CSR 20-7.015], the waters of the state are divided into the below listed seven (7) categories. Each category lists effluent limitations for specific parameters, which are presented in each outfall's Effluent Limitation Table and further discussed in the Derivation & Discussion of Limits section.

- Missouri or Mississippi River [10 CSR 20-7.015(2)]:
- Lake or Reservoir [10 CSR 20-7.015(3)]:
- Lossing [10 CSR 20-7.015(4)]:
- Metropolitan No-Discharge [10 CSR 20-7.015(5)]:
- Special Stream [10 CSR 20-7.015(6)]:
- Subsurface Water [10 CSR 20-7.015(7)]:
- All Other Waters [10 CSR 20-7.015(8)]:

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(3)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	8-DIGIT HUC	EDU**
Gillum Creek	C	1307	AQL, LWW, SCR***	10290102	Central Plains/Osage/South Grand
Walnut Creek	C	1306	AQL, LWW, WBC-B****		

* - Irrigation (IRR), Livestock & Wildlife Watering (LWW), Protection of Warm Water Aquatic Life and Human Health-Fish Consumption (AQL), Cool Water Fishery(CLF), Cold Water Fishery (CDF), Whole Body Contact Recreation (WBC), Secondary Contact Recreation (SCR), Drinking Water Supply (DWS), Industrial (IND), Groundwater (GRW).

** - Ecological Drainage Unit

*** - UAA was conducted for Gillum Creek on June 21, 2005, July 23, 2006, May 18, 2007 submitted to MDNR on June 1, 2007; SCR designation was assigned.

**** - UAA conducted on June 21, 2005, May 23, 2008 and approved on April 29, 2009 retain WBC use for Walnut Creek.

RECEIVING STREAM(S) LOW-FLOW VALUES TABLE:

RECEIVING STREAM (U, C, P)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Gillum Creek (C)	0	0	0.1
Walnut Creek (C)	0	0	0.1

Mixing Zone: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(a)].

Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(4)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Part III – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

Not Applicable ;

The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- Limitations in this operating permit for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.

ANTIDegradation:

In accordance with Missouri’s Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body’s available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- Renewal no degradation proposed and no further review necessary.

COMPLIANCE AND ENFORCEMENT:

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

Not Applicable ;

The permittee/facility is not currently under Water Protection Program enforcement action.

REASONABLE POTENTIAL ANALYSIS (RPA):

Federal regulation [40 CFR Part 122.44(d)(1)(i)] requires effluent limitations for all pollutants that are or may be discharged at a level that will cause or have the reasonable potential to cause or contribute to an in-stream excursion above narrative or numeric water quality standard.

In accordance with [40 CFR Part 122.44(d)(iii)] if the permit writer determines that any give pollutant has the reasonable potential to cause, or contribute to an in-stream excursion above the WQS, the permit must contain effluent limits for that pollutant.

Not Applicable ;

A RPA was not conducted for this facility.

SCHEDULE OF COMPLIANCE (SOC):

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit.

Not Applicable ;

This permit does not contain a SOC.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

Applicable ;

A SWPPP shall be developed and implemented for each site and shall incorporate required practices identified by the Department with jurisdiction, incorporate erosion control practices specific to site conditions, and provide for maintenance and adherence to the plan.

VARIANCE:

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

Not Applicable ;

This operating permit is not drafted under premises of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

Not Applicable ;

Wasteload allocations were not calculated.

WLA MODELING:

There are two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs). If TBELs do not provide adequate protection for the receiving waters, then WQBEL must be used.

Not Applicable ;

A WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

A WET test is a quantifiable method of determining if a discharge from a facility may be causing toxicity to aquatic life by itself, in combination with or through synergistic responses when mixed with receiving stream water.

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A)7. and the Water Quality Standards 10 CSR 20-7.031(3)(D),(F),(G),(I)2.A & B are being met. Under [10 CSR 20-6.010(8)(A)4], the Department may require other terms and conditions that it deems necessary to assure compliance with the Clean Water Act and related regulations of the Missouri Clean Water Commission. In addition the following MCWL apply: §§644.051.3 requires the Department to set permit conditions that comply with the MCWL and CWA; 644.051.4 specifically references toxicity as an item we must consider in writing permits (along with water quality-based effluent limits, pretreatment, etc...); and 644.051.5 is the basic authority to require testing conditions. WET test will be required by all facilities meeting the following criteria:

Not Applicable ;

At this time, the permittee is not required to conduct WET test for this facility.

303(d) LIST & TOTAL MAXIMUM DAILY LOAD (TMDL):

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation

Not Applicable ;

This facility does not discharge to a 303(d) listed stream.

Part IV – Effluent Limits Determination

EFFLUENT LIMITATIONS TABLE:

ACTIVE MINING AREA OUTFALLS IF PIT PUMPING (NOTES 1, 2, &3)

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	MGD	1	*		*	NO	SAME
PRECIPITATION	INCHES	1	**		**	NO	SAME
IRON, TOTAL	MG/L	2/3	7.0		3.5	NO	SAME
TOTAL SUSPENDED SOLIDS	MG/L	1	70		35	NO	SAME
ACIDITY	MG/L	8	*		*	YES	CONTINUOUS MONITORING
ALKALINITY	MG/L	8	*		*	YES	CONTINUOUS MONITORING
PH	SU	1	6.5-9.0		6.5-9.0	YES	6.0-9.0
MONITORING FREQUENCY	Monitoring Reports shall be submitted monthly						

POST MINING AREA OUTFALLS IF PIT PUMPING (NOTE 1)

PARAMETER	UNIT	BASIS FOR LIMITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
FLOW	MGD	1	*		*	NO	SAME
SETTLABLE SOLIDS	ML/L/HR	1	0.5		0.5	NO	SAME
PH	SU	1	6.5-9.0		6.5-9.0	YES	6.0-9.0
MONITORING FREQUENCY	Monitoring Reports shall be submitted quarterly						

* - Monitoring requirement only.

** - All rainfall events shall be reported in quarterly monitoring reports. Rainfall shall be measured at the mine office.

Basis for Limitations Codes:

- | | |
|--|------------------------------------|
| 1. State or Federal Regulation/Law | 7. Antidegradation Policy |
| 2. Water Quality Standard (includes RPA) | 8. Water Quality Model |
| 3. Water Quality Based Effluent Limits | 9. Best Professional Judgment |
| 4. Lagoon Policy | 10. TMDL or Permit in lieu of TMDL |
| 5. Ammonia Policy | 11. WET Test Policy |
| 6. Dissolved Oxygen Policy | 12. Antidegradation Review |

OUTFALLS #003, #004, #005, #006, #007, #008, #009, #010, #011, #012, #013, #014, #015, #016, #017, #018, #019, #020, & #021 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Precipitation.** Effluent limitations have been retained from previous state operating permit as required under EPA ELG 40 CFR 434.
- **Iron, Total.** Effluent limitations have been retained from previous state operating permit per EPA ELG 40 CFR 434.42-434.45.
- **Total Suspended Solids (TSS).** Effluent limitations have been retained from previous state operating permit per EPA ELG 40 CFR 434.42-434.45, please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Receiving Stream Information.**
- **Settleable Solids.** Effluent limitations have been retained from previous state operating permit per EPA ELG 40 CFR 434.50-434.55. Monthly average limit required per 40 CFR 122.45 (f).
- **Conductivity.** Monitoring no longer required. Effluent data has been obtained from previous state operating permit DMRs which are protective of the waters of the State of Missouri.

- **Acidity/ Alkalinity.** Effluent limitation narrative has been retained from previous state operating permit, with sampling no longer required after verification of effluent status as alkaline for outfalls from sampling at least once a quarter for the first 12 months for pit pumping and following verification regimen by monthly sampling from dewatering ponds for pH.
- **Sulfate.** Monitoring no longer required. Effluent data has been obtained from previous state operating permit DMRs which are protective of the waters of the State of Missouri.
- **pH.** pH shall be maintained within the range of 6.5-9.0 standard pH units, please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Receiving Stream Information.**
- **Minimum Sampling and Reporting Frequency Requirements.** Sampling and reporting frequency requirements have been changed from previous state operating permit. The requirements in this permit are still protective of the waters in the State of Missouri.

Part V – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the department to explore a watershed based permitting effort at some point in the future.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- The Public Notice period for this operating permit was from May 17, 2013 to June 17, 2013. No responses were received.

DATE OF FACT SHEET: JUNE 18, 2013

COMPLETED BY:

ALAN MOREAU, ENVIRONMENTAL SPECIALIST
INDUSTRIAL PERMITS UNIT
(573) 522-2553
alan.moreau@dnr.mo.gov

**STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION**

**Revised
October 1, 1980**

**PART I - GENERAL CONDITIONS
SECTION A - MONITORING AND REPORTING**

1. Representative Sampling

- a. Samples and measurements taken as required herein shall be representative of the nature and volume, respectively, of the monitored discharge. All samples shall be taken at the outfall(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
- b. Monitoring results shall be recorded and reported on forms provided by the Department, postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the respective Department Regional Office, the Regional Office address is indicated in the cover letter transmitting the permit.

2. Schedule of Compliance

No later than fourteen (14) calendar days following each date identified in the "Schedule of Compliance", the permittee shall submit to the respective Department Regional Office as required therein, either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirements, or if there are no more scheduled requirements, when such noncompliance will be corrected. The Regional Office address is indicated in the cover letter transmitting the permit.

3. Definitions

Definitions as set forth in the Missouri Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 CSR 20-2.010 shall apply to terms used herein.

4. Test Procedures

Test procedures for the analysis of pollutant shall be in accordance with the Missouri Clean Water Commission Effluent Regulation 10 CSR 20-7015.

5. Recording of Results

- a. For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
 - (i) the date, exact place, and time of sampling or measurements;
 - (ii) the individual(s) who performed the sampling or measurements;
 - (iii) the date(s) analyses were performed;
 - (iv) the individual(s) who performed the analyses;
 - (v) the analytical techniques or methods used; and
 - (vi) the results of such analyses.
- b. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or both.
- c. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monitoring Report Form. Such increased frequency shall also be indicated.

7. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recording for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

SECTION B - MANAGEMENT REQUIREMENTS

1. Change in Discharge

- a. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant not authorized by this permit or any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.
- b. Any facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants shall be reported by submission of a new NPDES application at least sixty (60) days before each such change, or, if they will not violate the effluent limitations specified in the permit, by notice to the Department at least thirty (30) days before such changes.

