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 RSMo, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0112721

Owner: City of Hannibal

Address: 320 Broadway, Hannibal, MO 63401

Continuing Authority: Same as above Address: Same as above >

Facility Name: Hannibal Sanitary Landfill

Facility Address: 2/3 mile south of Big Creek Lane and Kiowa Drive Intersection, Hannibal, MO 63401

Legal Description: See following page(s)
UTM Coordinates: See following page(s)

Receiving Stream: See following page(s)
First Classified Stream and ID: See following page(s)
USGS Basin & Sub-watershed No.: See following page(s)

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

FACILITY DESCRIPTION

Closed and capped landfill; SIC # 4953; NAICS # 562212, Leachate is pumped and hauled to a permitted wastewater treatment facility. This facility does not require a certified wastewater operator per 10 CSR 20-9.030 as this facility is privately owned. Domestic wastewater is not managed at this facility.

This permit authorizes only stormwater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas.

August 1, 2022 October 1, 2023

Effective Date Modification Date

July 31, 2027

Expiration Date

John Hoke Director, Water Protection Program

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FACILITY DESCRIPTION (CONTINUED)

OUTFALL #001 – Stormwater only

Stormwater from the southwest portion of the closed and capped landfill; settling basin Legal Description: SE½, SE½, Sec.12, T56N, R6W, Ralls County

UTM Coordinates: X = 627707, Y = 4390921Receiving Waterbody: Tributary to Big Creek (C)

First Classified Waterbody and ID: 100K Extent-Remaining Streams; (C) WBID# 3960

USGS Basin & Sub-watershed No.: Salt (07110007-0302)

Maximum Flow: 0.94 MGD (based on 10 year 24 hour storm event)

 $\underline{OUTFALL\,\#002}-Stormwater\ only$

Stormwater from the southeast portion of the closed and capped landfill; settling basin Legal Description: SW¹/₄, NE¹/₄, Sec.7, T56N, R5W, Ralls County

UTM Coordinates: X = 628366, Y = 4391137Receiving Waterbody: Tributary to Big Creek (C)

First Classified Waterbody and ID: 100K Extent-Remaining Streams; (C) WBID# 3960

USGS Basin & Sub-watershed No.: Salt (07110007-0302)

Maximum Flow: 1.05 MGD (based on 10 year 24 hour storm event)

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001 & #002

Stormwater Only

TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The facility is authorized to discharge from outfall(s) as specified. The final effluent limitations shall become effective on $\underline{\text{August 1, 2022}}$ and remain in effect until expiration of the permit. Discharges shall be controlled, limited and monitored by the facility as specified below:

		FINAL LIN			MONITORING REQUIREMENTS		
EFFLUENT PARAMETERS	Units	DAILY MAXIMUM	Monthly Average	BENCH- MARKS	Minimum Measurement Frequency	SAMPLE TYPE	
LIMIT SET: Q							
PHYSICAL							
Flow	MGD	*		-	once/quarter ◊	24 Hr Est.	
CONVENTIONAL							
Chemical Oxygen Demand	mg/L	**		90	once/quarter ◊	grab	
Oil & Grease	mg/L	**		10	once/quarter ◊	grab	
pH [†]	SU	6.5 to 9.0		-	once/quarter ◊	grab	
Settleable Solids	mL/L/hr	**		1.5	once/quarter ◊	grab	
Total Suspended Solids	mg/L	80		-	once/quarter ◊	grab	
METALS							
Aluminum, Total Recoverable	μg/L	**		1100	once/quarter ◊	grab	
Copper, Total Recoverable	μg/L	**		28	once/quarter ◊	grab	
Iron, Total Recoverable	μg/L	**		4000	once/quarter ◊	grab	
Selenium, Total Recoverable £	μg/L	*		-	once/quarter ◊	grab	
Silver, Total Recoverable	μg/L	*		-	once/quarter ◊	grab	
Thallium, Total Recoverable €	μg/L	*		-	once/quarter ◊	grab	
NUTRIENTS							
Ammonia as N	mg/L	*		-	once/quarter ◊	grab	
OTHER							
Benzene	μg/L	*		-	once/quarter ◊	grab	
Chloride	mg/L	*		-	once/quarter ◊	grab	
Chloride + Sulfate	mg/L	1000		-	once/quarter ◊	grab	
Sulfate	mg/L	*		-	once/quarter ◊ gr		
MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE OCTOBER 28, 2022.							

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A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

- * Monitoring and reporting requirement only
- ** Monitoring and reporting requirement with benchmark. See Special Conditions for additional requirements.
- † pH: the facility will report the minimum and maximum values; pH is not to be averaged.
- £ This permit establishes effluent limitations/monitoring for total recoverable selenium which are below the most commonly used analytical methods detection limits. However, 40 CFR 136 indicates effluent characteristics can be effectively quantified using EPA approved method 200.9 or 3113B. These methods have detection limits of 0.6 μg/L and 2 μg/L respectively; either may be used to determine compliance with this permit. Additionally, if monitoring only, the facility must choose one of the above methods to attain compliance with Standard Conditions Part I §A No. 4.
- € This permit establishes effluent limitations/monitoring for total recoverable thallium which are below the most commonly used analytical methods detection limits. However, 40 CFR 136 indicates effluent characteristics can be effectively quantified using EPA approved method 200.9 or 200.8/3120B. These methods have detection limits of 0.7 μg/L and 1 μg/L respectively; either may be used to determine compliance with this permit. Additionally, if monitoring only, the facility must choose one of the above methods to attain compliance with Standard Conditions Part I §A No. 4.
- ¥ This permit establishes effluent limitations/monitoring for dissolved hexavalent chromium. This permit establishes the requirement to use Standard Method 3500-Cr C-2011 or newer to ensure data submitted to the Department conforms to the most sensitive method as required by Standard Conditions Part I §A No. 4 and is analyzed within the required method holding times.

♦ Quarterly sampling

MINIMUM QUARTERLY SAMPLING REQUIREMENTS				
QUARTER	MONTHS	QUARTERLY EFFLUENT PARAMETERS	REPORT IS DUE	
First	January, February, March	Sample at least once during any month of the quarter	April 28th	
Second	April, May, June	Sample at least once during any month of the quarter	July 28th	
Third	July, August, September	Sample at least once during any month of the quarter	October 28th	
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th	

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>August 1, 2014</u>, respectively, and hereby incorporated as though fully set forth herein.

C. SPECIAL CONDITIONS

- 1. Spills, Overflows, and Other Unauthorized Discharges.
 - (a) Any spill, overflow, or other discharge(s) not specifically authorized are unauthorized discharges.
 - (b) If an unauthorized discharge cause or permit any contaminants to discharge or enter waters of the state, the unauthorized discharge must be reported to the regional office as soon as practicable but no more than 24 hours after the discovery of the discharge. If the spill or overflow needs to be reported after normal business hours or on the weekend, the facility must call the Department's 24 hour spill line at 573-634-2436.
 - (c) If the unauthorized discharge was an overflow from a no-discharge wastewater basin, the report must include all records confirming operation and maintenance records documenting proper maintenance. Operations must demonstrate the ability to meet the no-discharge requirement. This requirement may be met by 1) complying with the design requirements in 10 CSR 20-8.200 or 2) or providing other acceptable documentation.
- 2. Leachate cannot be discharged. Stormwater which has come into contact with leachate is considered leachate and cannot be discharged. Leachate, and stormwater which has come into contact with leachate, must be managed in accordance with the provisions contained in the Missouri Solid Waste Management Laws, regulations, and Sanitary Landfill Operating Permit; and Hazardous Waste Program (if applicable).

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- 3. No-Discharge Wastewater Holding Structure(s) Minimum Best Management Practices (BMPs):
 - (a) To prevent unauthorized discharges, the no-discharge wastewater structure must be properly designed, operated, and maintained to contain all wastewater plus run-in and direct precipitation.
 - (b) During normal and dry weather conditions, the liquid level in the storage structure shall be maintained below the upper operating level, so adequate storage capacity is available for use during adverse and wet weather periods. The liquid level in the storage structure must be lowered on a routine schedule based on the design storage period. Typically this can be accomplished prior to expected seasonal wet and winter climate periods.
 - (c) Maintain liquid level in the no-discharge wastewater structure at least 2.0 feet from the bottom of the discharge pipe, top of the basin, or the bottom of the overflow canal, whichever is lowest.
 - (d) Weekly inspection of no-discharge wastewater basin(s) shall occur. Inspection notes will be kept at the facility and made available to the Department upon request. Electronic records retention is acceptable.
 - (e) The inspections will note any issues with the no-discharge structure and will record the level of liquid as indicated by the depth marker.
- 4. Any discharge not meeting permitted limits may be pumped and hauled to an accepting wastewater treatment facility or otherwise properly disposed.
- 5. Electronic Discharge Monitoring Report (eDMR) Submission System. The NPDES Electronic Reporting Rule, 40 CFR Part 127, reporting of effluent monitoring data and any report required by the permit (unless specifically directed otherwise by the permit), shall be submitted via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data for the NPDES program. The eDMR system is currently the only Department-approved reporting method for this permit unless specified elsewhere in this permit, or a waiver is granted by the Department. The facility must register in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before the first report is due. All reports uploaded into the system shall be reasonably named so they are easily identifiable, such as "WET Test Chronic Outfall 002 Jan 2023", or "Outfall004-DailyData-Mar2025".
- 6. Stormwater Pollution Prevention Plan (SWPPP).
 - The facility's SIC code or description is found in 40 CFR 122.26(b)(14) and/or 10 CSR 20-6.200(2) and hence shall implement a Stormwater Pollution Prevention Plan (SWPP) which must be prepared and implemented upon permit effective date. The SWPPP must be kept on-site and not sent to the Department unless specifically requested. The SWPPP must be reviewed and updated annually or if site conditions affecting stormwater change. The facility shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP in accordance with the concepts and methods described in: *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002 March 2021) https://www.epa.gov/sites/production/files/2021-03/documents/swppp guide industrial 2021 030121.pdf The purpose of the SWPPP and the Best Management Practices (BMPs) listed herein is the prevention of pollution of waters of the state. A deficiency of a BMP means it was ineffective at providing the necessary protections for which it was designed. Corrective action describes the steps the facility took to eliminate the deficiency.

The SWPPP must include:

- (a) A listing of specific contaminants and their control measures (BMPs) and a narrative explaining how BMPs are implemented to control and minimize the amount of contaminants potentially entering stormwater.
- (b) A map with all outfalls and structural BMPs marked.
- (c) If within the boundaries of a regulated Municipal Separate Storm Sewer System (MS4s), list the name of the regulated MS4.
- (d) A schedule for at least once per month site inspections and brief written reports. The inspection report must include precipitation information for the entire period since last inspection, as well as observations and evaluations of BMP effectiveness. A BMP is considered to be disrupted if it is rendered ineffective as a result of damage or improper maintenance. Categorization of a deficiency is reliant on the length of time required to correct each disrupted BMP. Corrective action after discovering a disrupted BMP must be taken as soon as possible. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
 - (1) Operational deficiencies are disrupted BMPs which the facility is able to and must correct within 7 calendar days.
 - (2) Minor structural deficiencies are disrupted BMPs which the facility is able to and must correct within 14 calendar days.
 - (3) Major structural deficiencies (deficiencies projected to take longer than 14 days to correct) are disrupted BMPs which must be reported as an uploaded attachment through the eDMR system with the DMRs. The initial report shall consist of the deficiency noted, the proposed remedies, the interim or temporary remedies (including proposed timing of the placement of the interim measures), and an estimate of the timeframe needed to wholly complete the repairs or construction. If required by the Department, the facility shall work with the regional office to determine the best course of action. The facility may consider temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.
 - (4) All actions taken to correct the deficiencies shall be included with the written report, including photographs, and kept with the SWPPP. Additionally, corrective action of major structural deficiencies shall be reported as an uploaded attachment through the eDMR system with the DMRs.

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C. SPECIAL CONDITIONS (CONTINUED)

- (5) BMP failure causing discharge through an unregistered outfall is considered an illicit discharge and must be reported in accordance with Standard Conditions Part I.
- (6) Inspection reports must be kept on site with the SWPPP and maintained for a period of five (5) years. These must be made available to Department personnel upon request. Electronic versions of the documents and photographs are acceptable.
- (e) A provision for designating a responsible individual for environmental matters and a provision for providing training to all personnel involved in housekeeping, material handling (including but not limited to loading and unloading), storage, and staging of all operational, maintenance, storage, and cleaning areas. Proof of training shall be submitted upon request by the Department.
- 7. Site-wide minimum Best Management Practices (BMPs). At a minimum, the facility shall adhere to the following:
 - (a) Provide good housekeeping practices on the site to keep trash from entry into waters of the state. Dumpsters must remain closed when not in use.
 - (b) Prevent the spillage or loss of fluids, oil, grease, fuel, etc. from vehicle maintenance, equipment cleaning, warehouse activities, and other areas, to prevent the contamination of stormwater from these substances.
 - (c) Provide collection facilities and arrange for proper disposal of waste products including but not limited to petroleum waste products, and solvents.
 - (d) Store all paint, solvents, petroleum products, petroleum waste products (except fuels), and storage containers (such as drums, cans, or cartons) so these materials are not exposed to stormwater or provide other prescribed BMPs such as plastic lids and/or portable spill pans to prevent the commingling of stormwater 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. Spill records shall be retained on-site or readily accessible electronically.
 - (e) Provide sediment and erosion control sufficient to prevent or minimize sediment loss off of the property, and to protect embankments from erosion.
 - (f) Remove sediment from stormwater sediment pond(s) no less than every ten years, or more frequently dependent on the amount of sediment received; sediment accumulated shall be no more than 20% total volume or as prescribed in the engineering design, whichever is less. Records must be retained since last cleanout and submitted with the application for renewal.
 - (g) Wash water for vehicles, building(s), or pavement must be handled in a no-discharge manner (infiltration, hauled off-site, etc.). Describe the no-discharge method used and include all pertinent information (quantity/frequency, soap use, effluent destination, BMPs, etc.) in the application for renewal. If wash water is not produced, note this instead.
 - (h) After snow or ice, if the facility applies sand/salt to the pavement of parking lots, sidewalks, or stairs, the facility shall sweep the lots to remove sand/salt as soon as possible after snow or ice melt, collect excess solids, and minimize and control the discharge of solids into stormwater inlets. Salt and sand shall be stored in a manner minimizing mobilization in stormwater (for example: under roof, in covered container, in secondary containment, under tarp, etc.).
- 8. Stormwater Benchmarks. This permit stipulates numeric pollutant benchmarks applicable to the facility's stormwater discharges.
 - (a) Benchmarks do not constitute direct numeric effluent limitations; therefore, a benchmark exceedance alone is not a permit violation. Stormwater monitoring, numeric benchmark compliance, and visual inspections shall be used to determine the overall effectiveness of the BMPs identified in the SWPPP.
 - (b) If a sample exceeds a benchmark concentration, the facility must review the SWPPP and BMPs to determine what improvements or additional controls are needed to reduce pollutant concentrations in future stormwater discharges.
 - (c) Every time a numeric benchmark exceedance occurs, a Corrective Action Report (CAR) must be completed. A CAR is a document recording the efforts undertaken by the facility to improve BMPs to meet benchmarks in future samples. CARs must be retained with the SWPPP and be available to the Department upon request. This permit may require CARs be submitted to the Department upon permit renewal; see Renewal Requirements section below.
 - (d) Failure to take corrective action to address numeric benchmark exceedance, and failure to make measureable progress towards achieving the numeric benchmark(s), is a permit violation.
 - (e) Stormwater benchmarks and required minimum BMPs as described in this permit are enforceable permit conditions. Any requested change(s) to numeric benchmark values or deviation from minimum BMP requirements must be established through the permitting process. Assessment, evaluation, and implementation of specific BMPs to meet numeric benchmarks or minimum BMP requirements, must be addressed through the SWPPPs and CARs.
- 9. Proper and continued operation and maintenance pursuant to 40 CFR 122.41(e). At all times the facility shall properly operate, maintain, and control all systems of treatment and control (and related appurtenances) which are installed or used by the facility to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or

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C. SPECIAL CONDITIONS (CONTINUED)

similar systems which are installed by a facility only when the operation is necessary to achieve compliance with the conditions of the permit.