2. Noncompliance Notification

- a. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such conditions:
 - (i) a description of the discharge and cause of noncompliance, and
 - (ii) the period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
- b. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally with 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided with five (5) days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

3. Facilities Operation

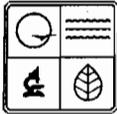
Permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions. Operators or supervisors of operations at publicly owned or publicly regulated wastewater treatment facilities shall be certified in accordance with 10 CSR 209.020(2) and any other applicable law or regulation. Operators of other wastewater treatment facilities, water contaminant source or point sources, shall, upon request by the Department, demonstrate that wastewater treatment equipment and facilities are effectively operated and maintained by competent personnel.

4. Adverse Impact

The permittee shall take all necessary steps to minimize any adverse impact to waters of the state resulting from noncompliance with any effluent limitations specified in this permit or set forth in the Missouri Clean Water Law and Regulations (hereinafter the Law and Regulations), including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

- a. Any bypass or shut down of a wastewater treatment facility and tributary sewer system or any part of such a facility and sewer system that results in a violation of permit limits or conditions is prohibited except:
 - (i) where unavoidable to prevent loss of life, personal injury, or severe property damages; and
 - (ii) where unavoidable excessive storm drainage or runoff would catastrophically damage any facilities or processes necessary for compliance with the effluent limitations and conditions of this permit;
 - (iii) where maintenance is necessary to ensure efficient operation and alternative measures have been taken to maintain effluent quality during the period of maintenance.
 - b. The permittee shall notify the Department in writing of all bypasses or shut down that result in a violation of permit limits or conditions. This section does not excuse any person from liability, unless such relief is otherwise provided by the statute.
6. **Removed Substances**
Solids, sludges, filter backwash, or any other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from entering waters of the state unless permitted by the Law, and a permanent record of the date and time, volume and methods of removal and disposal of such substances shall be maintained by the permittee.
 7. **Power Failures**
In order to maintain compliance with the effluent limitations and other provisions of this permit, the permittee shall either:
 - a. in accordance with the "Schedule of Compliance", provide an alternative power source sufficient to operate the wastewater control facilities; or,
 - b. if such alternative power source is not in existence, and no date for its implementation appears in the Compliance Schedule, halt or otherwise control production and all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.
 8. **Right of Entry**
For the purpose of inspecting, monitoring, or sampling the point source, water contaminant source, or wastewater treatment facility for compliance with the Clean Water Law and these regulations, authorized representatives of the Department, shall be allowed by the permittee, upon presentation of credentials and at reasonable times;
 - a. to enter upon permittee's premises in which a point source, water contaminant source, or wastewater treatment facility is located or in which any records are required to be kept under terms and conditions of the permit;
 - b. to have access to, or copy, any records required to be kept under terms and conditions of the permit;
 - c. to inspect any monitoring equipment or method required in the permit;
 - d. to inspect any collection, treatment, or discharge facility covered under the permit; and
 - e. to sample any wastewater at any point in the collection system or treatment process.
 9. **Permits Transferable**
 - a. Subject to Section (3) of 10 CSR 20-6.010 an operating permit may be transferred upon submission to the Department of an application to transfer signed by a new owner. Until such time as the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
 - b. The Department, within thirty (30) days of receipt of the application shall notify the new permittee of its intent to revoke and reissue or transfer the permit.
 10. **Availability of Reports**
Except for data determined to be confidential under Section 308 of the Act, and the Law and Missouri Clean Water Commission Regulation for Public Participation, Hearings and Notice to Governmental Agencies 10 CSR 20-6.020, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by statute, effluent data shall not be considered confidential. Knowingly making any false statement on any such report shall be subject to the imposition of criminal penalties as provided in Section 204.076 of the Law.
 - a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - (i) violation of any terms or conditions of this permit or the Law;
 - (ii) having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - (iii) a change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge, or
 - (iv) any reason set forth in the Law and Regulations.
 - b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
12. **Permit Modification - Less Stringent Requirements**
If any permit provisions are based on legal requirements which are lessened or removed, and should no other basis exist for such permit provisions, the permit shall be modified after notice and opportunity for a hearing.
 13. **Civil and Criminal Liability**
Except as authorized by statute and provided in permit conditions on "Bypassing" (Standard Condition B-5) and "Power Failures" (Standard Condition B-7) nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
 14. **Oil and Hazardous Substance Liability**
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act, and the Law and Regulations. Oil and hazardous materials discharges must be reported in compliance with the requirements of the Federal Clean Water Act.
 15. **State Laws**
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state statute or regulations.
 16. **Property Rights**
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of or violation of federal, state or local laws or regulations.
 17. **Duty to Reapply**
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit 180 days prior to expiration of this permit.
 18. **Toxic Pollutants**
If a toxic effluent standard, prohibition, or schedule of compliance is established, under Section 307(a) of the Federal Clean Water Act for a toxic pollutant in the discharge of permittee's facility and such standard is more stringent than the limitations in the permit, then the more stringent standard, prohibition, or schedule shall be incorporated into the permit as one of its conditions, upon notice to the permittee.
 19. **Signatory Requirement**
All reports, or information submitted to the Director shall be signed (see 40 CFR-122.6).
 20. **Rights Not Affected**
Nothing in this permit shall affect the permittee's right to appeal or seek a variance from applicable laws or regulations as allowed by law.
 21. **Severability**
The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

AP17204



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH
FORM A - APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT
UNDER MISSOURI CLEAN WATER LAW

DEC 16 2013

FOR AGENCY USE ONLY	
CHECK NUMBER	38587
DATE RECEIVED	12/16/13
FEE SUBMITTED	\$875.00

SB

Note PLEASE READ THE ACCOMPANYING INSTRUCTIONS BEFORE COMPLETING THIS FORM.

1. This application is for:
- An operating permit and antidegradation review public notice
 - A construction permit following an appropriate operating permit and antidegradation review public notice
 - A construction permit and concurrent operating permit and antidegradation review public notice
 - A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required)
 - An operating permit for a new or unpermitted facility
 - An operating permit renewal: permit # MO-_____
 - An operating permit modification: permit # MO-0126080
- Construction Permit # _____
Expiration Date _____
Reason: Add Outfalls: 022, 023, 024 & 025

1.1 Is the appropriate fee included with the application? (See instructions for appropriate fee) YES NO

2. FACILITY

NAME		TELEPHONE WITH AREA CODE	
HUME MINE		(913) 491-1717	
ADDRESS (PHYSICAL)		FAX (913) 491-1806	
2.95 Miles North of Hwy A on Hwy V		STATE	ZIP CODE
Foster		MO	64745

3. OWNER

NAME		E-MAIL ADDRESS		TELEPHONE WITH AREA CODE	
CONTINENTAL COAL, INC		philtearney@continentalcoal.com		(913) 491-1717	
ADDRESS (MAILING)		CITY		FAX (913) 491-1806	
10801 Mastin, Suite 920		Overland Park		STATE	ZIP CODE
				KS	66210

3.1 Request review of draft permit prior to public notice? YES NO

4. CONTINUING AUTHORITY

NAME		TELEPHONE WITH AREA CODE	
SAME AS SECTION 3			
ADDRESS (MAILING)		FAX	
CITY		STATE	ZIP CODE

5. OPERATOR

NAME		CERTIFICATE NUMBER		TELEPHONE WITH AREA CODE	
SAME AS SECTION 3					
ADDRESS (MAILING)		CITY		FAX	
		STATE	ZIP CODE		

6. FACILITY CONTACT

NAME		TITLE		TELEPHONE WITH AREA CODE	
PHILIP E. TEARNEY		PRESIDENT		(913) 491-1717	
				FAX (913) 491-1806	

7. ADDITIONAL FACILITY INFORMATION

7.1 Legal Description of Outfalls. (Attach additional sheets if necessary.) See Attached Form A 7.1

001 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
 UTM Coordinates Easting (X): _____ Northing (Y): _____
 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

002 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
 UTM Coordinates Easting (X): _____ Northing (Y): _____

003 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
 UTM Coordinates Easting (X): _____ Northing (Y): _____

004 _____ 1/4 _____ 1/4 Sec _____ T _____ R _____ County _____
 UTM Coordinates Easting (X): _____ Northing (Y): _____

7.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification System (NAICS) Codes.

001 - SIC 1221 and NAICS _____ 002 - SIC _____ and NAICS _____
 003 - SIC _____ and NAICS _____ 004 - SIC _____ and NAICS _____

KC
Bates

Continental Coal, Inc.
Hume Mine
N.P.D.E.S. No. MO-0126080
Updated March 2013
Form A 7.1
Page 1 of 3

DISCHARGE POINT ID	FIRST CLASSIFIED STREAM & ID	USGS BASIN & SUB-WATERSHED NO.	STATUS	SECTION TOWNSHIP RANGE	COORDINATES	UTM COORDINATES
003G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	In Reclamation (Alkaline)	NW/4 of NE/4 of Section 27 T.39N. R.33W. Bates County	N38° 08' 32.2" W094° 32' 21.9"	X 365103 Y 4222723
004G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	In Reclamation (Alkaline)	SE/4 of NW/4 of Section 27 T.39N. R.33W. Bates County	N38° 08' 16.6" W094° 32' 30.3"	X 364889 Y 4222271
005G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Active (Alkaline)	SW/4 of SE/4 of Section 22 T.39N. R.33W. Bates County	N38° 08' 48.1" W094° 32' 16.1"	X 365248 Y 4223202
006G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	In Reclamation (Alkaline)	SW/4 of NE/4 of Section 28 T.39N. R.33W. Bates County	N38° 08' 22.8" W094° 32' 32.8"	X 363368 Y 4222447
007G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Mined Through Drainage Flows to 015G	SW/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 22.0" W094° 32' 47.5"	X 364493 Y 4224286
008G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Active (Alkaline)	NW/4 of SE/4 of Section 22 T.39N. R.33W. Bates County	N38° 08' 58.5" W094° 32' 14.5"	X 365304 Y 4223523
009G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	In Reclamation	NW/4 of SW/4 of Section 22 T.39N. R.33W. Bates County	N38° 08' 58.9" W094° 32' 00.1"	X 364176 Y 4223566
010G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	SW/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 22" W094° 32' 59"	X 364221 Y 4224296
011G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Active (Alkaline)	SW/4 of NE/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 21" W094° 32' 13.1"	X 365338 Y 4224016

Continental Coal, Inc.
Hume Mine
N.P.D.E.S. No. MO-0126080
Updated December 2013
Form A 7.1
Page 2 of 3

DISCHARGE POINT ID	FIRST CLASSIFIED STREAM & ID	USGS BASIN & SUB-WATERSHED NO.	STATUS	SECTION TOWNSHIP RANGE	COORDINATES	UTM COORDINATES
012G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Anticipated Alkaline)	NE/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 34" W094° 32' 28"	X 364985 Y 4224626
013G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NW/4 of NE/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 34" W094° 32' 18"	X 365229 Y 4224622
014G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Proposed Not Constructed Yet (Anticipated Alkaline)	NW/4 of NE/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 29" W094° 32' 11"	X 365398 Y 4224465
015G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Anticipated Alkaline)	NW/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 35" W094° 32' 51"	X 364431 Y 4224666
016G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NE/4 of SW/4 of Section 28 T.39N. R.33W. Bates County	N38° 08' 33" W094° 33' 33"	X 363233 Y 4222741
017G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NE/4 of SW/4 of Section 28 T.39N. R.33W. Bates County	N38° 08' 37" W094° 33' 53"	X 362895 Y 4222889
018G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	SW/4 of SW/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 47" W094° 33' 56" **	X 362839 Y 4223203
019G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Proposed Not Constructed Yet (Anticipated Alkaline)	SW/4 of SE/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 45" W094° 33' 25"	X 363561 Y 4223141

Continental Coal, Inc.
Hume Mine
N.P.D.E.S. No. MO-0126080
Updated December 2013
Form A 7.1
Page 3 of 3

DISCHARGE POINT ID	FIRST CLASSIFIED STREAM & ID	USGS BASIN & SUB-WATERSHED NO.	STATUS	SECTION TOWNSHIP RANGE	COORDINATES	UTM COORDINATES
020G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NE/4 of SW/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 58" W094° 33' 37"	X 363288 Y 4223542
021G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Proposed Not Constructed Yet (Anticipated Alkaline)	SE/4 of SE/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 56" W094° 33' 12"	X 363905 Y 4223475
022G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	NW/4, of SE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 01" W094° 33' 26"	X 363550 Y 4223636
023G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	NW/4 of SE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 09" W094° 33' 23"	X 363641 Y 4223888
024G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	SE/4 of NE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 18" W094° 33' 16"	X 363810 Y 4224163
025G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	SE/4 of NE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 20" W094° 33' 01"	X 364182 Y 4224215

* Request to add DP-022, DP-023, DP-024, and DP-025 in December 2013.

G - Discharge Points Draining Areas Where No Bonds Have Been Released.

** Section corrected to 21 and coordinates corrected.

9.0 DOWNSTREAM LANDOWNERS

PERMIT MO-0126080 MODIFICATION

December 2013

DP-022	Laughlin Farms LLC C/O Robert Laughlin RR #1, Box 276 Hume, Mo. 64752
DP-023 & DP-024	Henry Sumpter Trust 10404 Lee Blvd Leawood, Ks. 66206
DP-025	Continental Coal Inc. 10801 Mastin, Suite 920 Overland Park, Ks. 66210

FORM A

8. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION
(Complete all forms that are applicable.)

- A. Is your facility a manufacturing, commercial, mining or silviculture waste treatment facility? YES NO
If yes, complete Form C (unless storm water only, then complete U.S. Environmental Protection Agency Form 2F per Item C below).
- B. Is your facility considered a "Primary Industry" under EPA guidelines: YES NO
If yes, complete Forms C and D.
- C. Is application for storm water discharges only? YES NO
If yes, complete EPA Form 2F.
- D. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.
- E. Is wastewater land applied? If yes, complete Form I. YES NO
- F. Is sludge, biosolids, ash or residuals generated, treated, stored or land applied? YES NO
If yes, complete Form R.

MODIFICATION Forms A, C & D Required for Items B & C

9. DOWNSTREAM LANDOWNER(S) Attach additional sheets as necessary. See Instructions.
(PLEASE SHOW LOCATION ON MAP. SEE 8.D ABOVE).

NAME

SEE ATTACHED SHEET 9.0

ADDRESS

CITY

STATE

ZIP CODE

10. I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law to the Missouri Clean Water Commission.

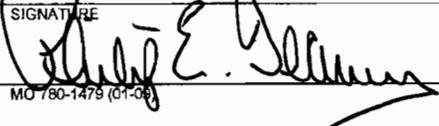
NAME AND OFFICIAL TITLE (TYPE OR PRINT)

PAUL E. TEARNEY PRESIDENT

TELEPHONE WITH AREA CODE

(913) 491-1717

SIGNATURE



DATE SIGNED

12/5/13

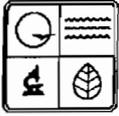
MO 760-1475 (01-06)

BEFORE MAILING, PLEASE ENSURE ALL SECTIONS ARE COMPLETED AND ADDITIONAL FORMS, IF APPLICABLE, ARE INCLUDED.

Submittal of an incomplete application may result in the application being returned.

HAVE YOU INCLUDED:

- Appropriate Fees?
- Map at 1" = 2000' scale? 800'
- Signature?
- Form C, if applicable?
- Form D, if applicable?
- Form 2F, if applicable?
- Form I (Irrigation), if applicable?
- Form R (Sludge), if applicable?



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
FORM C – APPLICATION FOR DISCHARGE PERMIT –
MANUFACTURING, COMMERCIAL, MINING,
SILVICULTURE OPERATIONS, PROCESS & STORM WATER

FOR AGENCY USE ONLY	
CHECK NO.	
DATE RECEIVED	FEE SUBMITTED

TE: DO NOT ATTEMPT TO COMPLETE THIS FORM BEFORE READING THE ACCOMPANYING INSTRUCTIONS

1.00 NAME OF FACILITY
 HUME MINE

1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING PERMIT NUMBER
 MO 0126080

1.20 THIS IS A NEW FACILITY AND WAS CONSTRUCTED UNDER MISSOURI CONSTRUCTION PERMIT NUMBER (COMPLETE ONLY IF THIS FACILITY DOES NOT HAVE AN OPERATING PERMIT).

2.00 LIST THE STANDARD INDUSTRIAL CLASSIFICATION (SIC) CODES APPLICABLE TO YOUR FACILITY (FOUR DIGIT CODE)

A. FIRST 1221 B. SECOND _____

C. THIRD _____ D. FOURTH _____

2.10 FOR EACH OUTFALL GIVE THE LEGAL DESCRIPTION.

OUTFALL NUMBER (LIST) _____ 1/4 _____ 1/4 SEC _____ T _____ R _____ SEE ATTACHED FORM C 2.10 _____ COUNTY

2.20 FOR EACH OUTFALL LIST THE NAME OF THE RECEIVING WATER

OUTFALL NUMBER (LIST)	RECEIVING WATER
SEE ATTACHED FORM C 2.10	

2.30 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS

SURFACE MINING OF BITUMENOUS COAL. WE ARE REQUESTING TO ADD 4 ADDITIONAL OUTFALLS IN ORDER TO CONTINUE MINING OPERATIONS AT THE HUME MINE.

DEC 16 2013

Continental Coal, Inc.
Hume Mine
N.P.D.E.S. No. MO-0126080
Updated March 2013
Form C 2.10 & 2.20
Page 1 of 3

DISCHARGE POINT ID	FIRST CLASSIFIED STREAM & ID	USGS BASIN & SUB-WATERSHED NO.	STATUS	SECTION TOWNSHIP RANGE	COORDINATES	UTM COORDINATES
003G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	In Reclamation (Alkaline)	NW/4 of NE/4 of Section 27 T.39N. R.33W. Bates County	N38° 08' 32.2" W094° 32' 21.9"	X 365103 Y 4222723
004G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	In Reclamation (Alkaline)	SE/4 of NW/4 of Section 27 T.39N. R.33W. Bates County	N38° 08' 16.6" W094° 32' 30.3"	X 364889 Y 4222271
005G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Active (Alkaline)	SW/4 of SE/4 of Section 22 T.39N. R.33W. Bates County	N38° 08' 48.1" W094° 32' 16.1"	X 365248 Y 4223202
006G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	In Reclamation (Alkaline)	SW/4 of NE/4 of Section 28 T.39N. R.33W. Bates County	N38° 08' 22.8" W094° 32' 32.8"	X 363368 Y 4222447
007G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Mined Through Drainage Flows to 015G	SW/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 22.0" W094° 32' 47.5"	X 364493 Y 4224286
008G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Active (Alkaline)	NW/4 of SE/4 of Section 22 T.39N. R.33W. Bates County	N38° 08' 58.5" W094° 32' 14.5"	X 365304 Y 4223523
009G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	In Reclamation	NW/4 of SW/4 of Section 22 T.39N. R.33W. Bates County	N38° 08' 58.9" W094° 32' 00.1"	X 364176 Y 4223566
010G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	SW/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 22" W094° 32' 59"	X 364221 Y 4224296
011G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Active (Alkaline)	SW/4 of NE/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 21" W094° 32' 13.1"	X 365338 Y 4224016

Continental Coal, Inc.
Hume Mine
N.P.D.E.S. No. MO-0126080
Updated December 2013
Form C 2.10 & 2.20

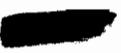
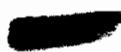
Page 2 of 3

DISCHARGE POINT ID	FIRST CLASSIFIED STREAM & ID	USGS BASIN & SUB-WATERSHED NO.	STATUS	SECTION TOWNSHIP RANGE	COORDINATES	UTM COORDINATES
012G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Anticipated Alkaline)	NE/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 34" W094° 32' 28"	X 364985 Y 4224626
013G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NW/4 of NE/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 34" W094° 32' 18"	X 365229 Y 4224622
014G	Unnamed Tributary to Gillum Creek (c)(01307)	10290101 0602	Proposed Not Constructed Yet (Anticipated Alkaline)	NW/4 of NE/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 29" W094° 32' 11"	X 365398 Y 4224465
015G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Anticipated Alkaline)	NW/4 of NW/4 of Section 22 T.39N. R.33W. Bates County	N38° 09' 35" W094° 32' 51"	X 364431 Y 4224666
016G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NE/4 of SW/4 of Section 28 T.39N. R.33W. Bates County	N38° 08' 33" W094° 33' 33"	X 363233 Y 4222741
017G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NE/4 of SW/4 of Section 28 T.39N. R.33W. Bates County	N38° 08' 37" W094° 33' 53"	X 362895 Y 4222889
018G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	SW/4 of SW/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 47" W094° 33' 56" **	X 362839 Y 4223203
019G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Proposed Not Constructed Yet (Anticipated Alkaline)	SW/4 of SE/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 45" W094° 33' 25"	X 363561 Y 4223141