- 10. The full implementation of this operating permit, which includes implementation of any applicable schedules of compliance, shall constitute compliance with all applicable federal and state statutes and regulations in accordance with 644.051.16 RSMo for permit shield, and the CWA §402(k) for toxic substances. This permit may be reopened and modified, or alternatively revoked and reissued to comply with any applicable effluent standard or limitation issued or approved under CWA §§301(b)(2)(C) and (D), §304(b)(2), and §307(a)(2), if the effluent standard or limitation so issued or approved contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or controls any pollutant not already limited in the permit. This permit may be modified, revoked and reissued, or terminated for cause, including determination new pollutants found in the discharge not identified in the application for the new or revised permit. The filing of a request by the facility for a permit modification, termination, notice of planned changes, or anticipated non-compliance does not stay any permit condition.
- 11. All outfalls must be clearly marked in the field.
- 12. If "No Discharge" is reported on the DMR for the quarter, a daily precipitation log for the quarter must be attached to the "No Discharge" report verifying no qualifying rain events occurred. If there are qualifying rain events in a quarter, but no discharge was reported from the outfall, the permittee may attach photos or other explanation as to why a sample was not taken. It is the discretion of DNR to determine compliance with this special condition. It is a violation of this permit to report no discharge in a quarter when a discharge has occurred.
- 13. Report no discharge when a discharge does not occur during the report period. It is a violation of this permit to report no-discharge when a discharge has occurred.
- 14. Reporting of Non-Detects.
 - (a) Compliance analysis conducted by the facility or any contracted laboratory shall be conducted in such a way the precision and accuracy of the analyzed result can be enumerated. See sufficiently sensitive test method requirements in Standard Conditions Part I, §A, No. 4 regarding proper testing and detection limits used for sample analysis. For the purposes of this permit, the definitions in 40 CFR 136 apply; method detection limit (MDL) and laboratory-established reporting limit (RL) are used interchangeably in this permit. The reporting limits established by the laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML.
 - (b) The facility shall not report a sample result as "non-detect" without also reporting the MDL. Reporting "non-detect" without also including the MDL will be considered failure to report, which is a violation of this permit.
 - (c) For the daily maximum, the facility shall report the highest value; if the highest value was a non-detect, use the less than "<" symbol and the laboratory's highest method detection limit (MDL) or the highest reporting limit (RL); whichever is higher (e.g. <6).
 - (d) When calculating monthly averages, zero shall be used in place of any value(s) not detected. Where all data used in the average are below the MDL or RL, the highest MDL or RL shall be reported as "<#" for the average as indicated in item (c).
- 15. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
- 16. This permit does not cover land disturbance activities.
- 17. This permit does not apply to fertilizer products receiving a current exemption under the Missouri Clean Water Law and regulations in 10 CSR 20-6.015(3)(B)8, and are land applied in accordance with the exemption.
- 18. This permit does not allow stream channel or wetland alterations unless approved by Clean Water Act §404 permitting authorities.
- 19. This permit does not authorize in-stream treatment, the placement of fill materials in flood plains, placement of solid materials into any waterway, the obstruction of stream flow, or changing the channel of a defined drainage course.
- 20. All records required by this permit may be maintained electronically per 432.255 RSMo. These records can be maintained in a searchable format.
- 21. Changes in Discharges of Toxic Pollutant.

 In addition to the reporting requirements under 40 CFR 122.41, all existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director per 40 CFR 122.42(a)(1) and (2) as soon as recognizing:

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C. SPECIAL CONDITIONS (CONTINUED)

- (a) An activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, 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 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile;
 - (3) Five hundred micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4, 6-dinitrophenol;
 - (4) One milligram per liter (1 mg/L) for antimony;
 - (5) Five (5) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7); or
 - (6) The notification level established by the Department in accordance with 40 CFR 122.44(f).
- (b) Any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 µg/L);
 - (2) One milligram per liter (1 mg/L) for antimony;
 - (3) Ten (10) times the maximum concentration value reported for the pollutant in the permit application in accordance with 40 CFR 122.21(g)(7).
 - (4) The level established by the Director in accordance with 40 CFR 122.44(f).
- (c) Authorization of new or expanded pollutant discharges may be required under a permit modification or renewal, and may require an antidegradation review.
- 22. This permit does not authorize the facility to accept, treat, or discharge wastewater from other sources unless explicitly authorized herein. If the facility would like to accept, treat, or discharge wastewater from another activity or facility, the permit must be modified to include external wastewater pollutant sources in the permit.
- 23. Any discharges (or qualified activities such as land application) not expressly authorized in this permit, and not clearly disclosed in the permit application, cannot become authorized or shielded from liability under CWA section 402(k) or Section 644.051.16, RSMo, by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including any other permit applications, funding applications, the SWPPP, discharge monitoring reporting, or during an inspection. Submit a permit modification application, as well as an antidegradation determination if appropriate, to request authorization of new or expanded discharges.
- 24. Renewal Application Requirements.
 - (a) This facility shall submit an appropriate and complete application to the Department no less than 180 days prior to the expiration date listed on page 1 of the permit.
 - (b) Application materials shall include complete Form A, and Form C, and Form D. If the form names have changed, the facility must ensure they are submitting the correct forms as required by regulation.
 - (c) Sampling for all parameters on Form D is required by law for all process wastewater at this facility.
 - (d) The facility must sample the stormwater outfalls and provide analysis for every parameter contained in the permit at any outfall for at the site in accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II)
 - (e) Sufficiently sensitive analytical methods must be used. A sufficiently sensitive method is one that can effectively describe the presence or absence of a pollutant at or below that pollutant's permit limit or water quality standard.
 - (f) The facility may use the electronic submission system to submit the application to the Program, if available.
 - (g) This facility must submit all corrective action reports completed for the last permit term if a benchmark exceedance occurred.

F. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to pursue an appeal before the administrative hearing commission (AHC) pursuant to 621.250 and 644.051.6 RSMo. To appeal, you must file a petition with the AHC within thirty days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal shall be directed to:

Administrative Hearing Commission U.S. Post Office Building, Third Floor 131 West High Street, P.O. Box 1557 Jefferson City, MO 65102-1557 Phone: 573-751-2422

> Fax: 573-751-5018 Website: https://ahc.mo.gov

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0112721 HANNIBAL SANITARY LANDFILL

The Federal Water Pollution Control Act (Clean Water Act (CWA) §402 Public Law 92-500 as amended) established the National Pollutant 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 stormwater from certain point sources. All such discharges are unlawful without a permit (§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 644 RSMo as amended). MSOPs may also cover underground injection, non-discharging facilities, and land application facilities. Permits are issued for a period of five (5) years unless otherwise specified for less.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)(A)2.] a factsheet shall be prepared to give pertinent information regarding applicable regulations, rationale for the development of limitations and conditions, and the public participation process for the Missouri State Operating Permit (MSOP or permit) listed below. A factsheet is not an enforceable part of a permit.

PART I. FACILITY INFORMATION

Facility Type: Industrial: Primary, Categorical; <1 MGD

 SIC Code(s):
 4953

 NAICS Code(s):
 562212

 Application Date:
 01/31/2022

 Modification Date:
 06/16/2014

 Expiration Date:
 06/30/2021

 Last Inspection:
 07/08/2016

FACILITY DESCRIPTION

The Hannibal Sanitary Landfill was first issued a solid waste permit on January 20, 1975. This site consisted of approximately 80 acers, of which approximately eight acres was later designed for use as a permitted sanitary landfill. The existing portion of the 80 acre tract as being used for the disposal of solid waste prior to the Missouri Solid Waste Management Law coming into effect. That portion of the site was closed in accordance with approved engineering plans submitted by the City of Hannibal beginning in 1975. This site was later permitted as a 13.25 acre site, with an estimated nine acres used for actual disposal of waste by using the trench method. This section of the landfill is located on the west side of the entrance road to the property. The City of Hannibal ceased accepting waste at this site in 1979. Stormwater from this portion of the landfill discharges from the property through outfall #002.

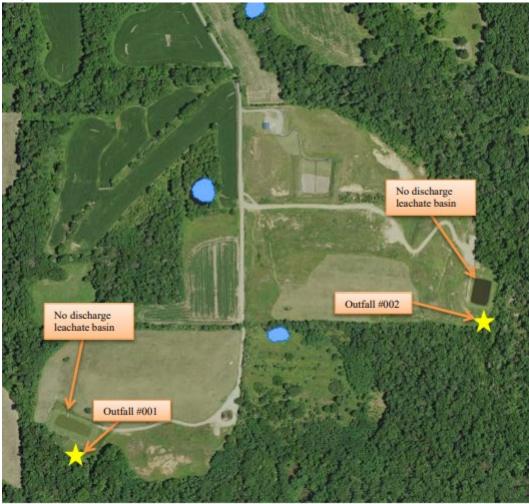
Phase II was the second permitted disposal site used by the City of Hannibal with a permit being issued by the Department on January 24, 2980. The site consisted of 10 acres, of which two acres was permitted for use at the time. The Department on February 9, 1981 issued the third and final site used by the City of Hannibal. The site was originally permitted as 17.79 acres, of which an estimated 14.29 acres was used for the placement of waste. The City of Hannibal ceased accepting waste at this site in 1993. Thereafter, the City of Hannibal constructed leachate collection systems, leachate holding basins, and an irrigation system for the management of leachate from both permitted sites. Stormwater from this portion of the landfill discharges from the property through outfall #001.

The City of Hannibal received final closure for both permitted sites by the Missouri Department of Natural Resources' Solid Waste Management Program on September 17, 1998.

PERMITTED FEATURES TABLE

OUTFALL	AVERAGE FLOW	DESIGN FLOW	TREATMENT LEVEL	EFFLUENT TYPE
#001	Dependent on precipitation	0.94 MGD	BMPs	Industrial Stormwater
#002	Dependent on precipitation	1.05 MGD	BMPs	Industrial Stormwater

FACILITY MAP



FACILITY PERFORMANCE HISTORY & COMMENTS

The electronic discharge monitoring reports were reviewed for the last permit term. There were no limit exceedances.

CONTINUING AUTHORITY

Pursuant to 10 CSR 20-6.010(2)(A) the Department has received the appropriate continuing authority authorized signature from the facility. The City of Hannibal is a level 1 authority and does not require a written statement from higher level authority declining management of the facility under 10 CSR 20-6.010(2)(C)1.

OTHER ENVIRONMENTAL PERMITS

In accordance with 40 CFR 122.21(f)(6), the Department evaluated other environmental permits currently held by this facility. This facility holds no other permits.

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY TABLE:

OUTFALL	Waterbody Name	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-digit HUC
W004 0	Tributary to Big Creek	С	n/a	GEN 0.0 mi		07110007 0202
#001 & #002	100K Extent-Remaining Stream	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.13 mi	07110007-0302 Salt

Classes are representations of hydrologic flow volume or lake basin size as defined in 10 CSR 20-7.031(1)(F). L1: Lakes with drinking water supply - wastewater discharges are not permitted to occur to L1 watersheds per 10 CSR 20-7.015(3)(C); L2: major reservoirs; L3: all other public and private lakes; P: permanent streams; C: streams which may cease flow in dry periods but maintain pools supporting aquatic life; E: streams which do not maintain surface flow; and W: wetlands. Losing streams are defined in 10 CSR 20-7.031(1)(O) and are designated on the losing stream dataset or determined by the Department to lose 30% or more of flow to the subsurface.

WBID: Waterbody Identification Number: Missouri Use Designation Dataset per 10 CSR 20-7.031(1)(Q) and (S) as 100K Extent-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at ttp://msdis.missouri.edu/pub/Inland Water Resources/MO 2014 WQS Stream Classifications and Use shp.zip; New C streams described on the dataset per 10 CSR 20-7.031(2)(A)3 as 100K Extent Remaining Streams.

HUC: Hydrologic Unit Code https://water.usgs.gov/GIS/huc.html

Designated Uses:

10 CSR 20-7.031(1)(C)1: **ALP** – Aquatic Life Protection (formerly AQL); current uses are defined to ensure the protection and propagation of fish shellfish and wildlife, further subcategorized as: WWH – Warm Water Habitat; CLH – Cool Water Habitat; CDH – Cold Water Habitat; EAH – Ephemeral Aquatic Habitat; MAH – Modified Aquatic Habitat; LAH – Limited Aquatic Habitat. This permit uses ALP effluent limitations in 10 CSR 20-7.031 Table A1-B3 for all habitat designations unless otherwise specified.

10 CSR 20-7.031(1)(C)2: Recreation in and on the water

WBC is Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A – whole body contact recreation supporting swimming uses and has public access;

WBC-B - whole body contact recreation not included in WBC-A;

SCR = Secondary Contact Recreation (like fishing, wading, and boating)

10 CSR 20-7.031(1)(C)3 to 7:

HHP (formerly HHF) - Human Health Protection as it relates to the consumption of fish and drinking of water;

IRR – irrigation for use on crops utilized for human or livestock consumption, includes aquifers per 10 CSR 20-7.031(6)(A);

LWW – Livestock and Wildlife Watering (current narrative use is defined as LWP = Livestock and Wildlife Protection), includes aquifers per 10 CSR 20-7.031(6)(A);

DWS – Drinking Water Supply, includes aquifers per 10 CSR 20-7.031(6)(A);

IND – industrial water supply

10 CSR 20-7.031(1)(C)8 to 11: Wetlands (10 CSR 20-7.031 Tables A1-B3) do not have corresponding habitat use criteria for these defined uses: WSA – storm- and flood-water storage and attenuation; WHP – habitat for resident and migratory wildlife species; WRC – recreational, cultural, educational, scientific, and natural aesthetic values and uses; WHC – hydrologic cycle maintenance.

10 CSR 20-7.015(7) and 10 CSR 20-7.031(6): **GRW** = Groundwater

Other Applicable Criteria:

10 CSR 20-7.031(4): **GEN** –; GEN may be assigned on a case by case basis if the NHD line is determined to be a water requiring protection by the Watershed Protection Section.

10 CSR 20-7.031(5)(N)6: NNC – lake numeric nutrient criteria apply

Water Quality Standards Search https://apps5.mo.gov/mocwis_public/waterQualityStandardsSearch.do

WATERS OF THE STATE DESIGNATIONS

Waters of the state are divided into seven categories per 10 CSR 20-7.015(1)(B)1 through 7. The applicable water of the state category is listed below. Missouri's technology-based effluent regulations are found in [10 CSR 20-7.015] and are implemented in 10 CSR 20-7.015(2) through (8). When implementing technology regulations, considerations are made for the facility type, discharge type, and category of waters of the state. Stormwater discharges and land application sites are not subject to limitations found in 10 CSR 20-7.015. Effluent limitation derivations are discussed in PART IV: EFFLUENTS LIMITS DETERMINATIONS.

✓ All other waters; identified at 10 CSR 20-7.015(1)(B)7 and 10 CSR 20-7.015(8)

EXISTING WATER QUALITY & IMPAIRMENTS

The receiving waterbody(s) segment(s), upstream, and downstream confluence water quality was reviewed. No relevant water quality data was available. The USGS https://waterdata.usgs.gov/nwis/sw or the Department's quality data database was reviewed. https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and https://apps5.mo.gov/wqa/ The Department's quality data database was reviewed. https://apps5.mo.gov/mocwis_public/wqa/waterbodySearch.do and https://apps5.mo.gov/wqa/ Impaired waterbodies which may be impacted by discharges from this facility were determined. Impairments include waterbodies on the 305(b) or 303(d) list and those waterbodies or watersheds under a TMDL. https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards- impaired-waters-total-maximum-daily-loads/tmdls Section 303(d) of the federal Clean Water Act requires each state identify waters not meeting water quality standards and for which adequate water pollution controls have not been required. https://dnr.mo.gov/water/what-were-doing/water-planning/quality-standards-impaired-waters-total-maximum-daily-loads/impairedwaters 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 impaired waters not addressed by normal water pollution control programs. A TMDL is a calculation of the maximum amount of a given pollutant a water body can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the §303(d) list, then a watershed management plan or TMDL for that watershed may be developed. The TMDL shall include the WLA calculation.

✓ There are no upstream or downstream impairments near this facility.

WATERBODY MIXING CONSIDERATIONS

For all wastewater outfalls, mixing zone and zone of initial dilution are not allowed per 10 CSR 20-7.031(5)(A)4.B.(I)(a) and (b), as the base stream flow does not provide dilution to the effluent. For information how this regulation is used in determining effluent limits with or without mixing, see WASTELOAD ALLOCATION in Part III. If the base stream flow is above 0.1 cfs, mixing may be applied if 1) zones of passage are present, 2) mixing velocities are sufficient and stream bank configuration allows, 3) the aquatic life support system is maintained, 4) mixing zones do not overlap, 5) there are no drinking water intakes in the vicinity downstream, 6) the stream or lake has available pollutant loading to be allocated, and 7) downstream uses are protected. If mixing was not allowed in this permit, the facility may submit information, such as modeling, as to why mixing may be afforded to the outfall.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

ANTIBACKSLIDING

Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(l)] require a reissued permit to be as stringent as the previous permit with some exceptions. Backsliding (a less stringent permit limitation) is only allowed under certain conditions.

- Limitations in this operating permit reissuance conform to the anti-backsliding provisions of CWA §402(o), and 40 CFR 122.44.
 - ✓ CFR 122.44(l)(i)(B)(1); information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) which would have justified the application of a less stringent effluent limitation.
 - Five years of DMR data were available to support the replacement of effluent limitations with a benchmark value for iron. Values ranged from 610 to 870 μ g/L, which are well below the benchmark value of 4000 μ g/L.
 - ✓ 40 CFR 122.44(l)(i)(B)(2); the Department determined technical mistakes or mistaken interpretations of law were made in issuing the permit under CWA §402(a)(1)(b).
 - The previous permit's special conditions required sampling of total petroleum hydrocarbons (TPH) under the decision model to discharge stormwater having a sheen in secondary containment. The special condition has been revised in all permits beginning in 2015 to remove TPH as 40 CFR 136 does not contain any approved methods for the TPH parameter nor are there water quality standards for TPH. This permit requires oil and grease and BTEX (benzene, toluene, ethylbenzene, and xylene) sampling of the potentially contaminated stormwater in secondary containment. The facility need only sample for these constituents prior to release when a sheen or petroleum odor is present.
 - This permit does not require submitting precipitation data to the Department. This data should still be reviewed by the facility daily to determine best management practices. This data no longer needs to be submitted to the Department as permitting decisions are based on the submitted precipitation data, and these data are available online.
 - Numerous parameters were removed from this permit because they were determined though DMR data or other factors to not be pollutants of concern at this site. These parameters are as follows: arsenic, beryllium, boron, chromium (VI), manganese, and phosphorus.

ANTIDEGRADATION REVIEW

Wastewater discharges with new, altered, or expanding flows, the Department is to document, by means of antidegradation review, if the use of a water body's available assimilative capacity is justified. The facility must pay for the Department to complete the review. In accordance with Missouri's water quality regulations for antidegradation [10 CSR 20-7.031(3)], degradation may be justified by documenting the socio-economic importance of a discharge after determining the necessity of the discharge.

Facilities must submit the antidegradation review request to the Department prior to establishing, altering, or expanding discharges. See https://dnr.mo.gov/document-search/antidegradation-implementation-procedure Per [10 CSR 20-7.015(4)(A)], new discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream, or 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 has not submitted information proposing expanded or altered process water discharge; no further degradation proposed therefore no further review necessary.

BEST MANAGEMENT PRACTICES

Minimum site-wide best management practices are established in this permit to ensure all facilities are managing their sites equally to protect waters of the state from certain activities which could cause negative effects in receiving water bodies. While not all sites require a SWPPP because the SIC codes are specifically exempted in 40 CFR 122.26(b)(14), these best management practices are not specifically included for stormwater purposes. These practices are minimum requirements for all industrial sites to protect waters of the state. If the minimum best management practices are not followed, the facility may violate general criteria [10 CSR 20-7.031(4)]. Statutes are applicable to all permitted facilities in the state, therefore pollutants cannot be released unless in accordance with 644.011 and 644.016 (17) RSMo.

CLOSURE

To properly decontaminate and close a wastewater basin, the facility must draft a complete closure plan, and include the Closure Request Form #2512 https://dnr.mo.gov/document-search/facility-closure-request-form-mo-780-2512 The publication, Wastewater Treatment Plant Closure - PUB2568 found at https://dnr.mo.gov/print/document-search/pub2568 may be helpful to develop the closure plan. The regional office will then approve the closure plan, and provide authorization to begin the work. The regional office contact information can be found here: https://dnr.mo.gov/about-us/division-environmental-quality/regional-office

COST ANALYSIS FOR COMPLIANCE (CAFCOM)

Pursuant to 644.145 RSMo, when incorporating a new requirement for discharges from publicly owned facilities, or when enforcing provisions of this chapter or the CWA, pertaining to any portion of a publicly owned facility, the Department shall make a finding of affordability on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the CWA. This process is completed through a CAFCom. Permits not including new requirements may be deemed affordable.

✓ The Department is not required to complete a cost analysis for compliance because the facility is not publicly owned.

CHANGES IN DISCHARGES OF TOXIC POLLUTANT

This special condition reiterates the federal rules found in 40 CFR 122.44(f) for technology treatments and 122.42(a)(1) for all other toxic substances. In these rules, the facility is required to report changes in amounts of toxic substances discharged. Toxic substances are defined in 40 CFR 122.2 as "...any pollutant listed as toxic under section 307(a)(1)" or, in the case of "sludge use or disposal practices," any pollutant identified in regulations implementing section 405(d) of the CWA." Section 307 of the clean water act then refers to those parameters listed in 40 CFR 401.15 and any other toxic parameter the Department determines is applicable for reporting under these rules in the permit. The facility must also consider any other toxic pollutant in the discharge as reportable under this condition and must report all increases to the Department as soon as discovered in the effluent. The Department may open the permit to implement any required effluent limits pursuant to CWA §402(k) where sufficient data was not supplied within the application but was supplied at a later date by either the facility or other resource determined to be representative of the discharge, such as sampling by Department personnel.

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 facility is not currently under Water Protection Program enforcement action.

DISCHARGE MONITORING REPORTING - ELECTRONIC (EDMR) SUBMISSION SYSTEM

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by requiring electronic data reporting. To comply with the federal rule, the Department is requiring all facilities to submit discharge monitoring data and reports online. To review historical data, the Department's database has a publically facing search engine, available at https://apps5.mo.gov/mocwis_public/dmrDisclaimer.do

Registration and other information regarding MoGEM can be found at https://dnr.mo.gov/mogem. Information about the eDMR system can be found at https://dnr.mo.gov/env/wpp/edmr.htm.The first user shall register as an Organization Official and the association to the facility must be approved by the Department. To access the eDMR system, use: https://apps5.mo.gov/mogems/welcome.action For assistance using the eDMR system, contact edmr@dnr.mo.gov or call 855-789-3889 or 573-526-2082. To assist the facility in entering data into the eDMR system, the permit describes limit sets designators in each table in Part A of the permit. Facility personnel will use these identifiers to ensure data entry is being completed appropriately. For example, M for monthly, Q for quarterly, A for annual, and others as identified.

Per 40 CFR 127.15 and 127.24, permitted facilities may request a temporary waiver for up to 5 years or a permanent waiver from electronic reporting from the Department. To obtain an electronic reporting waiver, a facility must first submit an eDMR Waiver Request form available on the Department's web page. A request must be made for each operating permit. An approved waiver is not transferable. The Department must review and notify the facility within 120 calendar days of receipt if the waiver request has been approved or rejected [40 CFR 124.27(a)]. During the Department review period as well as after a waiver is granted, the facility must continue submitting a hard-copy of any reports required by their permit. The Department will enter data submitted in hard-copy from those facilities allowed to do so, and electronically submit the data to the EPA on behalf of the facility.

✓ This facility has not been granted a waiver, nor would this facility qualify for a waiver.

DOMESTIC WASTEWATER, SLUDGE, AND BIOSOLIDS

Domestic wastewater is defined as wastewater originating primarily from the sanitary conveyances of bathrooms and kitchens. Domestic wastewater excludes stormwater, wash water, animal waste, process and ancillary wastewater.

✓ Not applicable; this facility discharges domestic wastewater to an off-site permitted wastewater treatment facility (POTW).

Sewage sludge is solid, semi-solid, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Biosolids are solid materials resulting from domestic wastewater treatment meeting federal and state criteria for productive use (i.e. fertilizer) and after having pathogens removed.

✓ Not applicable; the facility does not manage domestic wastewater on-site.

EFFLUENT LIMITATIONS

Two general types of effluent limitations, technology-based effluent limits (TBELs) and water quality based effluent limits (WQBELs) are reviewed. Permits are required to establish the most stringent or most protective limit. If the TBEL or WQBEL does not provide adequate protection for the receiving water, then the other must be used per 10 CSR 20-7.015(9)(A) or 40 CFR 122.44(b)(1). See WASTELOAD ALLOCATION below which describes how WQBEL wasteload allowances are established under the permit. Effluent limitations derived and established for this permit are based on current operations of the facility. Any flow through the outfall is considered a discharge and must be sampled and reported as provided in the permit. Daily maximums and monthly averages are required per 40 CFR 122.45(d)(1) for continuous discharges (not from a POTW).

EMERGENCY DISCHARGE

For non-discharging permits, some permits may allow a small amount of wastewater discharge under very specific circumstances. ✓ Not applicable; this permit does not contain conditions allowing emergency discharges.

FEDERAL EFFLUENT LIMITATION GUIDELINES

Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N These are limitations established by the EPA based on the SIC code and the type of work a facility is conducting. Most ELGs are for process wastewater and some address stormwater. Effluent guidelines are not always established for every pollutant present in a point source discharge. In many instances, EPA promulgates effluent guidelines for an indicator pollutant. Industrial facilities complying with the effluent guidelines for the indicator pollutant will also control other pollutants (e.g. pollutants with a similar chemical structure). For example, EPA may choose to regulate only one of several metals present in the effluent from an industrial category, and compliance with the effluent guidelines will ensure similar metals present in the discharge are adequately controlled. All are technology based limitations which must be met by the applicable facility at all times. If Reasonable Potential is established for any particular parameter, and water-quality derived effluent limits are more protective of the receiving water's quality, the WQS will be used as the limiting factor in accordance with 40 CFR 122.44(d) and 10 CSR 20-7.015(9)(A).

✓ The facility has an associated ELG (40 CFR 445) but does not discharge wastewater to waters of the state; stormwater discharges are not addressed by the ELG.

GENERAL CRITERIA CONSIDERATIONS

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into permits for pollutants determined to cause, have reasonable potential to cause, or to contribute to, an excursion above any water quality standard, including narrative water quality criteria. In order to comply with this regulation, permit decisions were made by completing a reasonable potential determination on whether discharges have reasonable potential to cause, or contribute to an excursion of the general criteria listed in 10 CSR 20-7.031(4). See Part III REASONABLE POTENTIAL for more information. In instances where reasonable potential exists, the permit includes limitations to address the reasonable potential. In discharges where reasonable potential does not exist, the permit may include monitoring to later determine the discharge's potential to impact the narrative criteria. Additionally, 644.076.1 RSMo, as well as Part I §D – Administrative Requirements of Standard Conditions included in this permit state it shall be unlawful for any person to cause or allow any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of §§644.006 to 644.141 of the Missouri Clean Water Law or any standard, rule, or regulation promulgated by the commission. See Part IV for specific determinations.

GROUNDWATER MONITORING

Groundwater is a water of the state according to 644.016(27) RSMo, is subject to regulations at 10 CSR 20-7.015(7) and 10 CSR 20-7.031(6), and must be protected accordingly.

✓ This facility is not required to monitor groundwater for the water protection program.

LAND APPLICATION

Land application, or surficial dispersion of wastewater and/or sludge, is performed by facilities as an alternative to discharging. Authority to regulate these activities is pursuant to 644.026 RSMo. The Department implements requirements for these types of operations pursuant to 10 CSR 20-6.015(4)(A)1 which instructs the Department to develop permit conditions containing limitations, monitoring, reporting, and other requirements to protect soils, crops, surface waters, groundwater, public health, and the environment.

✓ Not applicable; this permit does not authorize operation of a surficial land application system to disperse wastewater or sludge.

LAND DISTURBANCE

Land disturbance, sometimes called construction activities, are actions which cause disturbance of the root layer or soil; these include clearing, grading, and excavating of the land. 40 CFR 122.26(b)(14) and 10 CSR 20-6.200(3) requires permit coverage for these activities. Coverage is not required for facilities when only providing maintenance of original line and grade, hydraulic capacity, or to continue the original purpose of the facility.

✓ Not applicable; this permit does not provide coverage for land disturbance activities. The facility may obtain a separate land disturbance permit (MORA) online at https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/stormwater/construction-land-disturbance MORA permits do not cover disturbance of contaminated soils, however, site specific permits such as this one can be modified to include appropriate controls for land disturbance of contaminated soils by adding site-specific BMP requirements and additional outfalls.

MAJOR WATER USER

Any surface or groundwater user with a water source and the equipment necessary to withdraw or divert 100,000 gallons (or 70 gallons per minute) or more per day combined from all sources from any stream, river, lake, well, spring, or other water source is considered a major water user in Missouri. https://dnr.mo.gov/water/business-industry-other-entities/reporting/major-water-users All major water users are required by law to register water use annually (Missouri Revised Statutes Chapter 256.400 Geology, Water Resources and Geodetic Survey Section). https://dnr.mo.gov/document-search/frequently-asked-major-water-user-questions-pub2236/pub2236

✓ Not applicable; this facility cannot withdraw water from the state in excess of 70 gpm or 0.1 MGD.

METALS

Effluent limitations for total recoverable metals were developed using methods and procedures outlined in the *Technical Support Document For Water Quality-based Toxic Controls* (EPA/505/2-90-001) and *The Metals Translator: Guidance For Calculating a Total Recoverable Permit Limit From a Dissolved Criterion* (EPA 823-B-96-007). "Aquatic Life Protection" in 10 CSR 20-7.031 Tables A1 and A2, as well as general criteria protections in 10 CSR 20-7.031(4) apply to this discharge. The hardness value used for hardness-dependent metals calculations is typically based on the ecoregion's 50th percentile (also known as the median) per 10 CSR 20-7.015(1)(CC), and is reported in the calculations below, unless site specific data was provided. Per a memorandum dated August 6, 2019, the Director has determined limit derivation must use the median of the Level III Ecoregion to calculate permit limits, or site specific data if applicable. Additional use criterion (HHP, DWS, GRW, IRR, or LWW) may also be used, as applicable, to determine the most protective effluent limit for the receiving waterbody's class and uses. HHP, DWS, GRW, IRR, or LWW do not take hardness into account.

MODIFICATION REQUESTS

Facilities have the option to request a permit modification from the Department at any time under RSMo 644.051.9. Requests must be submitted to the Water Protection Program with the appropriate forms and fees paid per 10 CSR 20-6.011. It is recommended facilities contact the program early so the correct forms and fees are submitted, and the modification request can be completed in a timely fashion. Minor modifications, found in 40 CFR 122.63, are processed without the need for a public comment period. Major modifications, those requests not explicitly fitting under 40 CFR 122.63, do require a public notice period. Modifications to permits must be completed when: a new pollutant is found in the discharge; operational or functional changes occur which affect the technology, function, or outcome of treatment; the facility desires alternate numeric benchmarks; or other changes are needed to the permit.

Modifications are not required when utilizing or changing additives in accordance with the publication https://dnr.mo.gov/document-search/additive-usage-wastewater-treatment-facilities-pub2653/pub2653 nor are required when a temporary change or provisional discharge has been authorized by the regional office. While provisional discharges may be authorized by the regional office, they will not be granted for more than the time necessary for the facility to obtain an official modification from the Water Protection Program. Temporary provisional discharges due to weather events or other unforeseen circumstances may or may not necessitate a permit modification. The facility may ask for a Compliance Assistance Visit (CAV) from the regional office to assist in the decision-making process; CAVs are provided free to the permitted entity.

MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

This permit allows discharge to waters of the state. The discharges this permit allows may flow into and through the city's stormwater collection system. Regulated MS4s are managed by public entities, cities, municipalities, or counties. Phase I MS4s are Kansas City, Independence, and Springfield. Phase II MS4s are determined by population or location in an urbanized area. Regulated MS4s are required to develop and maintain a stormwater management program. These programs have requirements for developing and implementing a plan to detect and eliminate illicit discharges to the storm sewer system. Phase I MS4s also maintain oversight programs for industrial and high risk runoff. Regulated MS4s may keep a list of all of the other regulated dischargers (wastewater and stormwater) flowing through their system. If this facility discharges into a separate storm sewer system, the facility must make contact with the owner/operator of that system to coordinate with them. Regulated MS4 operators may request to inspect facilities discharging into their system; a list of regulated MS4s can be viewed at https://anr.mo.gov/document-search/missouris-regulated-municipal-separate-storm-sewer-systems-ms4s or search by permit ID: MOR04 at https://apps5.mo.gov/mocwis_public/permitSearch.do to determine if this facility needs to contact a local stormwater authority.

NUTRIENT MONITORING

Nutrient monitoring is required for facilities characteristically or expected to discharge nutrients (nitrogenous compounds and/or phosphorus) when the design flow is equal to or greater than 0.1 MGD per 10 CSR 20-7.015(9)(D)8. This requirement is applicable to all Missouri waterways.