Continental Coal, Inc.
Hume Mine
N.P.D.E.S. No. MO-0126080

December 2013
Form C 2.10 & 2.20

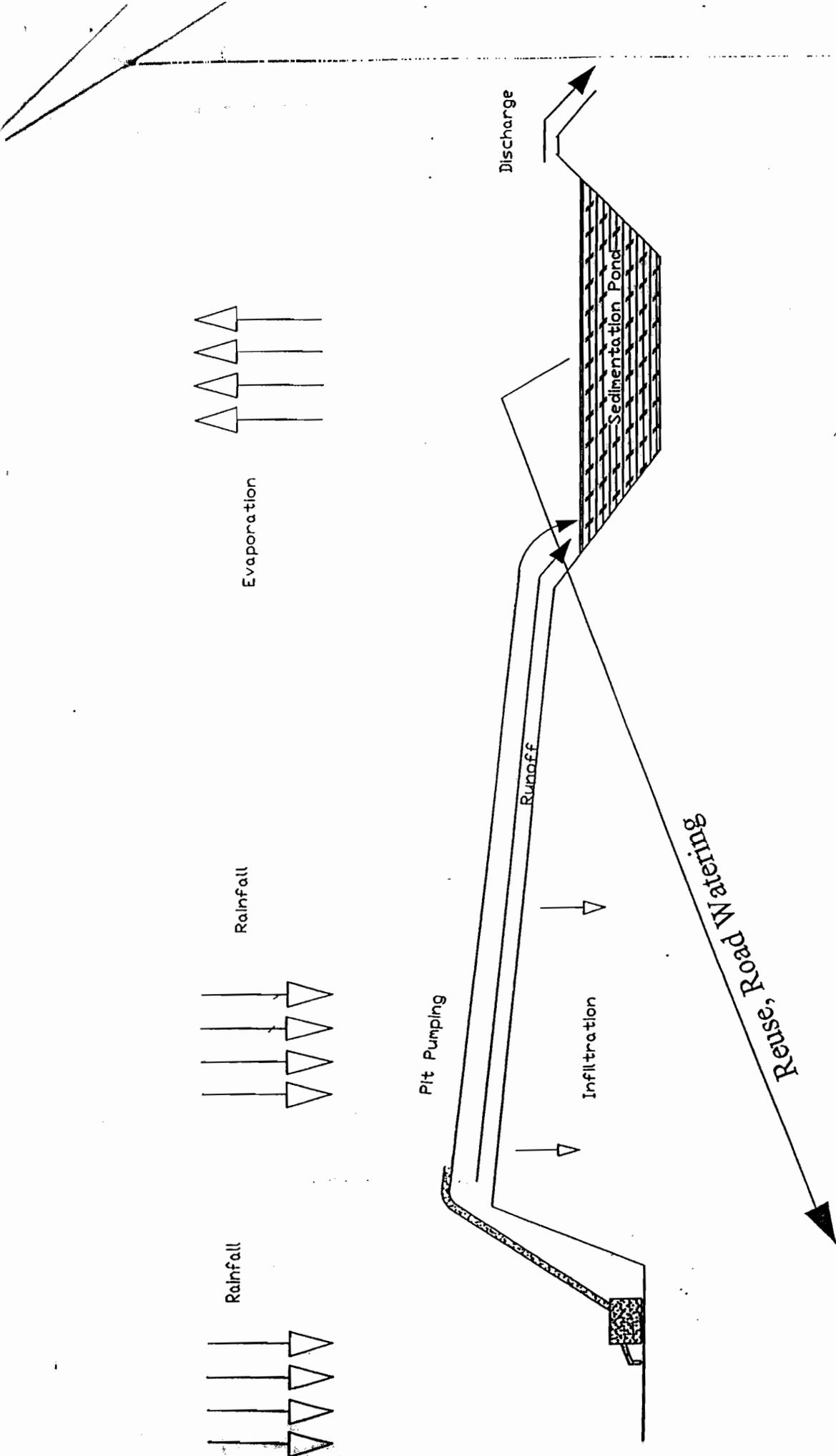
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DISCHARGE POINT ID	FIRST CLASSIFIED STREAM & ID	USGS BASIN & SUB-WATERSHED NO.	STATUS	SECTION TOWNSHIP RANGE	COORDINATES	UTM COORDINATES
020G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Active (Alkaline)	NE/4 of SW/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 58" W094° 33' 37"	X 363288 Y 4223542
021G	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	Proposed Not Constructed Yet (Anticipated Alkaline)	SE/4 of SE/4 of Section 21** T.39N. R.33W. Bates County	N38° 08' 56" W094° 33' 12"	X 363905 Y 4223475
	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	NW/4 of SE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 01" W094° 33' 36"	X 363550 Y 4223636
	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	NW/4 of SE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 09" W094° 33' 23"	X 363641 Y 4223888
	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	SE/4 of NE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 18" W094° 33' 16"	X 363810 Y 4224163
	Unnamed Tributary to Walnut Creek (c)(01306)	10290101 0602	*Proposed Not Constructed Yet (Anticipated Alkaline)	SE/4 of NE/4 of Section 21 T.39N. R.33W. Bates County	N38° 09' 20" W094° 33' 01"	X 364182 Y 4224215

* Requested to add DP-022, DP-023, DP-024, and DP-025 in December 2013.

G - Discharge Points Draining Areas Where No Bonds Have Been Released.

** Section corrected to 21 and coordinates corrected.



Hume Mine
 Water Flow Diagram
 Form C 2.40 A

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, public sewers and outfalls. 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.
3. The treatment received by the wastewater.

Continue on additional sheets if necessary.

1. OUTFALL NO. (LIST)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	A. OPERATION (LIST)	B. AVERAGE FLOW (INCLUDE UNITS) (MAXIMUM FLOW)	A. DESCRIPTION	B. LIST CODES FROM TABLE A
003	Storm Water	Rainfall Dependent	Sedimentation	1U
004	Storm Water	Rainfall Dependent	Sedimentation	1U
005	Storm Water	Rainfall Dependent	Sedimentation	1U
006	Storm Water	Rainfall Dependent	Sedimentation	1U
007	Storm Water	Rainfall Dependent	Sedimentation	1U
008	Storm Water	Rainfall Dependent	Sedimentation	1U
009	Storm Water	Rainfall Dependent	Sedimentation	1U
010	Storm Water	Rainfall Dependent	Sedimentation	1U
011	Storm Water	Rainfall Dependent	Sedimentation	1U
012	Storm Water	Rainfall Dependent	Sedimentation	1U
013	Storm Water	Rainfall Dependent	Sedimentation	1U
014	Storm Water	Rainfall Dependent	Sedimentation	1U
015	Storm Water	Rainfall Dependent	Sedimentation	1U
016	Storm Water	Rainfall Dependent	Sedimentation	1U
017	Storm Water	Rainfall Dependent	Sedimentation	1U
018	Storm Water	Rainfall Dependent	Sedimentation	1U
019	Storm Water	Rainfall Dependent	Sedimentation	1U
020	Storm Water	Rainfall Dependent	Sedimentation	1U
021	Storm Water	Rainfall Dependent	Sedimentation	1U
	Storm Water	Rainfall Dependent	Sedimentation	1U
	Storm Water	Rainfall Dependent	Sedimentation	1U
	Storm Water	Rainfall Dependent	Sedimentation	1U
	Storm Water	Rainfall Dependent	Sedimentation	1U

2.40 CONTINUED

C. EXCEPT FOR STORM RUNOFF, LEAKS OR SPILLS, ARE ANY OF THE DISCHARGES DESCRIBED IN ITEMS A OR B INTERMITTENT OR SEASONAL?

YES (COMPLETE THE FOLLOWING TABLE) NO (GO TO SECTION 2.50)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				C. DURATION (in days)
		A. DAYS PER WEEK (specify average)	B. MONTHS PER YEAR (specify average)	A. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	

2.50 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 B.) NO (GO TO SECTION 2.60)

B. ARE THE LIMITATIONS IN THE APPLICABLE EFFLUENT GUIDELINES EXPRESSED IN TERMS OF PRODUCTION (OF OTHER MEASURE OF OPERATION)?

YES (COMPLETE c.) NO (GO TO SECTION 2.60)

C. IF YOU ANSWERED "YES" TO B. LIST THE QUANTITY THAT REPRESENTS AN 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.

1. MAXIMUM QUANTITY			2. AFFECTED OUTFALLS (list outfall numbers)
A. QUANTITY PER DAY	B. UNITS OF MEASURE	C. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

2.60 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 TREATMENT EQUIPMENT OR PRACTICES OR ANY OTHER ENVIRONMENTAL PROGRAMS THAT 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 3.00)

1. IDENTIFICATION OF CONDITION AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
				A. REQUIRED	B. PROJECTED

B. OPTIONAL: YOU MAY ATTACH ADDITIONAL SHEETS DESCRIBING ANY ADDITIONAL WATER POLLUTION CONTROL PROGRAMS (OR OTHER ENVIRONMENTAL PROJECTS THAT MAY AFFECT YOUR DISCHARGES) YOU NOW HAVE UNDER WAY OR ARE YOU PLANNING. INDICATE WHETHER EACH PROGRAM IS NOW UNDER WAY OR PLANNED, AND INDICATE YOUR ACTUAL OR PLANNED SCHEDULES FOR CONSTRUCTION.

MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
 (Use the same format)
 SEE INSTRUCTIONS

FORM C
 TABLE 1 FOR 3.00 ITEM A AND B

OUTFALL NO. 022

INTAKE AND EFFLUENT CHARACTERISTICS

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)		B. NO. OF ANALYSES
	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE			
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
A. Biochemical Demand (BOD)	Not Detect	2.0					1	mg/l					
B. Chemical Oxygen Demand (COD)	20.3						1	mg/l					
C. Total organic Carbon (TOC)	7.4						1	mg/l					
D. Total Suspended Solids (TSS)	Not Detect	5.0					1	mg/l					
E. Ammonia (as N)	Not Detect	0.0					1	mg/l					
F. Flow	VALUE	0.006	VALUE				1	mg/d			VALUE		
G. Temperature (winter)	VALUE	8°	VALUE				1	°C			VALUE		
H. Temperature (summer)	VALUE		VALUE					°C			VALUE		
I. pH	MINIMUM	7.5	MAXIMUM				1	STANDARD UNITS					

PART B - Mark 'X' in column 2-a for each pollutant you know or have reason to believe is present. Mark 'X' in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results for 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 NUMBER (if available)	2. MARK 'X'		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		B. NO. OF ANALYSES	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION		(2) MASS
A. Bromide (24959-87-9)	X													
B. Chlorine Total Residual	X													
C. Color	X													
D. Fecal Coliform	X													
E. Fluoride (18984-48-8)	X													
F. Nitrate-Nitrate (as N)	X													

12/2013 DP-022 is an existing small strip pit that will be modified in order to provide a settling basin for stormwater runoff.