✓ This is a stormwater only permit therefore not subject to provisions found in 10 CSR 20-7.015(2)-(9) per 10 CSR 20-7.015(1)(C).

Water quality standards per 10 CSR 20-7.031(5)(N) describe nutrient criteria requirements assigned to lakes (which include reservoirs) in Missouri, equal to or greater than 10 acres during normal pool conditions. The Department's Nutrient Criteria Implementation Plan (NCIP) may be reviewed at: https://dnr.mo.gov/document-search/nutrient-criteria-implementation-plan-july-27-2018 Discharges of wastewater in to lakes or lake watersheds designated as L1 (drinking water use) are prohibited per 10 CSR 20-7.015(3)(C).

✓ Not applicable; this facility does not discharge in a lake watershed or the lake is less than 10 acres.

OIL/WATER SEPARATOR SYSTEMS AND USED OIL

Oil water separator (OWS) systems are frequently found at industrial sites where process water, wastewater, or stormwater may contain oils, petroleum, greases, oily wastewaters, or other immiscible liquids requiring separation. Food industry discharges typically require treatment prior to discharge to publically owned treatment works. Per 10 CSR 26-2.010(2)(B), all oil water separators classified as underground storage tanks (UST) which meet the volume requirements, must be operated according to manufacturer's specifications. OWS which are USTs may be authorized in NPDES permits per 10 CSR 26-2.010(2)(B) or otherwise will be regulated as a underground petroleum storage tank under tank rules. A facility may operate an OWS which is not considered a UST for the wastewater or stormwater at any facility without specific NPDES permit authorization. Alternatively, a facility is not required to cover a UST OWS under the NPDES permit if they desire to obtain alternative regulatory compliance. OWS treating animal, vegetable, or food grade oils are not required to be authorized under 10 CSR 20-26-2.020(2)(B). All best management practices for all OWS systems must be adhered. In 2017, field-poured concrete tanks, previously exempted from the tanks rules, lost their exempt status. Facilities must re-evaluate these concrete structures pursuant to these now relevant rules. Adjacent USTs are not covered by these regulations.

Any and all water treatment systems designed to remove floating immiscible oils are termed oil water separators. If a device is intended to capture oil and separate it from water which is to be discharged, this generally qualifies that oil as used oil (if it is petroleum-based in nature). Used oil and oily sludge must be disposed of in accordance with 10 CSR 25-11.279. Pursuant to 40 CFR 279.20(b)(2)(ii)(B), separating used petroleum-based oil from wastewater generated on-site (to make the wastewater acceptable for discharge or reuse pursuant to Federal or state regulations governing the management or discharge of wastewaters) are considered used oil generators and not processors under self-implementing 40 CFR 279 Standards For The Management Of Used Oil. Oily wastes generated by OWS are also generally subject to Spill Prevention, Control, and Countermeasure (SPCC) regulations.

OPERATOR CERTIFICATION REQUIREMENTS

Operators or supervisors of operations at regulated domestic wastewater treatment facilities shall be certified in accordance with 10 CSR 20-9 and any other applicable state law or regulation.

✓ Not applicable; this facility is not required to have a certified operator. This permit does not cover domestic wastewater or the domestic wastewater population equivalent (PE) is less than two hundred (200) individuals. Additionally, this facility is not owned or operated by a municipality, public sewer district, county, public water supply district, or private sewer company regulated by the Public Service Commission, or operated by a state or federal agency. Private entities are exempted from the population equivalent requirement unless the Department has reason to believe a certified operator is necessary.

PFAS VOLUNTARY SAMPLING

The Department is implementing voluntary sampling of per-and polyfluoroalkyl substances, or more commonly known as PFAS. PFAS are a group of compounds common in industrial processes which degrade slowly in the environment and have suspected health effects such as cancer, decreased immune response, hepatotoxicity, and low infant birth weight. Deleterious effects can occur at levels as low as parts per trillion, or 1/1,000,000,000,000 of a gram. EPA plans to 1) require additional testing for facilities within industry groups having the highest likelihood of discharging PFAS; 2) promulgate Effluent Limitation Guidelines for these facilities; and 3) designate PFAS as CERCLA hazardous substances prior to 2024, per their PFAS Strategic Roadmap. Removal technologies for PFAS remain both traditionally expensive and resource-intensive. As such, understanding this facility's reasonable potential to violate future potential effluent limitations prior to their implementation will inform required process improvements in the future. The Department recommends sampling using a modified Test Method 537.1, found here:

https://cfpub.epa.gov/si/si_public_record_Report.cfm?dirEntryId=353897&Lab=CESER

✓ This facility is a landfill. While landfills do not directly produce PFAS, garbage treated with PFAS ranging from food wrappers, to clothing, and more, are all received by landfills. When stormwater percolates through PFAS-impacted garbage, this collects and concentrates into leachate, a high strength waste. As landfills are the catch-all for a variety of PFAS products, it is advisable to test for all 40 analytes described in CWA Test Method 1633. Sample results may be submitted with this permit's renewal application.

PERMIT SHIELD

The permit shield provision of the Clean Water Act (Section 402(k)) and Missouri Clean Water Law (644.051.16 RSMo) provides that when a permit holder is in compliance with its NPDES permit or MSOP, it is effectively in compliance with certain sections of the Clean Water Act, and equivalent sections of the Missouri Clean Water Law. In general, the permit shield is a legal defense against certain enforcement actions, but is only available when the facility is in compliance with its permit and satisfies other specific conditions, including having completely disclosed all discharges and all facility processes and activities to the Department at time of application. It is the facility's responsibility to ensure that all potential pollutants, waste streams, discharges, and activities, as well as wastewater land application, storage, and treatment areas, are all fully disclosed to the Department at the time of application or during the draft permit review process. Previous permit applications are not necessarily evaluated or considered during permit renewal actions. All relevant disclosures must be provided with each permit application, including renewal applications, even when the same information was previously disclosed in a past permit application. Subsequent requests for authorization to discharge additional pollutants, expanded or newly disclosed flows, or for authorization for previously unpermitted and undisclosed activities or discharges, will likely require an official permit modification, including another public participation process.

PRETREATMENT

This permit does not regulate pretreatment requirements for facilities discharging to an accepting permitted wastewater treatment facility. If applicable, the receiving entity (the publicly owned treatment works - POTW) is to ensure compliance with any effluent limitation guidelines for pretreatment listed in 40 CFR Subchapter N per 10 CSR 20-6.100. Pretreatment regulations per 644.016 RSMo are limitations on the introduction of pollutants or water contaminants into publicly owned treatment works or facilities.

✓ Not applicable, this facility does not discharge industrial wastewater to a POTW. Domestic wastewater is not subject to pretreatment requirements.

REASONABLE POTENTIAL (RP)

Regulations per 10 CSR 20-7.015(9)(A)2 and 40 CFR 122.44(d)(1)(i) requires effluent limitations for all pollutants which are (or may be) discharged at a level causing or have the reasonable potential to cause (or contribute to) an in-stream excursion above narrative or numeric water quality standards. Per 10 CSR 20-7.031(4), general criteria shall be applicable to all waters of the state at all times; however, acute toxicity criteria may be exceeded by permit allowance in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit allowance in mixing zones. A reasonable potential analysis (RPA) is a numeric RP decision calculated using effluent data provided by the facility for parameters that have a numeric Water Quality Standard (WQS). If any given pollutant has the reasonable potential to cause or contribute to an in-stream excursion above the WOS, the permit must contain effluent limits for the pollutant per 40 CFR Part 122.44(d)(1)(iii) and the most stringent limits per 10 CSR 20-7.031(9)(A). The RPA is performed using the Technical Support Document for Water Quality Based Toxics Control (TSD) methods (EPA/505/2-90-001) for continuous discharges. See additional considerations under Part II WATERBODY MIXING CONSIDERATIONS and Part III WASTELOAD ALLOCATIONS. Wasteload allocations are determined utilizing the same equations and statistical methodology. Absent sufficient effluent data, effluent limits are derived without consideration of effluent variability and is assumed to be present unless found to be absent to meet the requirements of antidegradation review found in 10 CSR 20-7.031(3) and reporting of toxic substances pursuant to 40 CFR 122.44(f). The Department's permit writer's manual (https://dnr.mo.gov/water/business-industry-other-entities/technical-assistanceguidance/wastewater-permit-writers-manual), the EPA's permit writer's manual (https://www.epa.gov/npdes/npdes-permit-writersmanual), program policies, and best professional judgment guide each decision. Each parameter in each outfall is carefully considered; and all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, inspection reports, stream water quality information, stream flows, uses assigned to each waterbody, and all applicable site specific information and data gathered by the facility through discharge monitoring reports and renewal (or new) application sampling.

Reasonable potential determinations (RPD) are based on physical conditions of the site as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD using best professional judgement. An RPD consists of evaluating visual observations for compliance with narrative criteria, non-numeric information, or small amounts of numerical data (such as 1 data point supplied in the application). Narrative criteria with RP typically translate to a numeric WQS, so a parameter's establishment being based on narrative criteria does not necessarily make the decision an RPD vs RP—how the data is collected does, however. For example, a facility with orange discharge can have RP for narrative criteria like color, but a numeric iron limit is established to account for the violation of narrative criteria based on effluent data submitted by the facility. When insufficient data is received to make a determination on RP based on numeric effluent data, the RPD decisions are based on best professional judgment considering the type of effluent discharged, the current operational controls in place, and historical overall management of the site. In the case of iron causing excursions of narrative criteria for color, if a facility has not had iron monitoring in a previous permit, adding iron monitoring would be an RPD, since numeric data isn't being used in the determination, but observable, site-specific conditions are.

When the facility is performing surficial or subsurface land application, the volume of water, frequency of application, type of vegetation, soil type, land slopes, and general overall operating conditions are considered. 10 CSR 20-8 are regulations for the minimum operating conditions for land application; these regulations cannot be excused even if there is no RP. RP is reserved for discharging outfalls given that these outfalls are the only ones which water quality standards apply to, but the process is similar as the site conditions are compared to regulations, soil sampling, pollutant profile, and other site specific conditions. In the case of non-discharging outfalls, an RPD is instead used to determine monitoring requirements.

The TSD RPA method cannot be performed on stormwater as the flow is intermittent and highly variable. A stormwater RPD consists of reviewing application data and discharge monitoring data and comparing those data to narrative or numeric water quality criteria. For stormwater outfalls, considerations are required per 10 CSR 6.200(6)(B)2: A. application and other information supplied by the facility; B. effluent guidelines; C. best professional judgment; D. water quality; and E. BMPs.

RPDs are also performed for WET testing in wastewater. While no WET regulations specific to industrial wastewater exist, 40 CFR 122.21(j)(5) implies the following can be considered: 1) the variability of the pollutants; 2) the ratio of wastewater flow to receiving stream flow; and 3) current technology employed to remove toxic pollutants. Generally, sufficient data does not exist to mathematically determine RPA for WET, but instead compares the data for other toxic parameters in the wastewater with the necessity to implement WET testing with either monitoring or limits. When toxic parameters exhibit RP, WET testing is generally included in the permit as an RPD. However, if all toxic parameters are controlled via limitations or have exhibited no toxicity in the past, then WET testing may be waived. Only in instances where the wastewater is well characterized can WET testing be waived.

WET testing is not implemented for stormwater as 10 CSR 20-7.015(9)(L) does not apply to stormwater. Precipitation can itself be acidic, or may contain run-in from other un-controlled areas and can provide false positives. Stormwater discharges do not adhere to the same principles of wastewater RPAs because stormwater discharges are not continuous, and at the time of precipitation discharge the receiving stream is also no longer at base (0) flow, meaning that using RP to develop WET testing requirements for stormwater is unrepresentative. The Department works with the Missouri Department of Conservation and has understanding of streams already exhibiting toxicity, even without the influence of industrial wastewater or stormwater. Facilities discharging to streams with historical toxicity are required to use laboratory water for dilution, instead of water from the receiving stream.

TSD methods encountered may be § 3.3.2, § 5.7.3 for metals, and § 5.4.1 for chloride. Part IV EFFLUENT LIMIT DETERMINATIONS provides specific decisions related to this permit.

✓ No statistical RPAs were performed for this permit.

REGIONAL OFFICES (ROS)

Regional Offices will provide a compliance assistance visit at a facility's request; a regional map with links to phone numbers can be found here: https://dnr.mo.gov/about-us/division-environmental-quality/regional-office. Or use https://dnr.mo.gov/compliance-assistance-enforcement to request assistance from the Region online.

RENEWAL REQUIREMENTS

The renewal special condition permit requirement is designed to guide the facility to prepare and include all relevant and applicable information in accordance with 10 CSR 20-6.010(7)(A)-(C), and if applicable, federal regulations. The special condition may not include all requirements and requests for additional information may be made at the time of permit renewal under 644.051.13(5) RSMo and 40 CFR 122.21(h). Prior to submittal, the facility must review the entire submittal to confirm all required information and data is provided; it is the facility's responsibility to discern if additional information is required. Failure to fully disclose applicable information with the application or application addendums may result in a permit revocation per 10 CSR 20-6.010(8)(A) and may result in the forfeiture of permit shield protection authorized in 644.051.16 RSMo. Forms are located at: https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater

SAMPLING FREQUENCY JUSTIFICATION

Sampling frequency for stormwater-only outfalls is typically quarterly even though BMP inspection occurs monthly or more often dependent on site needs. The facility may sample more frequently if additional data is required to determine if best management operations and technology are performing as expected.

SAMPLING TYPE JUSTIFICATION

Sampling type was continued from the previous permit. The sampling types are representative of the discharges, and are protective of water quality. Discharges with altering effluent will consider implementing composite sampling; discharges with uniform effluent can have grab samples. Grab samples are usually appropriate for stormwater. Parameters which must have grab sampling are: pH, ammonia, *E. coli*, total residual chlorine, free available chlorine, hexavalent chromium, dissolved oxygen, total phosphorus, volatile organic compounds, and others. For further information on sampling and testing methods see 10 CSR 20-7.015(9)(D)2.

SCHEDULE OF COMPLIANCE (SOC)

A schedule of remedial measures included in a permit, including an enforceable sequence of interim requirements (actions, effluent limits, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and the terms and conditions of an operating permit. SOCs are allowed under 40 CFR 122.47 and 10 CSR 20-7.031(11) providing certain conditions are met. An SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed in accordance with 40 CFR 125.3.
- For a newly constructed facility in most cases per 644.029 RSMo. Newly constructed facilities must meet all applicable effluent limitations (technology and water quality) when discharge begins. New facilities are required to install the appropriate control technologies as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be specifically granted for conducting these activities.

In order to provide guidance in developing SOCs, and to attain a greater level of consistency, the Department issued a policy on development of SOCs on October 25, 2012. The policy provides guidance for standard time frames for schedules for common activities, and guidance on factors to modify the length of the schedule.

✓ Not applicable; this permit does not contain a SOC.

SECONDARY CONTAINMENT:

The Department has established minimum requirements for secondary containment areas. These conditions are necessary to prevent contamination in stormwater before storm events, and before stormwater has a risk for contamination in these areas. By including dry inspection requirements, the Department can be confident in the site's operational controls. By fixing all leaks and removing debris from the secondary containment areas prior to precipitation events, stormwater collected in the areas are unlikely to yield contamination or elicit sheen thereby allowing immediate removal of stormwater which is in compliance with SPCC plans.

The Department is establishing a permit requirement for visual inspection frequency commiserate with the potential for contamination for secondary containment(s) to protect waters of the state from petroleum contamination, oils and greases, or sheen pursuant to 10 CSR 20-7.031(4)(B); and other water contaminants as necessary. These conditions establish permissible allowances for the facility to discharge stormwater that was either free of sheen or has been cleaned of sheen, but only if the facility has demonstrated, through inspections, the facility has been effectively maintaining tanks and appurtenances in the secondary containment areas.

Historic petroleum secondary containment language required laboratory testing for benzene, toluene, ethylbenzene, and xylene (BTEX) upon sheen observance; to have all laboratory testing completed prior to release of the contained stormwater; and to be below established numeric limits for BTEX prior to release. However, it was noted by commenters that when the Department requires facilities to keep the sheeny accumulated stormwater in the secondary containment for long periods of time (time needed to obtain laboratory results for BTEX, it is contrary to other relevant regulations, which state contaminated stormwater must be disposed of as quickly as possible. Facilities then developed alternative actions, such as tanking sheeny secondary containment stormwater until the expedited BTEX laboratory analysis was completed, then releasing the water from the tank. These alternative methods of tanking sheeny stormwater are both costly and resource-intensive, requiring worker time which needs to be directed to other facility activities. By shifting worker time from post-sheen-occurrence management to pre-contamination dry-inspections, the Department has alleviated several commenter's concerns regarding past secondary containment special conditions.