OUTFALL 022

1. POLLUTANT AND CAS NUMBER (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 AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
G. Nitrogen Total Organic (as N)		X												
H. Oil and Grease		X												
I. Phosphorus (as P) Total (7723-14-0)		X												
J. Sulfate (as SO ₄) (14808-79-8)	X		13.1						1	mg/l				
K. Sulfide (as S)		X												
L. Sulfite (as SO ₃) (14265-45-3)		X												
M. Surfactants		X												
N. Aluminum Total (7429-90-5)		X												
O. Barium Total (7440-39-3)		X												
P. Boron Total (7440-42-8)		X												
Q. Cobalt Total (7440-48-4)		X												
R. Iron Total (7439-89-6)	X		0.246						1	mg/l				1
S. Magnesium Total (7439-95-4)		X												
T. Molybdenum Total (7439-98-7)		X												
U. Manganese Total (7439-96-5)	X		0.0918						1	mg/l				1
V. Tin Total (7440-31-5)		X												
W. Titanium Total (7440-32-6)		X												

12/2013 DP-022 is an existing small steep pit that will be modified in order to provide a settling pond for stormwater runoff.

OUTFALL 022

1. POLLUTANT AND GAS NUMBER (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 AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
METALS, AND TOTAL PHENOLS													
1M. Antimony, Total (7440-38-9)		X											
2M. Beryllium, Total (7440-41-7)		X											
3M. Magnesium, Total (7439-95-4)		X											
4M. Molybdenum, Total (7439-98-7)		X											
5M. Tin, Total (7440-31-5)		X											
6M. Titanium, Total (7440-32-6)		X											
7M. Mercury, Total (7439-97-6)		X											
8M. Selenium, Total (7782-49-2)		X											
9M. Thallium, Total (7440-28-0)		X											
10M. Phenols, Total		X											
RADIOACTIVITY													
(1) Alpha Total		X											
(2) Beta Total		X											
(3) Radium Total		X											
(4) Radium 226 Total		X											

1/2/2013 DP-022 is an existing small strip pit that will be modified in order to provide a settling pond for stormwater runoff.

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
 (Use the same format)
 SEE INSTRUCTIONS

FORM C
 TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. **023**

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	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE		C. LONG TERM AVRG. VALUE		D. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		B. NO. OF ANALYSES
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		A. CONCENTRATION	B. MASS	(1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)	None detected	2.0					1	mg/l				
B. Chemical Oxygen Demand (COD)	18.9						1	mg/l				
C. Total organic Carbon (TOC)	6.5						1	mg/l				
D. Total Suspended Solids (TSS)	None detected	5.0					1	mg/l				
E. Ammonia (as N)	None detected	0.10					1	mg/l				
F. Flow	VALUE	MINIMUM	MAXIMUM	MAXIMUM	VALUE		1			VALUE		
G. Temperature (winter)	VALUE	6			VALUE		1			VALUE		
H. Temperature (summer)	VALUE	6			VALUE		1			VALUE		
I. pH	MINIMUM	7.66			VALUE		1			VALUE		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results for 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 NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	B. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	C. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS	B. NO. OF ANALYSES
A. Bromide (24956-87-9)		X											
B. Chlorine Total Residual		X											
C. Color		X											
D. Fecal Coliform		X											
E. Fluoride (16984-48-8)		X											
F. Nitrate-Nitrate (as N)		X											

12/2013 DP-023 is an existing small strip pit that will be modified in order to provide a settling basin for stormwater runoff.

OUTFALL 023

1. POLLUTANT AND CAS NUMBER (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 AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
G. Nitrogen Total Organic (as N)		X												
H. Oil and Grease		X												
I. Phosphorus (as P) Total (7723-14-0)		X												
J. Sulfate (as SO ₄) (14808-78-6)	X		31.1						1	mg/l				
K. Sulfide (as S)		X												
L. Sulfite (as SO ₃) (14285-45-3)		X												
M. Surfactants		X												
N. Aluminum Total (7429-90-5)		X												
O. Barium Total (7440-39-3)		X												
P. Boron Total (7440-42-8)		X												
Q. Cobalt Total (7440-48-4)		X												
R. Iron Total (7439-89-6)	X		3.030						1	mg/l				
S. Magnesium Total (7439-95-4)		X												
T. Molybdenum Total (7439-98-7)		X												
U. Manganese Total (7439-96-5)	X		0.537						1	mg/l				
V. Tin Total (7440-31-5)		X												
W. Titanium Total (7440-32-6)		X												

12/2013 DP-023 is an existing small steep pit that will be modified in order to provide a settling pond for stormwater runoff.

OUTFALL 023

1. POLLUTANT AND CAS NUMBER (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)		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
METALS, AND TOTAL PHENOLS											
1M. Antimony, Total (7440-36-9)		X									
2M. Beryllium, Total (7440-41-7)		X									
3M. Magnesium, Total (7439-95-4)		X									
4M. Molybdenum, Total (7439-98-7)		X									
5M. Tin, Total (7440-31-5)		X									
6M. Titanium, Total (7440-32-6)		X									
7M. Mercury, Total (7439-97-6)		X									
8M. Selenium, Total (7782-49-2)		X									
9M. Thallium, Total (7440-28-0)		X									
10M. Phenols, Total		X									
RADIOACTIVITY											
(1) Alpha Total		X									
(2) Beta Total		X									
(3) Radium Total		X									
(4) Radium 226 Total		X									

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12/2013 DP-023 is an existing small strip pit that will be modified in order to provide a settling pond for stormwater runoff.

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
 (Use the same format)
 SEE INSTRUCTIONS

FORM C
 TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS												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.												025
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 AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. 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	VALUE		VALUE		VALUE				VALUE			
G. Temperature (winter)	VALUE		VALUE		VALUE			°C	VALUE			
H. Temperature (summer)	VALUE		VALUE		VALUE			°C	VALUE			
I. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	STANDARD UNITS							
PART B - Mark 'X' in column 2-a for each pollutant you know or have reason to believe is present. Mark 'X' in column 2-b for each pollutant you believe to be absent. If you mark column 2-e for any pollutant, you must provide the results for at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.												
1. POLLUTANT AND GAS NUMBER (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 AVRG. VALUE (if available)	D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. 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. Chlorine Total Residual		X										
C. Color		X										
D. Fecal Coliform		X										
E. Fluoride (16984-48-8)		X										
F. Nitrate-Nitrate (as N)		X										

12/2013 DP-025 is a newly proposed impoundment that has not been constructed as of December 2013.

OUTFALL 025

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)		B. NO. OF ANALYSES	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
G. Nitrogen Total Organic (as N)		X												
H. Oil and Grease		X												
I. Phosphorus (as P) Total (7723-14-0)		X												
J. Sulfate (as SO ₄) (14808-79-8)	(1)													
K. Sulfide (as S)		X												
L. Sulfite (as SO ₃) (14285-45-3)		X												
M. Surfactants		X												
N. Aluminum Total (7429-90-5)		X												
O. Barium Total (7440-39-3)		X												
P. Boron Total (7440-42-8)		X												
Q. Cobalt Total (7440-48-4)		X												
R. Iron Total (7439-89-6)	(1)													
S. Magnesium Total (7439-95-4)		X												
T. Molybdenum Total (7439-98-7)		X												
U. Manganese Total (7439-96-5)	(1)													
V. Tin Total (7440-31-5)		X												
W. Titanium Total (7440-32-6)		X												

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(1) The Impoundment has not been constructed yet. It is believed these parameters will be present.

12/2013 DP-025 is a newly proposed impoundment that has not been constructed as of December 2013.

OUTFALL 025

1. POLLUTANT AND CAS NUMBER (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 AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Beryllium, Total (7440-41-7)		X												
3M. Magnesium, Total (7439-95-4)		X												
4M. Molybdenum, Total (7439-98-7)		X												
5M. Tin, Total (7440-31-5)		X												
6M. Titanium, Total (7440-32-6)		X												
7M. Mercury, Total (7439-97-6)		X												
8M. Selenium, Total (7782-49-2)		X												
9M. Thallium, Total (7440-28-0)		X												
10M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

12/2013 DP-025 is a newly proposed impoundment that has not been constructed as of December 2013

PLEASE PRINT OR TYPE. You may report some or all of this information on separate sheet instead of completing these pages.
 (Use the same format)
 SEE INSTRUCTIONS

FORM C
 TABLE 1 FOR 3.00 ITEM A AND B

INTAKE AND EFFLUENT CHARACTERISTICS

OUTFALL NO. 024

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	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	3. UNITS (specify if blank)		4. INTAKE (optional)		B. NO. OF ANALYSES
	CONCENTRATION (1)	(2) MASS	CONCENTRATION (1)	(2) MASS	CONCENTRATION (1)	(2) MASS		A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS	
A. Biochemical Oxygen Demand (BOD)	Not Detect	0.20					1	mg/l				
B. Chemical Oxygen Demand (COD)	13.3						1	mg/l				
C. Total organic Carbon (TOC)	5.0						1	mg/l				
D. Total Suspended Solids (TSS)	6.0						1	mg/l				
E. Ammonia (as N)	Not Detect	0.10					1	mg/l				
F. Flow	VALUE	MAXIMUM	VALUE	MINIMUM	MAXIMUM					VALUE		
G. Temperature (winter)	VALUE		VALUE						°C	VALUE		
H. Temperature (summer)	VALUE		VALUE						°C	VALUE		
I. pH	MINIMUM	7.85	MAXIMUM				1		STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results for 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 NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		B. NO. OF ANALYSES	
	A. BELIEVED PRESENT	B. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	B. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	C. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION		(2) MASS
A. Bromide (24959-87-9)	X													
B. Chlorine Total Residual	X													
C. Color	X													
D. Fecal Coliform	X													
E. Fluoride (16984-48-8)	X													
F. Nitrate-Nitrate (as N)	X													

12/2013 DP-024 is an existing small strip pit that will be modified in order to provide a settling basin for stormwater runoff.

OUTFALL 024

1. POLLUTANT AND CAS NUMBER (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		C. LONG TERM AVRG. VALUE		D. NO. OF ANALYSES	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
G. Nitrogen Total Organic (as N)		X												
H. Oil and Grease		X												
I. Phosphorus (as P) Total (7723-14-0)		X												
J. Sulfate (as SO ₄) (14808-78-6)	X		31.1						1	mg/l				
K. Sulfide (as S)		X												
L. Sulfite (as SO ₃) (14285-45-3)		X												
M. Surfactants		X												
N. Aluminum Total (7429-90-5)		X												
O. Barium Total (7440-39-3)		X												
P. Boron Total (7440-42-8)		X												
Q. Cobalt Total (7440-48-4)		X												
R. Iron Total (7439-89-6)	X		0.142						1	mg/l				
S. Magnesium Total (7439-95-4)		X												
T. Molybdenum Total (7439-98-7)		X												
U. Manganese Total (7439-96-6)	X		0.058						1	mg/l				
V. Tin Total (7440-31-5)		X												
W. Titanium Total (7440-32-6)		X												

12/2013 DP-024 is an existing small steep pit that will be modified in order to provide a settling pond for stormwater runoff.

OUTFALL 024

1. POLLUTANT AND CAS NUMBER (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		C. LONG TERM AVRG. VALUE		D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, AND TOTAL PHENOLS														
1M. Antimony, Total (7440-36-9)		X												
2M. Beryllium, Total (7440-41-7)		X												
3M. Magnesium, Total (7439-95-4)		X												
4M. Molybdenum, Total (7439-98-7)		X												
5M. Tin, Total (7440-31-5)		X												
6M. Titanium, Total (7440-32-6)		X												
7M. Mercury, Total (7439-97-6)		X												
8M. Selenium, Total (7782-49-2)		X												
9M. Thallium, Total (7440-28-0)		X												
10M. Phenols, Total		X												
RADIOACTIVITY														
(1) Alpha Total		X												
(2) Beta Total		X												
(3) Radium Total		X												
(4) Radium 226 Total		X												

12/2013 DP-024 is an existing small strip pit that will be modified in order to provide a settling pond for stormwater runoff.

FORM C

3.10 BIOLOGICAL TOXICITY TESTING DATA

DO YOU HAVE ANY KNOWLEDGE OR REASON TO BELIEVE THAT ANY BIOLOGICAL TEST FOR ACUTE OR CHRONIC TOXICITY HAS BEEN MADE ON ANY OF YOUR DISCHARGES OR ON RECEIVING WATER IN RELATION TO YOUR DISCHARGE WITHIN THE LAST THREE YEARS?

YES (IDENTIFY THE TEST(S) AND DESCRIBE THEIR PURPOSES BELOW.) NO (GO TO 3.20)

3.20 CONTRACT ANALYSIS INFORMATION

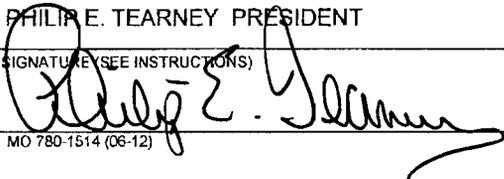
WERE ANY OF THE ANALYSES REPORTED PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

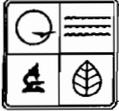
YES (LIST THE NAME, ADDRESS AND TELEPHONE NUMBER OF AND POLLUTANTS ANALYZED BY EACH SUCH LABORATORY OR FIRM BELOW.) NO (GO TO 3.30)

A. NAME	B. ADDRESS	C. TELEPHONE (area code and number)	D. POLLUTANTS ANALYZED (list)
PACE ANALYTICAL	9608 LORIENT BLVD. LENEXA, KS 66219	(913) 599-5665	ALL

3.30 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) PHILIP E. TEARNEY PRESIDENT	TELEPHONE NUMBER WITH AREA CODE (913) 491-1717
SIGNATURE (SEE INSTRUCTIONS) 	DATE SIGNED 12/5/13



MISSOURI DEPARTMENT OF NATURAL RESOURCES
 WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
FORM D – APPLICATION FOR DISCHARGE PERMIT
PRIMARY INDUSTRIES

FOR AGENCY USE ONLY	
CHECK NO.	
DATE RECEIVED	FEE SUBMITTED

NOTE: DO NOT ATTEMPT TO COMPLETE THIS FORM BEFORE READING THE ACCOMPANYING INSTRUCTIONS

1.00 NAME OF FACILITY

HUME MINE CONTINENTAL COAL, INC

1.10 THIS FACILITY IS NOW IN OPERATION UNDER MISSOURI OPERATING PERMIT NUMBER

MO - 0126080

This form is to be filled out in addition to forms A and C "Application for Discharge Permit" for the Industries listed below.

INDUSTRY CATEGORY

- | | |
|-----------------------------------|---|
| Adhesives and sealants | Ore mining |
| Aluminum forming | Organic chemicals manufacturing |
| Auto and other laundries | Paint and ink formulation |
| Battery manufacturing | Pesticides |
| <u>Coal mining</u> | Petroleum refining |
| Coil coating | Pharmaceutical preparations |
| Copper forming | Photographic equipment and supplies |
| Electric and electronic compounds | Plastic and synthetic materials manufacturing |
| Electroplating | Plastic processing |
| Explosives manufacturing | Porcelain enameling |
| Foundries | Printing and publishing |
| Gum and wood chemicals | Pulp and paperboard mills |
| Inorganic chemicals manufacturing | Rubber processing |
| Iron and steel manufacturing | Soap and detergent manufacturing |
| Leather tanning and finishing | Steam electric power plants |
| Landfill | Textile mills |
| Mechanical products manufacturing | Timber products processing |
| Nonferrous metals manufacturing | |

APPLICATION FOR DISCHARGE PERMIT
FORM D - PRIMARY INDUSTRIES

TABLE II

NPDES # (IF ASSIGNED) **MO-0126080** OUTFALL NUMBER **022**

1.30 If you are a primary industry and this outfall contains process wastewater, refer to Table A in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-A for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. Mark "X" in column 2-B for each pollutant you know or have reason to believe is present. Mark "X" in column 2-C for each pollutant you believe to be absent. If you mark either columns 2-A or 2-B for any pollutant, you must provide the results 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 NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)	D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS
METALS, AND TOTAL PHENOLS												
1M. Antimony, Total (7440-36-9)			X									
2M. Beryllium, Total (7440-41-7)			X									
3M. Magnesium Total (7439-95-4)		X(1)										
4M. Molybdenum Total (7439-98-7)			X									
5M. Tin Total (7440-31-5)			X									
6M. Titanium Total (7440-32-6)			X									
7M. Mercury, Total (7439-97-6)			X									
8M. Selenium, Total (7782-49-2)			X									
9M. Thallium, Total (7440-28-0)			X									
10M. Phenols, Total			X									
DIOXIN												
2,3,7,8 - Tetra - chlorodibenzo-P. Dioxin (1764-01-6)			X									
DESCRIBE RESULTS												

(1) Believed present based on other nearby impoundment testing, but not tested.

022

CONTINUED FROM PAGE 3

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT			4. UNITS		5. INTAKE (optional)	
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - VOLATILE COMPOUNDS									
1V. Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
2V. Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
3V. Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
4V. Bis (Chloromethyl) Ether (542-88-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
5V. Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
6V. Carbon Tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
7V. Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
8V. Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
9V. Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
10V. 2-Chloroethylvinyl Ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
11V. Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
12V. Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
13V. Dichlorodifluoromethane (75-71-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
14V. 1,1 - Dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
15V. 1,2 - Dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
16V. 1,1 - Dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
17V. 1,2 - Dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
18V. 1,2 - Dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
19V. Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
20V. Methyl Bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
21V. Methyl Chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						

CONTINUE ON PAGE 4

PAGE 3

MO 780-1516 (02-12)

CONTINUED FROM THE FRONT

2. MARK "X"

NPDES # (IF ASSIGNED)
MO-0126080

OUTFALL NUMBER
022

3. EFFLUENT

1. POLLUTANT AND CAS NUMBER (if available)	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)		B. NO OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		A. CONCEN- TRATION	B. MASS	A. LONG TERM AVRG. VALUE	B. NO OF ANALYSES		
														(1) CONCENTRATION		(2) MASS
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)																
22V. Methylene Chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
23V. 1,1,2,2 - Tetra- chloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
24V. Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
25V. Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
26V. 1,2 - Trans Dichloroethylene (156-80-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
27V. 1,1,1 - Tri - chloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
28V. 1,1,2 - Tri- chloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
29V. Trichloro - ethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
30V. Trichloro - fluoromethane (75-69-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
31V. Vinyl Chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
GC/MS FRACTION - ACID COMPOUNDS																
1A. 2 - Chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
2A. 2,4 - Dichloro - phenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
3A. 2,4 - Dimethyl - phenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
4A. 4,6 - Dinitro - O- Cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
5A. 2,4 - Dinitro - phenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
6A. 2-Nitrophenol (88-79-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
7A. 4-Nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
8A. P - Chloro - M Cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
9A. Pentachloro - phenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
10A. Phenol (108-952)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													
11A. 2,4,6 - Trichloro- phenol (88-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>													

CONTINUED FROM THE FRONT

022

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. 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												
1B. Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
2B. Acenaphthylene (208-98-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
3B. Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
4B. Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
5B. Benzo (a) Anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
6B. Benzo (a) Pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
7B. 3,4 - Benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
8B. Benzo (ghi) Perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
9B. Benzo (k) Fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
11B. Bis (2-Chloroethyl) Ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
12B. Bis (2-Chloroisopropyl) Ether (39638-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
15B. Butyl Benzyl Phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
16B. 2-Chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
18B. Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
19B. Dibenz (a,h) Anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
20B. 1,2-Dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
21B. 1,3-Dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

CONTINUED FROM THE PAGE 7

NPDES # (IF ASSIGNED)

M0-0126080

OUTFALL NUMBER

022

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				D. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)		B. NO OF ANALYSES
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE	B. MAXIMUM 30 DAY VALUE (if available)	C. LONG TERM AVRG. VALUE (if available)		A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE	(1) CONCENTRATION	
GC/MS FRACTION - PESTICIDES (continued)												
17P. Heptachlor Epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	X									
18P. PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	X									
19P. PBC-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	X									
20P. PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	X									
21P. PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	X									
22P. PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	X									
23P. PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	X									
24P. PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	X									
25P. Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	X									
J. RADIOACTIVITY												
(1) Alpha Total	<input type="checkbox"/>	<input type="checkbox"/>	X									
(2) Beta Total	<input type="checkbox"/>	<input type="checkbox"/>	X									
(3) Radium Total	<input type="checkbox"/>	<input type="checkbox"/>	X									
(4) Radium 226 Total	<input type="checkbox"/>	<input type="checkbox"/>	X									

APPLICATION FOR DISCHARGE PERMIT
FORM D - PRIMARY INDUSTRIES

TABLE II	
NPDES # (IF ASSIGNED)	OUTFALL NUMBER
MO-0126080	023

1.30 If you are a primary industry and this outfall contains process wastewater, refer to Table A in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-A for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. Mark "X" in column 2-B for each pollutant you know or have reason to believe is present. Mark "X" in column 2-C for each pollutant you believe to be absent. If you mark either columns 2-A or 2-B for any pollutant, you must provide the results 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 NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT (if available)	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
METALS, AND TOTAL PHENOLS												
1M. Antimony, Total (7440-36-9)			X									
2M. Beryllium, Total (7440-41-7)			X									
3M. Magnesium Total (7439-95-4)		X(1)										
4M. Molybdenum Total (7439-98-7)			X									
5M. Tin Total (7440-31-5)			X									
6M. Titanium Total (7440-32-5)			X									
7M. Mercury, Total (7439-97-6)			X									
8M. Selenium, Total (7782-49-2)			X									
9M. Thallium, Total (7440-28-0)			X									
10M. Phenols, Total			X									
DIOXIN												
2,3,7,8 - Tetra - chlorodibenzo-P-Dioxin (1764-01-6)			X									
DESCRIBE RESULTS												

(1) Believed present based on other nearby impoundment testing, but not tested.