By allowing on-site sheen removal, then discharge, the Department is allowing expedited drainage of the secondary containment without delay. When a facility properly maintains tanks and appurtenances via these series of inspections and provides sheen removal prior to release, then the facility can maintain compliance with Missouri's requirements for the safe storage and handling of flammable and combustible liquids (2 CSR 90-30.050), storage tank secondary containment volume requirements (40 CFR 112), and Missouri's general water quality criteria 10 CSR 20-7.031(4)(B).

The Department revised petroleum secondary containment special conditions in permits based on National Fire Protection Association (NFPA) standards [mainly NFPA 30], enforceable under Missouri fire prevention codes [2 CSR 90-30.050], and Spill Prevention, Control, and Countermeasure (SPCC) [40 CFR 112] requirements. 2 CSR 90-30.050(20) and (21) specifically reference the Department of Natural Resources' environmental regulations. To apply these referenced conditions, this permit requires periodic secondary containment inspections.

It is acceptable for the inspections this permit requires to contradict the facility's SPCC plan inspection frequency, as these two requirements have different goals; the frequencies designated in the SPCC plan are based on the facility's evaluation of a tankage system's potential for catastrophic failure, not small leaks that result in sheeny stormwater. The inspection frequency this permit identifies for secondary containments have the capability to identify small leaks from appurtenances which have the possibility to cause contamination in standing stormwater, not simply a catastrophic failure. SPCC requirements pursuant to 40 CFR 112.8(c)(3)(iv) and 40 CFR 112.12(c)(3)(iv) also dictate that release of contaminated stormwater is prohibited unless regulated under an NPDES permit which allows for bypassing pursuant to 40 CFR 122.41(m)(3). As this permit does not allow bypassing, the facility must follow the inspection steps listed in the special conditions of this permit.

Many facilities are subject to the requirements outlined by the EPA in 40 CFR 112.3, also known as the SPCC plan: detailing the equipment, workforce, procedures, and steps necessary to prevent, control, and provide adequate countermeasures to a discharge. These regulations minimally require secondary containment and diversion structures be maintained. Title 40 regulations are developed by the Environmental Protection Agency. The self-certified SPCC plan a facility designs, while aimed to protect waters of the state and United States (WOTS/WOTUS), may differ considerably from site to site. This permit's conditions serves to treat similar facilities similarly. The EPA did not establish minimum frequency container or containment inspections; this permit does establish a minimum frequency, and concurrent inspections for this permit and per the SPCC plan may occur. This permit does not require a professional engineer (PE) inspect the tankage systems.

SPILLS, OVERFLOWS, AND OTHER UNAUTHORIZED DISCHARGE REPORTING

Per 260.505 RSMo, any emergency involving a hazardous substance must be reported to the Department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest possible moment after discovery. The Department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the noncompliance reporting requirement found in Standard Conditions Part I. <a href="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSection.aspx?section=260.500&bid=13989&hl="https://revisor.mo.gov/main/OneSectio

Any other spills, overflows, or unauthorized discharges reaching waters of the state must be reported to the regional office during normal business hours, or after normal business hours, to the Department's 24 hour Environmental Emergency Response spill line at 573-634-2436.

Certain industrial facilities are subject to the self-implementing regulations for Oil Pollution Prevention in 40 CFR 112, and are required to initiate and follow Spill Prevention, Control, and Countermeasure (SPCC) Plans. This permit, as issued, is not intended to be a replacement for any SPCC plan, nor can this permit's conditions be automatically relaxed based on the SPCC plan if the permit is more stringent than the plan.

SLUDGE-INDUSTRIAL

Industrial sludge is solid, semi-solid, or liquid residue generated during the treatment of industrial process or non-process wastewater in a treatment works; including but not limited to, scum or solids removed in primary, secondary, or advanced wastewater treatment process; scum and solids filtered from water supplies and backwashed; and any material derived from industrial sludge. Industrial sludge could also be derived from lagoon dredging or other similar maintenance activities. Certain oil sludge, like those from oil water separators, are subject to self-implementing federal regulations under 40 CFR 279 for used oils.

✓ Not applicable; industrial sludge is not generated at this facility.

STANDARD CONDITIONS

The standard conditions Part I attached to this permit incorporate all sections of 10 CSR 20-6.010(8) and 40 CFR 122.41(a) through (n) by reference as required by law. These conditions, in addition to the conditions enumerated within the standard conditions must be reviewed by the facility to ascertain compliance with this permit, state regulations, state statutes, federal regulations, and the Clean Water Act. Standard Conditions Part III, if attached to this permit, incorporate requirements dealing with domestic wastewater, domestic sludge, and land application of domestic wastes.

STORMWATER PERMITTING: LIMITATIONS AND BENCHMARKS

Because of the fleeting nature of stormwater discharges, the Department, under the direction of EPA guidance, has determined monthly averages are capricious measures of stormwater-only discharges. The *Technical Support Document for Water Quality Based Toxics Control* (EPA/505/2-90-001; 1991) §3.1 indicates most procedures within the document apply only to water quality based approaches, not end-of-pipe technology-based controls.

Hence, stormwater-only outfalls will generally only contain a maximum daily limit (MDL), a benchmark, or a monitoring requirement as dictated by site specific conditions, the BMPs in place, the BMPs proposed, past performance of the facility, and the receiving water's current quality.

Sufficient rainfall to cause a discharge for one hour or more from a facility would not necessarily cause significant flow in a receiving stream. Acute Water Quality Standards (WQSs) are based on one hour of exposure, and must be protected at all times. Therefore, industrial stormwater facilities with toxic contaminants present in the stormwater may have the potential to cause a violation of acute WQSs if toxic contaminants occur in sufficient amounts. In this instance, the permit may apply daily maximum limitations.

Conversely, it is unlikely for rainfall to cause a discharge for four continuous days from a facility; if this does occur however, the receiving stream will also likely sustain a significant amount of flow providing dilution. Most chronic WQSs are based on a four-day exposure with some exceptions. Under this scenario, most industrial stormwater facilities have limited potential to cause a violation of chronic water quality standards in the receiving stream.

A standard mass-balance equation cannot be calculated for stormwater because stormwater flow and flow in the receiving stream cannot be determined for conditions on any given day or storm event without real-time ad-hoc monitoring. The amount of stormwater discharged from the facility will vary based on current and previous rainfall, soil saturation, humidity, detention time, BMPs, surface permeability, etc. Flow in the receiving stream will vary based on climatic conditions, size of watershed, area of surfaces with reduced permeability (houses, parking lots, and the like) in the watershed, hydrogeology, topography, etc. Decreased permeability may increase the stream flow dramatically over a short period of time (flash).

Numeric benchmark values are based on site specific requirements taking in to account a number of factors but cannot be applied to any process water discharges. First, the technology in place at the site to control pollutant discharges in stormwater is evaluated. Other permits are also reviewed for similar activities. A review of the guidance forming the basis of Environmental Protection Agency's (EPA's) *Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity* (MSGP) may also occur. Because precipitation events are sudden and momentary, benchmarks based on state or federal standards or recommendations use the Criteria Maximum Concentration (CMC) value, or acute standard may also be used. The CMC is the estimate of the highest concentration of a material in surface water to which an aquatic community can be exposed briefly without resulting in an unacceptable effect. The CMC for aquatic life is intended to be protective of the vast majority of the aquatic communities in the United States. If a facility has not disclosed BMPs applicable to the pollutants for the site, the facility may not be eligible for benchmarks.

40 CFR 122.44(b)(1) requires the permit implement the most stringent limitations for each discharge, including industrially exposed stormwater; and 40 CFR 122.44(d)(1)(i) and (iii) requires the permit to include water-quality based effluent limitations where reasonable potential has been found. However, because of the non-continuous nature of stormwater discharges, staff are unable to perform statistical Reasonable Potential Analysis (RPA) under most stormwater discharge scenarios. Reasonable potential determinations (RPDs; see REASONABLE POTENTIAL above) using best professional judgment are performed.

Benchmarks require the facility to monitor, and if necessary, replace and update stormwater control measures. Benchmark concentrations are not effluent limitations. A benchmark exceedance, therefore, is not a permit violation; however, failure to take corrective action is a violation of the permit. Benchmark monitoring data is used to determine the overall effectiveness of control measures and to assist the facility in knowing when additional corrective actions may be necessary to comply with the conditions of the permit.

BMP inspections typically occur more frequently than sampling. Sampling frequencies are based on the facility's ability to comply with the benchmarks and the requirements of the permit. Inspections must occur after large rain events and any other time an issue is noted; sampling after a benchmark exceedance may need to occur to show the corrective active taken was meaningful.

When a permitted feature or outfall consists of only stormwater, a benchmark may be implemented if there is no RP for water quality excursions.

✓ Applicable, this facility has stormwater-only outfalls where benchmarks or limitations were deemed appropriate contaminant measures.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

Pursuant to 40 CFR 122.44(k), Best Management Practices (BMPs) must be used to control or abate the discharge of pollutants when:

1) Authorized under §304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; 2) Authorized under §402(p) of the CWA for the control of stormwater 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. A BMP may take the form of a numeric benchmark. In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (EPA 833-B-09-002) published by the EPA in 2015 and again in 2021 https://www.epa.gov/sites/default/files/2021-03/documents/swppp_guide_industrial_2021_030121.pdf BMPs are measures or practices used to reduce the amount of pollution entering waters of the state from a permitted facility. BMPs may take the form of a process, activity, or physical structure. Additionally in accordance with the Stormwater 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. Additional information can be found in *Stormwater Management for Industrial Activities: Developing Pollution Prevention Plans and Best Management Practices* (EPA 832-R-92-006; September 1992).

Developing a SWPPP provides opportunities to employ appropriate BMPs to minimize the risk of pollutants being discharged during storm events. The following paragraph outlines the general steps the facility can take to determine which BMPs will work to achieve the benchmark values or limits in the permit. This section is not intended to be all encompassing or restrict the use of any physical BMP or operational and maintenance procedure assisting in pollution control. Additional steps or revisions to the SWPPP may be required to meet the requirements of the permit.

The facility can review the precipitation frequency maps for development of appropriate BMPs. The online map https://hdsc.nws.noaa.gov/hdsc/pfds/pfds map cont.html?bkmrk=mo can be targeted to the facility location and is useful when designing detention structures and planning for any structural BMP component. The stormwater map can also be used to determine if the volume of stormwater caused a disrupted BMP; and if the BMP must be re-designed to incorporate additional stormwater flows.

Areas which must be included in the SWPPP are identified in 40 CFR 122.26(b)(14). Once the potential sources of stormwater pollution have been identified, a plan shall be formulated to best control the amount of pollutant being released and discharged by each activity or source. This must include, but is not limited to, minimizing exposure to stormwater, good housekeeping measures, proper facility and equipment maintenance, spill prevention and response, vehicle traffic control, and proper materials handling. Once a plan has been developed the facility will employ the control measures determined to be adequate to achieve the benchmark values discussed above. The facility will conduct monitoring and inspections of the BMPs to ensure they are working properly and reevaluate any BMP not achieving compliance with permitting requirements. For example, if sample results from an outfall show values of TSS above the benchmark value, the BMP being employed is deficient in controlling stormwater pollution. Corrective action must be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but may be continued more frequently if BMPs continue to fail. If failures do occur, continue this trial and error process until appropriate BMPs have been established.

For new, altered, or expanded stormwater discharges, the SWPPP shall identify reasonable and effective BMPs while accounting for environmental impacts of varying control methods. The antidegradation analysis must document why no discharge or no exposure options are not feasible. The selection and documentation of appropriate control measures shall serve as an alternative analysis of technology and fulfill the requirements of antidegradation [10 CSR 20-7.031(3)]. For further guidance, consult the antidegradation implementation procedure (https://dnr.mo.gov/document-search/antidegradation-implementation-procedure).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs which are reasonable and cost effective. The AA evaluation can include practices designed to be: 1) non-degrading; 2) less degrading; or 3) degrading water quality. The glossary of AIP defines these three terms. The chosen BMP will be the most reasonable and effective management strategy while ensuring the highest statutory and regulatory requirements are achieved and the highest quality water attainable for the facility is discharged. The AA evaluation must demonstrate why "no exposure" is not a feasible alternative at the facility. This structured analysis of BMPs serves as the antidegradation review, fulfilling the requirements of 10 CSR 20-7.031(3) Water Quality Standards and *Antidegradation Implementation Procedure* (AIP), §II.B.

If parameter-specific numeric benchmark exceedances continue to occur and the facility feels there are no practicable or cost-effective BMPs which will sufficiently reduce a pollutant concentration in the discharge to the benchmark values established in the permit, the facility can submit a request to re-evaluate the benchmark values. This request needs to include 1) a detailed explanation of why the facility is unable to comply with the permit conditions and unable to establish BMPs to achieve the benchmark values; 2) financial data of the company and documentation of cost associated with BMPs for review and 3) the SWPPP, which must contain adequate documentation of BMPs employed, failed BMPs, corrective actions, and all other required information. This will allow the Department to conduct a cost analysis on control measures and actions taken by the facility to determine cost-effectiveness of BMPs. The request shall be submitted in the form of an operating permit modification, which includes an appropriate fee; the application is found at: https://dnr.mo.gov/water/business-industry-other-entities/permits-certification-engineering-fees/wastewater

✓ Applicable; a SWPPP shall be developed and implemented for this facility; see specific requirements in the SPECIAL CONDITIONS section of the permit.

SUFFICIENTLY SENSITIVE ANALYTICAL METHODS

Please review Standard Conditions Part 1, §A, No. 4. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 or 40 CFR 136 unless alternates are approved by the Department and incorporated within this permit. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure the selected methods are able to quantify the presence of pollutants in any given discharge at concentrations low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. The reporting limits established by the chosen laboratory must be below the lowest effluent limits established for the specified parameter (including any parameter's future limit after an SOC) in the permit unless the permit provides for an ML or if the facility provides a written rationale to the Department. It is the facility's responsibility to ensure the laboratory has adequate equipment and controls in place to quantify the pollutant. Inflated reporting limits will not be accepted by the Department if the reporting limit is above the parameter value stipulated in the permit. A method is "sufficiently sensitive" when; 1) the method quantifies the pollutant below the level of the applicable water quality criterion or; 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015 and or 40 CFR 136. These methods are also required for parameters listed as monitoring only, as the data collected may be used to determine if numeric limitations need to be established. A facility is responsible for working with their contractors to ensure the analysis performed is sufficiently sensitive.

UNDERGROUND INJECTION CONTROL (UIC)

The UIC program for all classes of wells in the State of Missouri is administered by the Missouri Department of Natural Resources and approved by EPA pursuant to §§1422 and 1425 of the Safe Drinking Water Act (SDWA) and 40 CFR 147 Subpart AA. Injection wells are classified based on the liquids which are being injected. Class I wells are hazardous waste wells which are banned by 577.155 RSMo; Class II wells are established for oil and natural gas production; Class III wells are used to inject fluids to extract minerals; Class IV wells are also banned by Missouri in 577.155 RSMo; Class V wells are shallow injection wells; some examples are heat pump wells and groundwater remediation wells. Domestic wastewater being disposed of sub-surface is also considered a Class V well. In accordance with 40 CFR 144.82, construction, operation, maintenance, conversion, plugging, or closure of injection wells shall not cause movement of fluids containing any contaminant into Underground Sources of Drinking Water (USDW) if the presence of any contaminant may cause a violation of any drinking water standards or groundwater standards under 10 CSR 20-7.031, or other health based standards, or may otherwise adversely affect human health. If the director finds the injection activity may endanger USDWs, the Department may require closure of the injection wells, or other actions listed in 40 CFR 144.12(c), (d), or (e). In accordance with 40 CFR 144.26, the facility shall submit a Class V Well Inventory Form for each active or new underground injection well drilled, or when the status of a well changes, to the Missouri Department of Natural Resources, Geological Survey Program, P.O. Box 250, Rolla, Missouri 65402. The Class V Well Inventory Form can be requested from the Geological Survey Program or can be found at the following web address: https://dnr.mo.gov/document-search/class-v-well-inventory-form-mo-780-1774 Single family residential septic systems and non-residential septic systems used solely for sanitary waste and having the capacity to serve fewer than 20 persons a day are excluded from the UIC requirements (40 CFR 144.81(9)). The Department implements additional requirements for these types of operations pursuant to 10 CSR 20-6.015(4)(A)1 which instructs the Department to develop permit conditions containing limitations, monitoring, reporting, and other requirements to protect soils, crops, surface waters, groundwater, public health, and the environment.

✓ Not applicable; the facility has not submitted materials indicating the facility is or will be performing UIC at this site.

VARIANCE

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 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. Thermal variances are regulated separately and are found under 644.

✓ Not applicable; this permit is not drafted under premise of a petition for variance.

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS

As per [10 CSR 20-2.010; definitions], the WLA is the maximum amount of pollutant each discharger is allowed to discharge into the receiving stream without endangering water quality. Only streams with available load allocations can be granted discharge allowances. Outfalls afforded mixing allocations provide higher limits because the receiving stream is able to accept more pollutant loading without causing adverse impacts to the environment or aquatic life.

✓ Not applicable, this is a stormwater only permit therefore WLAs were not calculated. See section on stormwater permitting as applying WLAs to stormwater is not normally applicable per TSD §3.1.

WASTELOAD ALLOCATION (WLA) MODELING

Facilities may submit site specific studies to better determine the site specific wasteload allocations applied in permits.

✓ Not applicable; a WLA study was either not submitted or determined not applicable by Department staff.

WATER QUALITY STANDARD REVISION

In accordance with 644.058 RSMo, the Department is required to utilize an evaluation of the environmental and economic impacts of modifications to water quality standards of twenty-five percent or more when making individual site-specific permit decisions.

✓ This operating permit does not contain requirements for a water quality standard changing twenty-five percent or more since the previous operating permit.

WHOLE EFFLUENT TOXICITY (WET) TEST

A WET test is a quantifiable method to conclusively determine if discharges from the facility cause toxicity to aquatic life by itself, in combination with, or through synergistic responses, typically when mixed with receiving stream water. Under the CWA §101(a)(3), requiring WET testing is reasonably appropriate for Missouri State Operating Permits to quantify toxicity. WET testing is also required by 40 CFR 122.44(d)(1) when RP is found. WET testing ensures the provisions in 10 CSR 20-6 and Missouri's Water Quality Standards in 10 CSR 20-7 are being met; the acute WOS for WET is 0.3 TUa. Under 10 CSR 20-6.010(8)(A)4, the Department may require other terms and conditions it deems necessary to ensure compliance with the CWA and related regulations of the Missouri Clean Water Commission. Missouri Clean Water Law (MCWL) RSMo 644.051.3 requires the Department to set permit conditions complying with the MCWL and CWA. 644.051.4 RSMo specifically references toxicity as an item the Department must consider in permits (along with water quality-based effluent limits); and RSMo 644.051.5 is the basic authority to require testing conditions. Requirements found in the federal application requirements for POTWs (40 CFR 122.21(j)(5)) do not apply to industrial facilities, therefore WET testing can be implemented on a case by case basis following the factors outlined below. Annual testing is the minimum testing frequency if reasonable potential is found; monitoring requirements promulgated in 40 CFR 122.44(i)(2) state "requirements to report monitoring results shall be established on a case-by-case basis with a frequency dependent on the nature and effect of the discharge, but in no case less than once per year." To determine reasonable potential, factors considered are: 1) history of toxicity; 2) quantity and quality of substances (either limited or not) in the permit with aquatic life protections assigned; and 3) operational controls on toxic pollutants. See Part III under REASONABLE POTENTIAL for additional information. A facility does not have to be designated as a major facility to receive WET testing; and being a major facility does not automatically require WET testing. Additionally per 40 CFR 122.44(d)(1)(v), limits on whole effluent toxicity are not necessary where the permitting authority demonstrates in the fact sheet, using the procedures in 40 CFR 122.44(d)(1)(ii) of this section, that chemical-specific limits or specified operational controls are sufficient to attain and maintain applicable numeric and narrative water quality standards.

If WET limits are applied to this facility, follow up testing applies. When a facility exceeds the TU established in the permit, three additional follow-up tests are triggered. The follow up test results do not negate the initial testing result. If the facility is within the prescribed TU limit for all three follow up tests, then no further testing is required until the next regularly scheduled tests. If one or more additional tests exceed the TU limit, the facility may consider beginning the Toxicity Identification Evaluation (TIE) and Toxicity Identification Reduction (TRE) processes instead of waiting for three consecutive TU exceedances. The TIE and TRE process can take up to two years, especially when toxicity is variable or transient. We urge facilities to work closely with their WET testing laboratory to follow nationwide guidance for determining causes of toxicity and curative activities to remove toxicity. Additional wastewater controls may be necessary; and while, generally, no Construction Permit (CP) is required for adding treatment at industrial facilities, the facility may check with the Engineering Section to determine a plan of action.

If WET testing failures are from a known toxic parameter, and the facility is working with the Department to alleviate that pollutant's toxicity in the discharge, please contact the Department prior to conducting follow-up WET testing. Under certain conditions, follow-up testing may be waived when the facility is already working to reduce and eliminate toxicity in the effluent.

✓ Applicable; WET testing is found in this permit. See additional information regarding the decision points for WET testing in Part IV of the fact sheet.

PART IV. EFFLUENT LIMIT DETERMINATIONS

OUTFALL #001 - STORMWATER OUTFALL

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	DAILY MAXIMUM LIMIT	BENCH- MARK	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	-	SAME	ONCE/QUARTER	QUARTERLY	24 HR. ESTIMATE
CONVENTIONAL							
COD	mg/L	**	90	SAME	ONCE/QUARTER	QUARTERLY	GRAB
OIL & GREASE	mg/L	**	10	SAME	ONCE/QUARTER	QUARTERLY	GRAB
pH [†]	SU	6.5-9.0	-	SAME	ONCE/QUARTER	QUARTERLY	GRAB
SETTLEABLE SOLIDS	mL/L/hr	**	1.5	SAME	ONCE/QUARTER	QUARTERLY	GRAB
TSS	mg/L	**	100	80/-	ONCE/QUARTER	QUARTERLY	GRAB
METALS							
ALUMINUM, TR	μg/L	**	1100	**/750	ONCE/QUARTER	ONCE/QUARTER	GRAB
ARSENIC, TR	REMOVED						
BERYLLIUM, TR	REMOVED						
Boron, TR	REMOVED						
CHROMIUM (VI), DISSOLVED				RE	MOVED		
COPPER, TR	μg/L	**	28	SAME	ME ONCE/QUARTER ONCE/QUARTER C		GRAB
IRON, TR	μg/L	**	4000	4000/-	ONCE/QUARTER	ONCE/QUARTER	GRAB
MANGANESE, TR				RE	MOVED		
SELENIUM, TR	μg/L	*	-	**/8.2	ONCE/QUARTER	ONCE/QUARTER	GRAB
SILVER, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
THALLIUM, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
Nutrients							
Ammonia as N	mg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
PHOSPHORUS, TOTAL (TP)	REMOVED						
OTHER							
BENZENE	μg/L	*	-	SAME	ONCE/QUARTER	QUARTERLY	GRAB
Chloride	mg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
Chloride + Sulfate	mg/L	1000	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
SULFATE	mg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB

- monitoring and reporting requirement only
- ** monitoring with associated benchmark
- † report the minimum and maximum pH values; pH is not to be averaged
- TR total recoverable

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow

In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to ensure compliance with permitted effluent limitations. If the facility is unable to obtain effluent flow, then it is the responsibility of the facility to inform the Department, which may require the submittal of an operating permit modification. The facility will report the total flow in millions of gallons per day (MGD), quarterly monitoring continued from previous permit.

Precipitation

Parameter removed. Refer to Antibacksliding in Part III.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Monitoring with 90 mg/L daily maximum benchmark is continued from the previous permit using best professional judgment under 10 CSR 20-6.200(6)(B)2.C. There is no numeric water quality standard for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the facility to identify increases in COD may indicate materials/chemicals coming into contact with stormwater causing an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs. The facility reported from 23 to 33 mg/L in the last permit term. The benchmark value falls within the range of values implemented in other permits having similar industrial activities and is achievable through proper BMP controls.

Oil & Grease

Monitoring with a daily maximum benchmark of 10 mg/L; continued from the previous permit using best professional judgment under 10 CSR 20-6.200(6)(B)2.C. The facility reported from 5.4 to 5.5 mg/L in the last permit. Oil and grease is considered a conventional pollutant. Oil and grease is a comprehensive test which measures for gasoline, diesel, crude oil, creosote, kerosene, heating oils, heavy fuel oils, lubricating oils, waxes, and some asphalt and pitch. The test can also detect some volatile organics such as benzene, toluene, ethylbenzene, or xylene, but these constituents are often lost during testing due to their boiling points. It is recommended to perform separate testing for these constituents if they are a known pollutant of concern at the site, i.e. aquatic life toxicity or human health is a concern. Results do not allow for separation of specific pollutants within the test, they are reported, totaled, as "oil and grease". Per 10 CSR 20-7.031 Table A1: *Criteria for Designated Uses*; 10 mg/L is the standard for protection of aquatic life. This standard will also be used to protect the general criteria found at 10 CSR 20-7.031(4). Ten mg/L is the level at which sheen is expected to form on receiving waters. Oils and greases of different densities will possibly form sheen or unsightly bottom deposits at levels which vary from 10 mg/L. To protect the general criteria, it is the responsibility of the facility to visually observe the discharge and receiving waters for sheen or bottom deposits. The benchmark is achievable through proper operational and maintenance of BMPs and falls within the range of values implemented in other permits having similar industrial activities. The benchmark this permit applies does not allow the facility to violate general criteria 10 CSR 20-7.015(4) even if data provided are below the benchmark.

pН

6.5 to 9.0 SU – instantaneous grab sample. Water quality limits [10 CSR 20-7.031(5)(E)] are applicable to this outfall. pH is a fundamental water quality indicator. Additionally, metals leachability and ammonia availability in wastewater is dependent on pH. Limitations in this permit will protect against aquatic organism toxicity, downstream water quality issues, human health hazard contact, and negative physical changes in accordance with the general criteria at 10 CSR 20-7.031(4) and the Clean Water Act's (CWA) goal of 100% fishable and swimmable rivers and streams.

Settleable Solids (SS)

Monitoring with a daily maximum benchmark of 1.5 mL/L/hour. There is no numeric water quality standard for SS; however, sediment discharges can negatively impact aquatic life habitat. Settleable solids are also a valuable indicator parameter. Solids monitoring allows the facility to identify increases in sediment and solids may indicate uncontrolled materials leaving the site. The benchmark value falls within the range of values implemented in other permits having similar industrial activities.

Total Suspended Solids (TSS)

Monitoring with a daily maximum benchmark of 100 mg/L. There is no numeric water quality standard for TSS; however, sediment discharges can negatively impact aquatic life habitat. TSS is also a valuable indicator parameter. TSS monitoring allows the facility to identify increases in TSS indicating uncontrolled materials leaving the site. Increased suspended solids in runoff can lead to decreased available oxygen for aquatic life and an increase of surface water temperatures in a receiving stream. Suspended solids can also be carriers of toxins, which can adsorb to the suspended particles; therefore, total suspended solids are a valuable indicator parameter for other pollution. The facility reported from 24 to 28 mg/L in the last permit term. The benchmark is achievable through proper operational and maintenance of BMPs and falls within the range of values implemented in other permits having similar industrial activities.

METALS:

Aluminum, Total Recoverable

Monitoring with a daily maximum benchmark of $1100 \,\mu g/L$. Previous permit required monitoring only with a daily maximum benchmark of $750 \,\mu g/L$. The benchmark is increased in this permit cycle to reflect the changes to the recently issued federal EPA MSGP, which the Department may use for guidance when selecting some benchmark values. The facility reported between 740 and $850 \,\mu g/L$ in the last permit term.

Arsenic, Total Recoverable

Removed from this permit. The permittee reported this pollutant "believed absent" on the application materials received 01/31/2022. In addition, DMR data showed non-detect values. This is not a pollutant of concern at this facility, and is therefore, removed from monitoring.

Beryllium, Total Recoverable

Removed from this permit. The permittee reported this pollutant "believed absent" on the application materials received 01/31/2022. In addition, DMR data showed values well below the water quality standards found in 10 CSR 20-7.031 Table A. This is not a pollutant of concern at this facility, and is therefore, removed from monitoring.

Boron, Total Recoverable

Removed from this permit. The permittee reported this pollutant "believed absent" on the application materials received 01/31/2022. In addition, DMR data showed non-detect values and there are no water quality standards for boron for aquatic life or human health protection. This is not a pollutant of concern at this facility, and is therefore, removed from monitoring.

Chromium (VI), Dissolved

Removed from this permit. The permittee reported this pollutant "believed absent" on the application materials received 01/31/2022. In addition, DMR data showed non-detect values. This is not a pollutant of concern at this facility, and is therefore, removed from monitoring.

Copper, Total Recoverable

Monitoring with a daily maximum benchmark of $28 \mu g/L$. Copper has numerous industrial uses, from alloys and antimicrobial applications, to wires, cable and paints. It is used as a stabilizing agent in chemical products. Previous permit required monitoring only with a daily maximum benchmark of $22 \mu g/L$. The facility reported non-detect values of $< 30 \mu g/L$ in the last permit term. This non-detect value is above the benchmark value (See Part V: Sampling and Reporting Requirements: Sufficiently Sensitive Analytical Methods for more information).

Iron, Total Recoverable

Monitoring with a technology based daily maximum benchmark of $4,000 \,\mu\text{g/L}$. Iron has numerous industrial uses, being the most widely used of all metals. There is a high potential for iron to be found in wastes at a landfill. Previous permit required monitoring with a daily maximum benchmark of $1,000 \,\mu\text{g/L}$. Due to the sporadic nature of stormwater discharges, the Department, under the direction of EPA guidance, has determined chronic standards are capricious measures of stormwater discharges. Chronic effluent limitations are based on the organism's ability to survive within the designated concentration for four days. Stormwater is rarely discharged continuously for four days. Conversely, acute water quality standards are applicable, but are non-existent for iron. It is in the best professional judgment of the permit writer that a discharge from these outfalls at $4,000 \,\mu\text{g/L}$ per storm event will not cause an exceedance of the chronic water quality standard of $1000 \,\mu\text{g/L}$ over four days. After reviewing other sources of data and studies, it is in the permit writer's best professional judgment to require a $4000 \,\mu\text{g/L}$ daily maximum benchmark for this facility. In accordance with the Department's current stormwater permitting, under the direction of EPA guidance, it is the permit writer's best professional judgment that an iron limit of $4000 \,\mu\text{g/L}$ is protective of water quality at this facility.

Manganese, Total Recoverable

Removed from this permit. The permittee reported this pollutant "believed absent" on the application materials received 01/31/2022. In addition, DMR data showed values ranging from 18 to 19 μ g/L. There are no water quality standards for manganese for aquatic life or human health protection. This is not a pollutant of concern at this facility, and is therefore, removed from monitoring.

Selenium, Total Recoverable

Monitoring only. Previous permit required a daily maximum benchmark of $8.2 \mu g/L$. The facility reported non-detect values of $< 30 \mu g/L$ in the last permit term. The non-detect values were well above the benchmark value (See Part V: Sampling and Reporting Requirements: Sufficiently Sensitive Analytical Methods for more information).

Silver, Total Recoverable

Monitoring only, continued from the previous permit. DMR data at this site shows non-detects at $10 \,\mu\text{g/L}$. Because the water quality standard for protection of aquatic life found in $10 \, \text{CSR} \, 20\text{-}7.031 \, \text{Table A}$ is $13 \, \mu\text{g/L}$, reasonable potential for exceedance of this water quality standard was not able to be determined. The true levels of silver are unknown in the effluent; therefore monitoring is continued.

Thallium, Total Recoverable

Monitoring only continued from previous permit. Thallium is primarily used in the production of electronic devices, switches, and closures for the semiconductor industry. It also has limited use in the manufacture of special glass and for certain medical procedures. It is a known pollutant of concern at waste disposal sites. DMR data shows no reasonable potential to cause or contribute to excursions of the water quality standard, therefore monitoring only is continued.

NUTRIENTS:

Ammonia, Total as Nitrogen

Monitoring only continued from previous permit. Ammonia is a primary component of leachate, and is listed in the landfill ELG found at 40 CFR 445. DMR data shows no reasonable potential to cause or contribute to excursions of the water quality standard.

Phosphorus, Total P (TP)

Removed from this permit. The permittee reported this pollutant "believed absent" on the application materials received 01/31/2022. There are no water quality standards for manganese for aquatic life or human health protection. This is not a pollutant of concern at this facility, and is therefore, removed from monitoring.