023

CONTINUED FROM PAGE 3

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE		B. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS											
1V. Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
2V. Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
3V. Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
4V. Bis (Chloromethyl) Ether (542-88-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
5V. Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
6V. Carbon Tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
7V. Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
8V. Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
9V. Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
10V. 2-Chloroethylvinyl Ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
11V. Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
12V. Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
13V. Dichlorodifluoromethane (75-71-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
14V. 1,1 - Dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
15V. 1,2 - Dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
16V. 1,1 - Dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
17V. 1,2 - Dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
18V. 1,2 - Dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
19V. Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
20V. Methyl Bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
21V. Methyl Chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								

NPDES # (IF ASSIGNED) **MO-0126080** OUTFALL NUMBER **023**

3. EFFLUENT

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				D. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		A. LONG TERM AVRG. VALUE	B. MASS	A. LONG TERM AVRG. VALUE		B. NO OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION				(2) MASS	(1) CONCENTRATION		(2) MASS
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)													
22V. Methylene Chloride (75-08-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
23V. 1,1,2,2 - Tetra-chloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
24V. Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
25V. Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
26V. 1,2 - Trans Dichloroethylene (156-80-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
27V. 1,1,1 - Tri-chloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
28V. 1,1,2 - Tri-chloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
29V. Trichloro-ethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
30V. Trichloro-fluoromethane (75-69-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
31V. Vinyl Chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										

GC/MS FRACTION - ACID COMPOUNDS												
1A. 2 - Chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
2A. 2,4 - Dichloro-phenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
3A. 2,4 - Dimethyl-phenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
4A. 4,6 - Dinitro - O-Cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
5A. 2,4 - Dinitro-phenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
6A. 2-Nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
7A. 4-Nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
8A. P - Chloro - M Cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
9A. Pentachloro-phenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10A. Phenol (108-952)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
11A. 2,4,6 - Trichloro-phenol (88-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

023

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GGC/MS FRACTION - BASE/NEUTRAL COMPOUNDS										
B. Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Benzo (a) anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Benzo (a) pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. 3,4-benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Benzo (ghi) perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
B. Benzo (k) fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
OB. Bis (2-Chloroethoxy) methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
1B. Bis (2-Chloroethyl) ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
2B. Bis (2-Chloroisopropyl) ether (39636-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
3B. Bis (2-Ethylhexyl) phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
4B. 4-Bromophenyl phenyl Ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
5B. Butyl Benzyl phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
6B. 2-Chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
7B. 4-Chlorophenyl phenyl Ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
8B. Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
9B. Dibenzo (a,h) anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
10B. 1,2-Dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
11B. 1,3-Dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GCMS FRACTION - PESTICIDES (continued)												
7P. Heptachlor Epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
8P. PCB-1242 53469-21-9	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
9P. PCB-1254 11097-69-1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10P. PCB-1221 11104-28-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
11P. PCB-1232 11141-16-5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
12P. PCB-1248 12672-29-6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
13P. PCB-1260 11096-82-5	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
14P. PCB-1016 12674-11-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
15P. Toxaphene 8001-35-2	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
J. RADIOACTIVITY												
(1) Alpha Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
(2) Beta Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
(3) Radium Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
(4) Radium 226 Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

APPLICATION FOR DISCHARGE PERMIT
FORM D - PRIMARY INDUSTRIES

TABLE II	
NPDES # (IF ASSIGNED)	OUTFALL NUMBER
MO-0126080	024

1.30 If you are a primary industry and this outfall contains process wastewater, refer to Table A in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-A for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. Mark "X" in column 2-B for each pollutant you know or have reason to believe is present. Mark "X" in column 2-C for each pollutant you believe to be absent. If you mark either columns 2-A or 2-B for any pollutant, you must provide the results 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 NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			(1) CONCENTRATION	(2) MASS
METALS, AND TOTAL PHENOLS													
1M. Antimony, Total (7440-36-9)			X										
2M. Beryllium, Total (7440-41-7)			X										
3M. Magnesium Total (7439-95-4)		X(1)											
4M. Molybdenum Total (7439-98-7)			X										
5M. Tin Total (7440-31-5)			X										
6M. Titanium Total (7440-32-6)			X										
7M. Mercury, Total (7439-97-6)			X										
8M. Selenium, Total (7782-49-2)			X										
9M. Thallium, Total (7440-28-0)			X										
10M. Phenols, Total			X										
DIOXIN													
2,3,7,8 - Tetra - chlorodibenzo-P-Dioxin (1764-01-6)			X										
DESCRIBE RESULTS													

(1) Believed present based on other nearby impoundment testing, but not tested.

024

CONTINUED FROM PAGE 3

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GC/MS FRACTION - VOLATILE COMPOUNDS												
1V. Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
2V. Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
3V. Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
4V. Bis (Chloromethyl) Ether (542-88-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
5V. Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
6V. Carbon Tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
7V. Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
8V. Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
9V. Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10V. 2-Chloroethylvinyl Ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
11V. Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
12V. Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
13V. Dichlorodifluoromethane (75-71-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
14V. 1,1 - Dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
15V. 1,2 - Dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
16V. 1,1 - Dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
17V. 1,2 - Dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
18V. 1,2 - Dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
19V. Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
20V. Methyl Bromide (74-83-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
21V. Methyl Chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

CONTINUED FROM THE FRONT

NPDES # (IF ASSIGNED)
MO-0126080

OUTFALL NUMBER
024

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				D. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)	A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE	B. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION							(2) MASS
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)													
2V. Methylene Chloride (75-09-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
3V. 1,1,2,2 - Tetra-chloroethane (79-34-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
4V. Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
5V. Toluene (108-88-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
6V. 1,2 - Trans Dichloroethylene (156-80-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
7V. 1,1,1 - Tri-chloroethane (71-55-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
8V. 1,1,2 - Tri-chloroethane (79-00-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
9V. Trichloro-ethylene (79-01-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
10V. Trichloro- fluoromethane (75-69-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
11V. Vinyl Chloride (75-01-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										

GC/MS FRACTION - ACID COMPOUNDS

A. 2 - Chlorophenol (95-57-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. 2,4 - Dichloro-phenol (120-83-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. 2,4 - Dimethyl-phenol (105-67-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. 4,6 - Dinitro - O-cresol (534-52-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. 2,4 - Dinitro-phenol (51-28-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. 2-Nitrophenol (88-75-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. 4-Nitrophenol (100-02-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. P - Chloro - M-cresol (59-50-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
A. Pentachloro-phenol (87-86-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10A. Phenol (108-952)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
1A. 2,4,6 - Trichloro-phenol (88-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

024

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. 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												
1B. Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
2B. Acenaphthylene (208-98-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
3B. Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
4B. Benzidine (92-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
5B. Benzo (a) Anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
6B. Benzo (a) Pyrene (50-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
7B. 3,4 - Benzofluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
8B. Benzo (ghi) Perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
9B. Benzo (k) Fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
11B. Bis (2-Chloroethyl) Ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
12B. Bis (2-Chloroisopropyl) Ether (3638-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
15B. Butyl Benzyl Phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
16B. 2-Chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
18B. Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
19B. Dibenzo (a,h) Anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
20B. 1,2-Dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
21B. 1,3-Dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

1. POLLUTANT AND CAS NUMBER (if available)	A. TESTING REQUIRED	2. MARK "X"		C. BELIEVED ABSENT	3. EFFLUENT		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)	
		B. BELIEVED PRESENT			A. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	B. MAXIMUM 30 DAY VALUE (1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	(2) MASS
GC/MS FRACTION - PESTICIDES (continued)													
17P. Heptachlor Epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
18P. PCB-1242 (63469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
19P. PBC-1254 (11097-69-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
20P. PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
21P. PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
22P. PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
23P. PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
24P. PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
25P. Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
J. RADIOACTIVITY													
(1) Alpha Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
(2) Beta Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
(3) Radium Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
(4) Radium 226 Total	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									

APPLICATION FOR DISCHARGE PERMIT
FORM D - PRIMARY INDUSTRIES

TABLE II

NPDES # (IF ASSIGNED)

OUTFALL NUMBER

MO-0126080

025

1.30 If you are a primary industry and this outfall contains process wastewater, refer to Table A in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-A for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. Mark "X" in column 2-B for each pollutant you know or have reason to believe is present. Mark "X" in column 2-C for each pollutant you believe to be absent. If you mark either columns 2-A or 2-B for any pollutant, you must provide the results 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 NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		C. LONG TERM AVRG. VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE (1) CONCENTRATION	B. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
METALS, AND TOTAL PHENOLS												
1M. Antimony, Total (7440-36-8)			X									
2M. Beryllium, Total (7440-41-7)			X									
3M. Magnesium Total (7439-95-4)		X(1)										
4M. Molybdenum Total (7439-98-7)			X									
5M. Tin Total (7440-31-5)			X									
6M. Titanium Total (7440-32-6)			X									
7M. Mercury, Total (7439-97-8)			X									
8M. Selenium, Total (7782-49-2)			X									
9M. Thallium, Total (7440-28-0)			X									
10M. Phenols, Total			X									
DIOXIN												
2,3,7,8 - Tetra - chlorodibenzo-P- Dioxin (1764-01-6)			X									
DESCRIBE RESULTS												

(1) Believed present based on other nearby impoundment testing, but not tested.