OTHER:

Benzene

Monitoring only, continued from the previous permit per the best professional judgment of the permit writer. Benzene is a volatile organic compound and a common component of many fuel and oil products. It is used as an intermediate in the production of numerous other chemicals, especially phenols and acetones. Benzene is a reliable indicator pollutant for hydrocarbon pollutants in the volatile fraction, such as ethylbenzene, toluene, and xylene. Continuing monitoring for this pollutant will aid in indication of other hydrocarbon issues at the site.

Chloride

Monitoring only, continued from the previous permit. DMR data at this site ranges from 7.7 mg/L up to 33 mg/L. The acute water quality standard is 860 mg/L. DMR data shows that it is a pollutant of concern.

Sulfate

Monitoring required to determine chloride plus sulfate below. The facility shall sample and independently report the analytical value of sulfate. The facility reported from 8.5 to 41 mg/Lin the last permit term.

Chloride + Sulfate

1000 mg/L daily maximum limit, continued from the previous permit. DMR data at this site ranges from 16.2 mg/L up to 78 mg/L. The acute water quality standard is 1000 mg/L. DMR data shows that it is a pollutant of concern. The permit writer uses best professional judgment to continue the limits on this parameter, as the data shows reasonable potential for exceedances, as evidenced by the high variation in the reported values.

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

Permits are normally issued on a five-year term, but to achieve watershed synchronization some permits will need to be issued for less than the full five years as allowed by regulation. The intent is 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 the Department to explore a watershed based permitting effort at some point in the future.

✓ Industrial permits are not being synchronized.

PUBLIC NOTICE

The Department shall give public notice 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 or with 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 facility must be notified of the denial in writing. https://dnr.mo.gov/water/what-were-doing/public-notices
The Department must issue public notice of a pending operating 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 wishing to submit comments regarding this proposed operating permit, 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. All comments must be in written form.

✓ The Public Notice period for this operating permit started June 3, 2022 and ended July 5, 2022. No comments were received.

DATE OF FACT SHEET: MAY 5, 2022

COMPLETED BY:

KYLE O'ROURKE, ENVIRONMENTAL SCIENTIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - INDUSTRIAL UNIT (573) 526-1289 Kyle.O'Rourke@dnr.mo.gov



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED AUGUST 1, 2014

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions Section A – Sampling, Monitoring, and Recording

1. Sampling Requirements.

- Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
- b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.

2. Monitoring Requirements.

- a. Records of monitoring information shall include:
 - 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. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
- Sample and Monitoring Calculations. Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
- Test Procedures. The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
- 5. Record Retention. Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the 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.

Illegal Activities.

- a. 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 the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
- b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. Planned Changes.

- a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
 - iii. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
- iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.

2. Non-compliance Reporting.

a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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THE MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI CLEAN WATER COMMISSION REVISED AUGUST 1, 2014

- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
- c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
- Anticipated Noncompliance. The permittee shall give advance notice to the
 Department of any planned changes in the permitted facility or activity
 which may result in noncompliance with permit requirements. The notice
 shall be submitted to the Department 60 days prior to such changes or
 activity.
- 4. Compliance Schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
- 5. Other Noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
- 6. Other Information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

7. Discharge Monitoring Reports.

- a. Monitoring results shall be reported at the intervals specified in the
- b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
- Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.

Section C – Bypass/Upset Requirements

1. **Definitions.**

- a. Bypass: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
- Severe Property Damage: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
- c. Upset: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2. Bypass Requirements.

a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

b. Notice.

- Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
- ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).

c. Prohibition of bypass.

- i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 - Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - The permittee submitted notices as required under paragraph 2.
 b. of this section.
- ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. Upset Requirements.

- a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D – Administrative Requirements

- Duty to Comply. The permittee must comply with all conditions of this
 permit. Any permit noncompliance constitutes a violation of the Missouri
 Clean Water Law and Federal Clean Water Act and is grounds for
 enforcement action; for permit termination, revocation and reissuance, or
 modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement



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imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.

- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class II penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
- It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

2. Duty to Reapply.

- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission

- for applications to be submitted later than the expiration date of the existing permit.)
- c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- Need to Halt or Reduce Activity Not a Defense. It shall not be a defense
 for a permittee in an enforcement action that it would have been necessary to
 halt or reduce the permitted activity in order to maintain compliance with the
 conditions of this permit.
- Duty to Mitigate. The permittee shall take all reasonable steps to minimize
 or prevent any discharge or sludge use or disposal in violation of this permit
 which has a reasonable likelihood of adversely affecting human health or the
 environment.
- 5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

6. Permit Actions.

- 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. Violations of any terms or conditions of this permit or the law;
 - Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - 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 or 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.

7. Permit Transfer.

- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
- c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
- 8. Toxic Pollutants. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
- Property Rights. This permit does not convey any property rights of any sort, or any exclusive privilege.



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- 10. Duty to Provide Information. The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
- 11. Inspection and Entry. The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
 - Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.

12. Closure of Treatment Facilities.

- a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
- b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.

13. Signatory Requirement.

- All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
- b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance 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 by both.
- c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
- 14. Severability. The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

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MO 780-1479 (04-21)

MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
FORM A – APPLICATION FOR NONDOMESTIC PERMIT UNDER MISSOURI
CLEAN WATER LAW

38276

FOR AGENCY USE ONLY

CHECK NUMBER

DATE RECEIVED	FEE SUMMITTED
JET PAY CONFIRMATION	NUMBEŘ

PLEASE READ ALL THE ACCOMPANYING INSTRUCTION SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RE			NED.			
IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE E						
Fill out the No Exposure Certification Form (Mo 780-2828): h	ttps://dnr.mo.gov/forms/780-2828-f.p	<u>odf</u>				
1. REASON FOR APPLICATION:						
application for renewal, and there is <u>no</u> proposed in	This facility is now in operation under Missouri State Operating Permit (permit) MO – 0112721, is submitting an application for renewal, and there is no proposed increase in design wastewater flow. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.					
proposed increase in design wastewater flow. Antide	This facility is now in operation under permit MO –, is submitting an application for renewal, and there <u>is</u> a proposed increase in design wastewater flow. Antidegradation Review may be required. Annual fees will be paid when invoiced and there is no additional permit fee required for renewal.					
☐ c. This is a facility submitting an application for a new permit fee is required.	permit (for a new facility). Antidegrad	lation Revie	ew may	be required. New		
d. This facility is now in operation under Missouri State modification to the permit. Antidegradation Review r			and is re	questing a		
2. FACILITY						
NAME		1		WITH AREA CODE		
Hannibal Sanitary Landfill ADDRESS (PHYSICAL)	CITY	573-221-		P CODE		
2/3 mile south of Big Creek Lane/Kiowa Dr. Intersection	Hannibal	MO		3401		
3. OWNER						
NAME		TELEPHON	E NUMBER	WITH AREA CODE		
City of Hannibal						
EMAIL ADDRESS						
adorian@hannibal-mo.gov						
ADDRESS (MAILING) 320 Broadway	сіту Hannibal	MO STATE	1	P CODE 3401		
	i iaiiiibai	TIVIO	00	7401		
4. CONTINUING AUTHORITY NAME		TELEPHON	E NI IMBER	WITH AREA CODE		
City of Hannibal		573-221-		WITH AREA GODE		
EMAIL ADDRESS adorian@hannibal-mo.gov						
ADDRESS (MAILING)	CITY	STATE		P CODE		
320 Broadway	Hannibal	МО	00	3401		
5. OPERATOR CERTIFICATION NAME	CERTIFICATE NUMBER	TELEBHON	ENHMEE	WITH AREA CODE		
Same	CERTIFICATE NOWIBER	573-221-		WITTAKEA GODE		
ADDRESS (MAILING)	CITY	STATE		P CODE		
320 Broadway	Hannibal	МО	63	3401		
6. FACILITY CONTACT						
NAME Andy Dorian	TITLE TELEPHONE NUMBER WITH AREA CODE prian Director of Central Services 573-221-0111					
E-MAIL ADDRESS	Director of Central Services	5/3-22	1-0111			
adorian@hannibal-mo.gov						
7. DOWNSTREAM LANDOWNER(S) Attach additional shee	ts as necessary.					
NAME	en i se per començar a consequencia. 🗸 con a come a trata de la Cita di propria de Cita de Cita de Cita de Cita.	and the state of t	again and the temples	en e		
See attached		,				
ADDRESS	CITY		STATE	ZIP CODE		

RECEIVED

JAN 3 1 2022

Water Protection Program

8. ADD	ITIONAL FACILITY INFORMATION				
8.1	Legal Description of Outfalls. (Attach a For Universal Transverse Mercator (UTM), use 2				IAD83)
	001 <u>SE ¼</u> <u>SE ¼</u>	Sec <u>12</u>	T <u>56N</u>	R <u>6W</u>	Ralls County
	UTM Coordinates Easting (X):	_ Northing	(Y):	-	
	002 SW 1/4 NE 1/4	Sec <u>7</u>	T 56N	R <u>5W</u>	Ralls_ County
	002 SW 1/4 NE 1/4 UTM Coordinates Easting (X):	Northing	(Y):	-	
	003 1/4 1/4	Sec	Т	R	County
	0031/ ₄ 1/ ₄ UTM Coordinates Easting (X):	Northing	(Y):	- · · · · · · · · · · · · · · · · · · ·	ocamy
					County
	0041/ ₄ 1/ ₄ UTM Coordinates Easting (X):	Sec Northing	(Y):	R	County
			(-/-	-	
Include	all subsurface discharges and underground	injection systems	s for permit cons	ideration.	
	Primary Standard Industrial Classification (SI				on System (NAICS) Codes
0.2	Primary SIC <u>4953</u> and NAICS _		SIC <u>4953</u>	and NAIC	S
	Primary SIC 4953 and NAICS and NAICS and NAICS				S
9. ADD	ITIONAL FORMS AND MAPS NECESSARY	Y TO COMPLET	E THIS APPLICA	ATION	
Α.	Is this permit for a manufacturing, commerced fyes, complete Form C.	cial, mining, solic	d/hazardous was	te, or silviculture fac	ility? YES 🔲 NO 🗹
В.	Is the facility considered a "Primary Industry If yes, complete Forms C and D.	y" under EPA gu	idelines (40 CFF	R Part 122, Appendix	(A): YES 🗹 NO 🗌
C.	Is wastewater land applied? If yes, complete Form I.				YES 🔲 NO 🗹
D.	Are sludge, biosolids, ash, or residuals gen If yes, complete Form R.	nerated, treated,	stored, or land a	pplied?	YES 🔲 NO 🗹
Ε.	Have you received or applied for any permi environmental regulatory authority? If yes, please include a list of all permits or Environmental Permits for this facility:	approvals for th	is facility:	the CWA or any othe	er YES 🔲 NO 🗹
F.	Do you use cooling water in your operations If yes, please indicate the source of the wat				YES NO 🗹
G.	Attach a map showing all outfalls and the re	eceiving stream	at 1" = 2,000' sca	ale.	
10. ELE	ECTRONIC DISCHARGE MONITORING RE	PORT (eDMR) S	SUBMISSION SY	STEM	
and mo	CFR Part 127 National Pollutant Discharge E nitoring shall be submitted by the permittee v ent set of data. One of the following must b os://dnr.mo.gov/env/wpp/edmr.htmfor informa	via an electronic oe checked in o	system to ensure rder for this app	e timely, complete, a plication to be cons	ccurate, and nationally sidered complete. Please
☐ - I will register an account online to participate in the Department's eDMR system through the Missouri Gateway for Environmental Management (MoGEM) before any reporting is due, in compliance with the Electronic Reporting Rule.					
☑ - I have already registered an account online to participate in the Department's eDMR system through MoGEM.					
☐ - I have submitted a written request for a waiver from electronic reporting. See instructions for further information regarding waivers.					
☐ - Th	e permit I am applying for does not require th	ne submission of	discharge monite	oring reports.	

11. FEES

Permit fees may be paid by attaching a check, or online by credit card or eCheck through the JetPay system. Use the URL provided to access JetPay and make an online payment:

For new permits: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591

For modifications: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/596

12. CERTIFICATION

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

NAME AND OFFICIAL TITLE (TYPE OR PRINT)

6ENUNES 573-221-0111

AMONEU DONIAN DIARCTON OF CENTRAL GENUTIES

ENATURE SALE

DATE SIGNED

TELEPHONE NUMBER WITH AREA CODE

MO 780-1479 (04-21)

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

INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT

Check which option is applicable. Do not check more than one item. Nondomestic permit refers to permits issued by the
Department of Natural Resources' Water Protection Program for all nondomestic wastewater treatment facilities, including all
industry, stormwater, and Class IA Concentrated Animal Feeding Operations (CAFO). This includes all nondomestic
wastewater treatment facilities that incorporate domestic wastewater into the operating permit.

For some new or modified permits, a construction permit is required prior to beginning construction at the facility. For other permits, an exemption is provided from construction permit requirements. Please review the requirements at http://dnr.mo.gov/env/wpp/permits/ww-construction-permitting.htm. If the facility is for wastewater treatment and is designed for greater than 22,500 gallons per day, the engineering report must be submitted and approved prior to submittal of the application, fee, plans, and specifications. A summary of design data must be submitted with the engineering plans and specifications.

For new wastewater facilities, some wastewater permit modifications, and some permit renewals with proposed increase in design wastewater flow, an antidegradation review may be required. Please visit https://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm for more information

- 2. Facility Provide the name by which this facility is known locally. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Also include the street address or location of the facility. If the facility lacks a street name or route number, give the names of the closest intersection, highway, county road, etc.
- 3. Owner Provide the legal name and address of owner or company.
- 4. Continuing Authority A continuing authority is a company, business, entity, or person(s) operating the facility and/or ensuring compliance with the permit requirements. A continuing authority is not, however, an entity or individual that is contractually hired by the permittee to sample or operate and maintain the system for a defined time period, such as a certified operator or analytical laboratory. To access the regulatory requirement regarding continuing authority, 10 CSR 20-6.010(2), please visit https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf. A continuing authority's name must be listed exactly as it appears on the Missouri Secretary of State's (SoS's) webpage:

 https://bsd.sos.mo.gov/BusinessEntity/BESearch.aspx?SearchType=0, unless the continuing authority is an individual(s), government, or otherwise not required to register with the SoS.
- Operator Provide the name, certificate number, mailing address and telephone number of the person operating the facility, if required by regulation (10 CSR 20-9.020(2)). Most industrial facilities will not be required to have a certified wastewater operator.
- 6. Provide the name, title, and work telephone number of a person who is thoroughly familiar with the operation of the facility, with the facts reported in this application, and who can be contacted by the department, if necessary. This person will need to be available to respond to emails which will include pre-public notice drafts of permits.
- 7. Please provide the name and address of the first downstream landowner, different from that of the permitted facility, through whose property the discharge will flow. Also, please indicate the location on the map. For discharges that leave the permitted facility and flow under a road or highway, or along the right-of-way, the downstream property owner is the landowner that the discharge flows to after leaving the right-of-way. For no discharge facilities, provide this information for the location where discharge would flow if there was one. For land application sites, include the owners of the land application sites and all adjacent landowners.
- An outfall is the point at which wastewater or stormwater is discharged. Outfalls should be given in terms of the legal description of the facility. Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers a GPS receiver is used at the outfall pipe and the displayed coordinates submitted. If access to a GPS receiver is not available, please use a mapping system to approximate the coordinates. This section also needs to include any subsurface discharges, discharges to groundwater, sinkholes or subsurface seepage from storage basins. This section also needs to include underground injection into wells, conduits to groundwater and shallow subsurface dispersal fields (leach fields).
- 8.2 List only your primary Standard Industrial Classification (SIC), and North American Industry Classification System (NAICS) code for each outfall. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. To find the correct SIC code, an applicant may check his or her unemployment insurance forms or contact the Missouri Division of Employment Security, 573-751-3215. The primary SIC code is that of the operation that generates the most revenue. If this information is not available, the number of employees or, secondly, production rate may be used to determine your SIC code. Additional information for Standard Industrial Codes can be found at www.osha.gov/pls/imis/sicsearch.html and for the North American Industry Classification System at www.census.gov/naics or contact the appropriate Department of Natural Resources regional office.