025

CONTINUED FROM PAGE 3

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)	
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS			
GC/MS FRACTION - VOLATILE COMPOUNDS										
1V. Acrolein (107-02-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
2V. Acrylonitrile (107-13-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
3V. Benzene (71-43-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
4V. Bis (Chloromethyl) Ether (542-88-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
5V. Bromoform (75-25-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
6V. Carbon Tetrachloride (56-23-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
7V. Chlorobenzene (108-90-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
8V. Chlorodibromomethane (124-48-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
9V. Chloroethane (75-00-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
10V. 2-Chloroethylvinyl Ether (110-75-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
11V. Chloroform (67-66-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
12V. Dichlorobromomethane (75-27-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
13V. Dichlorodifluoromethane (75-71-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
14V. 1,1 - Dichloroethane (75-34-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
15V. 1,2 - Dichloroethane (107-06-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
16V. 1,1 - Dichloroethylene (75-35-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
17V. 1,2 - Dichloropropane (78-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
18V. 1,2 - Dichloropropylene (542-75-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
19V. Ethylbenzene (100-41-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
20V. Methyl Bromide (74-83-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							
21V. Methyl Chloride (74-87-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>							

CONTINUED FROM THE FRONT

NPDES # (IF ASSIGNED)
MO-0126080

OUTFALL NUMBER
025

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS	5. INTAKE (optional)		B. NO OF ANALYSES	
	A. TESTING REQUIRED	B. BELIEVED PRESENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE (if available)			D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE		B. NO OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
GC/MS FRACTION - VOLATILE COMPOUNDS (continued)											
22V. Methylene Chloride (75-09-2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
24V. Tetrachloroethylene (127-18-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
25V. Toluene (108-88-3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
26V. 1,2-Trans Dichloroethylene (156-60-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
27V. 1,1,1-Tri-chloroethane (71-55-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
28V. 1,1,2-Tri-chloroethane (79-00-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
29V. Trichloro-ethylene (79-01-6)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
30V. Trichloro-fluoromethane (75-69-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
31V. Vinyl Chloride (75-01-4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
GC/MS FRACTION - ACID COMPOUNDS											
1A. 2-Chlorophenol (95-57-8)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
2A. 2,4-Dichloro-phenol (120-83-2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
3A. 2,4-Dimethyl-phenol (105-67-9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
4A. 4,6-Dinitro-O-Cresol (534-52-1)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
5A. 2,4-Dinitro-phenol (51-28-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
6A. 2-Nitrophenol (88-75-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
7A. 4-Nitrophenol (100-02-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
8A. P-Chloro-M Cresol (59-50-7)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
9A. Pentachloro-phenol (87-86-5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
10A. Phenol (108-952)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									
11A. 2,4,6-Trichloro-phenol (88-06-2)	<input type="checkbox"/>	<input checked="" type="checkbox"/>									

025

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)				
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE		B. MAXIMUM 30 DAY VALUE		C. LONG TERM AVRG. VALUE		D. NO. OF ANALYSES	A. LONG TERM AVRG. VALUE	B. NO OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS													
1B. Acenaphthene (83-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
2B. Acenaphthylene (208-96-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
3B. Anthracene (120-12-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
4B. Benzidine (82-87-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
5B. Benzo (a) Anthracene (56-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
6B. Benzo (a) Pyrene (60-32-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
7B. 3,4 - Benzo(a)fluoranthene (205-99-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
8B. Benzo (ghi) Perylene (191-24-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
9B. Benzo (k) Fluoranthene (207-08-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
10B. Bis (2-Chloroethoxy) Methane (111-91-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
11B. Bis (2-Chloroethyl) Ether (111-44-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
12B. Bis (2-Chloroisopropyl) Ether (39638-32-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
14B. 4-Bromophenyl Phenyl Ether (101-55-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
15B. Butyl Benzyl Phthalate (85-68-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
16B. 2-Chloronaphthalene (91-58-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
18B. Chrysene (218-01-9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
19B. Dibenz(a,h) Anthracene (53-70-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
20B. 1,2 - Dichlorobenzene (95-50-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										
21B. 1,3 - Dichlorobenzene (541-73-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>										

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"		3. EFFLUENT				D. NO. OF ANALYSES	4. UNITS		5. INTAKE (optional)	
	A. TESTING REQUIRED	B. BELIEVED PRESENT	C. BELIEVED ABSENT	A. MAXIMUM DAILY VALUE (if available)	B. MAXIMUM 30 DAY VALUE (if available)	C. LONG TERM AVRG. VALUE (if available)		A. CONCENTRATION	B. MASS	A. LONG TERM AVRG. VALUE	(1) CONCENTRATION
GCIMS FRACTION - PESTICIDES (continued)											
17P. Heptachlor Epoxide (1024-57-3)	<input type="checkbox"/>	<input type="checkbox"/>	X								
18P. PCB-1242 (53469-21-9)	<input type="checkbox"/>	<input type="checkbox"/>	X								
19P. PBC-1254 (11097-59-1)	<input type="checkbox"/>	<input type="checkbox"/>	X								
20P. PCB-1221 (11104-28-2)	<input type="checkbox"/>	<input type="checkbox"/>	X								
21P. PCB-1232 (11141-16-5)	<input type="checkbox"/>	<input type="checkbox"/>	X								
22P. PCB-1248 (12672-29-6)	<input type="checkbox"/>	<input type="checkbox"/>	X								
23P. PCB-1260 (11096-82-5)	<input type="checkbox"/>	<input type="checkbox"/>	X								
24P. PCB-1016 (12674-11-2)	<input type="checkbox"/>	<input type="checkbox"/>	X								
25P. Toxaphene (8001-35-2)	<input type="checkbox"/>	<input type="checkbox"/>	X								
J. RADIOACTIVITY											
(1) Alpha Total	<input type="checkbox"/>	<input type="checkbox"/>	X								
(2) Beta Total	<input type="checkbox"/>	<input type="checkbox"/>	X								
(3) Radium Total	<input type="checkbox"/>	<input type="checkbox"/>	X								
(4) Radium 226 Total	<input type="checkbox"/>	<input type="checkbox"/>	X								

FORM D

2.00 POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. IS ANY POLLUTANT LISTED IN ITEM 1.30 A SUBSTANCE OR A COMPONENT OF A SUBSTANCE WHICH YOU DO OR EXPECT THAT YOU WILL OVER THE NEXT FIVE YEARS USE OR MANUFACTURE AS AN INTERMEDIATE OR FINAL PRODUCT OR BYPRODUCT?

YES (LIST ALL SUCH POLLUTANTS BELOW) NO (GO TO B)

B. ARE YOUR OPERATIONS SUCH THAT YOUR RAW MATERIALS, PROCESSES OR PRODUCTS CAN REASONABLE BE EXPECTED TO VARY SO THAT YOUR DISCHARGES OF POLLUTANTS MAY DURING THE NEXT FIVE YEARS EXCEED TWO TIMES THE MAXIMUM VALUES REPORTED IN ITEM 1.30?

YES (COMPLETE C BELOW) NO (GO TO SECTION 3.00)

C. IF YOU ANSWERED "YES" TO ITEM B, EXPLAIN BELOW AND DESCRIBE IN DETAIL THE SOURCES AND EXPECTED LEVELS OF SUCH POLLUTANTS THAT YOU ANTICIPATE WILL BE DISCHARGED FROM EACH OUTFALL OVER THE NEXT FIVE YEARS, TO THE BEST OF YOUR ABILITY AT THIS TIME. CONTINUE ON ADDITIONAL SHEETS IF YOU NEED MORE SPACE.

3.00 CONTRACT ANALYSIS INFORMATION

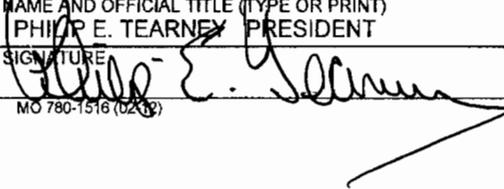
WERE ANY OF THE ANALYSES REPORTED IN 1.30 PERFORMED BY A CONTRACT LABORATORY OR CONSULTING FIRM?

YES (LIST THE NAME, ADDRESS, AND TELEPHONE NUMBER OF, AND ANALYZED BY, EACH SUCH LABORATORY OR FIRM BELOW)
 NO (GO TO SECTION 4.00)

A. NAME	B. ADDRESS	C. TELEPHONE NUMBER WITH AREA CODE	D. POLLUTANTS ANALYZED (list)

4.00 CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME AND OFFICIAL TITLE (TYPE OR PRINT) PHILIP E. TEARNEY PRESIDENT	TELEPHONE NUMBER WITH AREA CODE (913) 491-1717
SIGNATURE 	DATE SIGNED 12/5/13



ENVIRONMENTAL SERVICES

GEOLOGICAL ENGINEERING SOLUTIONS FOR TODAY'S ENVIRONMENTAL CONCERNS
P.O. BOX 1507 • PITTSBURG, KS 66762 • (620) 231-5660 • FAX (620) 231-5661
triad@triad-es.com

December 13, 2013

DEC 16 2013

SENT VIA CERTIFIED MAIL
7013 0600 0000 4049 7362

Ms. Mandy Sappington
Water Pollution Control Branch
DNR- Water Protection Program
P.O. Box 176
Jefferson City, MO. 65102-0176

RE: Continental Coal, Inc. – Hume Mine - NPDES Permit No-0126080; Amend Permit-
Modification to Add Four (4) Additional Outfall (022, 023, 024, and 025)

Dear Ms. Sappington,

On behalf of Continental Coal, Inc., and as per our telephone conversation of November 26, 2013, you are being advised that Continental Coal will add 4 additional outfalls, as noted above, to the list of new active outfalls, at their Hume Mine in Bates County. The outfalls will not involve any new receiving streams. In that these additional outfalls are for a new mining area that is contiguous to the current mining area, your prompt action is respectfully requested in order to avoid an interruption of coal shipments.

As required in the permit, we are notifying the Department of Natural Resources at least 60 days prior to the addition of other discharge areas. Continental Coal understands that these additional discharge points are subject to all monitoring and reporting requirements contained in the permit effective as of the date of this letter.

Included are two copies of the amended Forms A, C & D and an updated NPDES Location Map dated December 2013 showing the location of each new point. It is anticipated that DP-022 and DP-023 will be constructed around April 15, 2014. DP-024 will be constructed around June 15, 2014 and DP-025 will be constructed around August 15, 2014.

A check in the amount of \$875.00 for the permit modification fee is attached.

In addition to the above, the March 2013 modification to Permit No. 0126080 had Section 22 listed and should have been Section 21 for outfalls 018, 019, 020 and 021. Form A 7.1 and Form C 2.1 and 2.20 have been corrected. I apologize for this oversight.

Please call with any questions regarding the above action. Your prompt attention would be greatly appreciated. Thank you for your cooperation in this matter.

Respectfully,


Jim Bentley
Reclamation Specialist

cc: Philip Tearney, Continental Coal Inc.
Hume Mine