INSTRUCTIONS FOR COMPLETING FORM A - APPLICATION FOR NONDOMESTIC PERMIT (CONTINUED)

- 9. If you answer yes to A, B, C, D, or E, then you must complete and file the supplementary form(s) indicated. 40 CFR 122.21(f) and (g) requires the facility to submit the information requested herein. For 9.E., please include all permits or approvals, including construction, issued under the Hazardous Waste Management Program (RCRA), the Safe Drinking Water Act, Clean Air Act, or any other permits issued under the Clean Water Act.
 - A U.S. Geological Survey 1" = 2,000' scale map must be submitted with the permit application showing all outfalls, the receiving stream and the location of the downstream property owners. This type of map can be obtained from the Missouri Department of Natural Resources' Geological Survey in Rolla at 573-368-2100 or various online mapping applications.
- 10. Electronic Discharge Monitoring Report (eDMR) Submission System Visit the eDMR site at http://dnr.mo.gov/env/wpp/edmr.htm and click on the "Facility Participation Package" link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package.

Waivers from electronic reporting may be granted by the Department per 40 CFR 127.15 under certain, special circumstances. A written request must be submitted to the Department for approval. Waivers may be granted to facilities owned or operated by:

- A. Members of religious communities that choose not to use certain technologies.
- B. Permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: http://www.broadbandmap.gov/. Please contact the department if you need assistance.
- 11. Please visit https://dnr.mo.gov/pubs/pub2564.htm for permit fees. This form must be submitted with the application fee if requesting a new permit, permit modification or permit transfer.

Fee schedules are listed in regulation at 10 CSR 20-6.011, https://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf.

Incomplete permit applications and/or related engineering documents will be returned by the department if they are not completed in the time frame established in a comment letter from the department to the owner. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.

- 12. Certification/Signature All applications must be signed as follows and the signature must be original:
 - A. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
 - B. For a partnership or sole proprietorship, by a general partner or the proprietor.
 - C. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

Send completed form and fees (if not submitted electronically) to::

cleanwaterpermits@dnr.mo.gov or Missouri Department Of Natural Resources Water Protection Program Water Pollution Control Branch ATTN: Operating Permits Section P.O. BOX 176

JEFFERSON CITY, MO 65102-0176

If there are any questions concerning this form, contact the Department of Natural Resources' Water Protection Program, Operating Permits Section at 800-361-4827 or 573-522-4502.



MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

FORM C – APPLICATION FOR DISCHARGE PERMIT – MANUFACTURING, COMMERCIAL, MINING, SILVICULTURE OPERATIONS, AND STORMWATER

,	 ,	

1.0 NAME OF FACILITY

Hannibal Sanitary Landfill

1.1 THIS FACILITY IS OPERATING UNDER MISSOURI STATE OPERATING PERMIT (MSOP) NUMBER:

GENERAL INFORMATION (PLEASE SEE INSTRUCTIONS)

0112721

1.2 IS THIS A NEW FACILITY? PROVIDE CONSTRUCTION PERMIT (CP) NUMBER IF APPLICABLE.

N/A

1.3 Describe the nature of the business, in detail. Identify the goods and services provided by the business. Include descriptions of all raw, intermediate, final products, byproducts, or waste products used in the production or manufacturing process, stored outdoors, loaded or transferred and any other pertinent information for potential sources of wastewater or stormwater discharges. Municipal landfill, closed in the 1990's. The cap is covered in vegetation, rainfall surface drains off of the cap and runs through a vegetated strip filter (VSF) into a collection pond (2 separate ponds - 1 each for outfall 001 and outfall 002) and then is discharged to an unnamed tributary to Big Creek.

FLOWS, TYPE, AND FREQUENCY

- 2.0 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 and maximum flows between intakes, operations, treatment units, evaporation, public sewers, and outfalls. If a water balance cannot by 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.
- 2.1 For each outfall (1) below, provide: (2) a description of all operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, stormwater runoff, and any other process or non-process wastewater, (3) the average flow and maximum flow (put max in parentheses) contributed by each operation and the sum of those operations, (4) the treatment received by the wastewater, and (5) the treatment type code. Continue on additional sheets if necessary.

1. OUTFALL NO.	 OPERATION(S) CONTRIBUTING FLOW; INCLUDE ALL PROCESSES AND SUB PROCESSES AT EACH OUTFALL 	3. AVERAGE FLOW AND (MAXIMUM FLOW), INCLUDE UNITS,	4. TREATMENT DESCRIPTION	5. TREATMENT CODES FROM TABLE A
001	Stormwater	0.005 MGD	Treatment Pond	4-A
002	Stormwater	0.004 MGD	Treatment Pond	4-A

	☐ Yes (complete the	e following table)		No (go to s	section 2.3)				
						4.	FLOW		
1,			3. FRE	QUENCY	A. FLOW RA	ATE (in mgd)	B. TOTAL (specify v		0 000470
OUTFALL NUMBER	2. OPERATION(S) CO	NTRIBUTING FLOW	A. DAYS PER WEEK (specify average)	B, MONTHS PER YEAR (specify average)	1. MAXIMUM DAILY	2. LONG TERM AVERAGE	4. LONG TERM DAILY	3. MAXIMUM AVERAGE	C, DURATION (in days)
2.3 PR	ODUCTION								
A. Does	s an effluent limitatior	յ guideline (ELG) բ	oromulgate	d by EPA u	ınder sectior	304 of the	e Clean Water	Act apply to	your
facility?	Indicate the part and	subparts applicab	le.						
	Yes 40 CFR	Subpart(s)	_	No (go to se	ection 2.5)			
B. Are t	the limitations in the e	effluent quideline(s) expresse	d in terms o	of production	or other	measure of o	peration)? De	escribe in C
below.		maoni galaomio(o) oxp. 0000		or production	. (0) 04110.			
	Yes (complete C.)	☑ No	(go to sec	tion 2.5)					
				-	1				· · · · ·
	u answered "yes" to E ed in the terms and u								uon,
A. OUTFAL	L(S) B. QUANTITY PER DA	Y C. UNITS OF MEASUR	E		D. OPERATION	N, PRODUCT, N	MATERIAL, ETC. (specify)	
.4 IMPR	ROVEMENTS		<u> </u>						
^ /	Are you required by a upgrading, or operation affect the discharges or enforcement orders	on of wastewater tr described in this a s, enforcement cor	eatment ed pplication? npliance so	quipment or This inclu- chedule lett	r practices o des, but is n ers, stipulati	r any other ot limited t	environment o, permit cond	al programs litions, admi	which may nistrative
ι ε ο	/	wing table)	<u> </u>	No (go to	2.0)			4. FINAL CO	IPLIANCE DATE
u a c	es (complete the follo			2 00155	DESCRIPTION O	F PROJECT	,	A, REQUIRED	B. PROJECTE
L a c T Ye	es (complete the follo rification of condition, agreement, etc.	2. AFFECTED OUTFALLS		J. DRIEF				A. ILLOUINED	B. PROJECTE
L a c T Ye	IFICATION OF CONDITION,			3. BRIEF				A, REGUIRED	B. PROJECTE
L c C T. IDENT	IFICATION OF CONDITION,			3. BRIEF				A, NEGOTILES	B. PROSECTE
L c C T. IDENT	IFICATION OF CONDITION,			3. BRIEF				A, NEGOINED	B. PROSECTE

information for any haule	any industrial or domestic bio	volume, and methods	rated at yo (incineratio	our facility. Include names and contact on, landfilling, composting, etc) used. See
DATA COLLECTION AN	ID REPORTING REQUIREM	MENTS FOR APPLICA	NTS	
3.0 EFFLUENT (AND IN	TAKE) CHARACTERISTICS	(SEE INSTRUCTIONS	S)	
				(and intake) – annotate the outfall (intake) e intake data unless required by the
believe is discharged	low to list any pollutants liste or may be discharged from a asons you believe it to be pr	any outfall not listed in p	oarts 3.0 A	. Table B which you know or have reason to or B on Table 1. For every pollutant listed, ata in your possession.
1. POLLUTANT	2. SOUF	RCE 3. O	JTFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)
. 100 100 100 100 100 100 100 100 100 10				
3.1 Whole Effluent Toxic A. To your knowledge, hwaters in relation to your	•	cicity (WET) tests been name years?	performed	on the facility discharges (or on receiving
Yes (go to 3.1 B)	✓ No (go to 3.2)			
any results of toxicity ide	entification evaluations (TIE)	or toxicity reduction eva	ıluations (⊺	ns tested, and the testing results. Provide IRE) if applicable. Please indicate the ps the facility is taking to remedy the
3.2 CONTRACT ANALY	SIS INFORMATION			
·	•	•	-	ntract laboratory or consulting firm? I laboratory or firm.) \text{No (go to 4.0)}
A. LAB NAME	B. ADDRESS	C. TELEPHONE (area code and number)		D. POLLUTANTS ANALYZED (list or group)
PDC Laboratories, Inc.	2231 West Altorfer Drive, Peoria, IL 61615	800-752-6651	see attac	ched

4.0 STORMWATER

4.1

Do you have industrial stormwater discharges from the site? If so, attach a site map outlining drainage areas served by each outfall. Indicate the following attributes within each drainage area: pavement or other impervious surfaces; buildings; outdoor storage areas; material loading and unloading areas; outdoor industrial activities; structural stormwater control measures; hazardous waste treatment, storage, and disposal units; and wells or springs in the area.

OUTFALL NUMBER	TOTAL AREA DRAINED (PROVIDE UNITS)	TYPES OF SURFACES (VEGETATED, STONE, PAVED, ETC)	BEST MANAGEMENT PRACTICES EMPLOYED; INCLUDE STRUCTURAL BMPS AND TREATMENT DESIGN FLOW FOR BMPS DESCRIBE HOW FLOW IS MEASURED
001	15.5 acres	Vegetated	Vegetated ground with holding pond. Flow is measured by truck volumes.
002	17.32 acres	Vegetated	Vegetated ground with holding pond. Flow is measured by truck volumes.

4.2 STORMWATER FLOWS

Provide the date of sampling with the flows, and how the flows were estimated.

Sampled quarterly or when ponds are full and pond water needs to be hauled away. Measured by number of haul truck volumes.

SIGNATORY REQUIREMENTS

5.0 CERTIFICATION

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

NAME AND OFFICIAL TITLE (TYPE OR PF	INT)				TELEPHONE NUMBER WITH AREA CODE
AN ONEW DONSAN	OSNECTON	OF	CENTRAL	4 EAUSLES	573-221-0111
SIGNATURE (SEE INSTRUCTIONS)					DATE SIGNED
RICE					1-20-22

SEE INSTRUCTIONS; PLEASE PRINT OR TYPE.

You may report some or all of this information on separate sheet (use similar format) instead of completing these pages.

FOR 3.0 - ITEMS A AND B

TABLE 1

FORM C

MILLIONS OF GALLONS PER DAY (MGD) B. MASS 3. UNITS (specify if blank) OUTFALL NO. 001 & 002 lbs/day lbs/day lbs/day STANDARD UNITS (SU) Ļ 3.0 PART A - You must provide the results of at least one analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions. A. CONCEN-TRATION mg/L mg/L mg/L D. NO. OF ANALYSES 2 2 2 2 N (2) MASS 0.273 lb/day 1.334 lb/day 3.592 lb/day C. LONG TERM AVERAGE VALUES 0.005857 MGD (1) CONCENTRATION AVERAGE 7.6 19.5 mg/L 52.5 mg/L 4 mg/L VALUE VALUE VALUE (2) MASS 0.273 lb/day 1.574 lb/day 5.269 lb/day B. MAXIMUM 30 DAY VALUES 0.008205 MGD THIS OUTFALL IS: (1) CONCENTRATION MAXIMUM 8.5 77 mg/L 23 mg/L 4 mg/L VALUE VALUE VALUE (2) MASS 0.273 lb/day 1.574 lb/day 5.269 lb/day A. MAXIMUM DAILY VALUE **EFFLUENT (AND INTAKE) CHARACTERISTICS** 0.008205 MGD (1) CONCENTRATION MINIMUM 6.7 |23 mg/L 77 mg/L 4 mg/L VALUE VALUE VALUE B. Chemical Oxygen Demand (sammer) Total Suspended Solids (winter) C. Total Organic Carbon A. Biochemical Oxygen Demand, 5-day (BODs) 1. POLLUTANT E. Ammonia as N G. Temperature H. Temperature F. Flow (000) (DOT) (TSS) 표.

3.0 PART B – Mark "X" in column 2A for each pollutant you know or have reason to believe is present. Mark "X" in column 2B for each pollutant you believe to be absent. If you mark Column 2A for any pollutant, you must provide the results for at least one analysis for the pollutant. Complete one table for each outfall (intake). Provide results for additional parameters not listed here in Part 3.0 C.

TANELL LION 1	2. MARK "X"	εκ "X"				3. VALUES				4. UNITS	IITS
œ	A BELIEVED		A. MAXIMUM DAILY VALUE	AILY VALUE	B. MAXIMUM 3	B. MAXIMUM 30 DAY VALUES	C. LONG TERM A	C. LONG TERM AVERAGE VALUES	D. NO. OF	A. CONCEN-	
(H available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Nor	-Conver	tional Pollutants			Augmentaria de la companya del la companya de la co					
A. Alkalinity (CaCO ₃)		×	MINIMUM		MINIMUM		MINIMUM				
B. Bromide (24959-67-9)											
C. Chloride (16887-00-6)	×		7.7 mg/L	0.5629 lb/day 7.7 mg/L	7.7 mg/L	0.5629 lb/day 10.35 mg/L	10.35 mg/L	0.708 lb/day	2	mg/L	lbs/day
D. Chlorine, Total Residual		×									
E. Color		×									
F. Conductivity		×									
F. Cyanide, Amenable to Chlorination		×									

	2. MARK "X"	εκ "X"	4.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1			3. VALUES				4. UNITS	ITS
1. POLLUTANT AND CAS NUMBER			A. MAXIMUR	A. MAXIMUM DAILY VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE			
(if available)	A BELIEVED PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	A. CONCEN- TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants (Continued)	al and No	r-Conver	itional Pollutant	s (Continued)		The state of the s					
G. E. coli		×					And the second s				
H. Fluoride (16984-48-8)											
I. Nitrate plus Nitrate (as N)		×									
J. Kjeldahl, Total (as N)		×									
K. Nitrogen, Total Organic (as N)		×								The state of the s	
L. Oil and Grease	×		5.4 mg/L	0.367 lb/day	5.7 mg/L	0.367 lb/day	5.55 mg/L	0.378 lb/day	2	mg/L	lbs/day
M. Phenols, Total		×									
N. Phosphorus (as P), Total (7723-14-0)		×									
O. Sulfate (as SO ⁴) (14808-79-8)		×									
P. Sulfide (as S)		×								And delicated in company or consequence of the cons	
Q. Sulfite (as SO³) (14265-45-3)		×									
R. Surfactants		×									
S. Trihalomethanes, Total		X									
Subpart 2 - Metals											
1M. Aluminum, Total Recoverable (7429-90-5)	×		740 mg/L	50.63 lb/day	740 mg/L	50.63 lb/day	920 mg/L	62.96 lb/day	2	mg/L	lbs/day
2M. Antimony, Total Recoverable (7440-36-9)		×				THE STATE OF THE S					
3M. Arsenic, Total Recoverable (7440-38-2)		×									
4M. Barium, Total Recoverable (7440-39-3)	×		150 mg/L	10.26 lb/day	150 mg/L	10.26 lb/day	150 mg/L	10.26 lb/day	_	mg/L	lbs/day
5M. Beryllium, Total Recoverable (7440-41-7)		×									
6M. Boron, Total Recoverable (7440-42-8)		×									
7M. Cadmium, Total Recoverable (7440-43-9)		×									
8M. Chromium III Total Recoverable (16065-83-1)		×									
9M. Chromium VI, Dissolved (18540-29-9)		×									
10M. Cobalt, Total Recoverable (7440-48-4)		×									

TAN TILL	2. MA	2. MARK "X"				3. VALUES				4. UNITS	IITS
AND CAS NUMBER	A BELIEVED	l .	A. MAXIMUM	A. MAXIMUM DAILY VALUE	B. MAXIMUM:	B. MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE	CN CN	4	
	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	finued)					The second secon					
11M. Copper, Total Recoverable (7440-50-8)		×				The state of the s					
12M. Iron, Total Recoverable (7439-89-6)	×		870 mg/L	59.53 lb/day	870 mg/L	59.53 lb/day	1135 mg/L	77.67 lb/day	2	mg/L	lbs/day
13M. Lead, Total Recoverable (7439-92-1)		×									
14M. Magnesium, Total Recoverable (7439-95-4)		×									
15M. Manganese, Total Recoverable (7439-96-5)	×		61 mg/L	1.785 lb/day	61 mg/L	1.785 lb/day	39.5 mg/L	0.892 lb/day	2	mg/L	lbs/day
16M. Mercury, Total Recoverable (7439-97-6)		×									At the Hilliam was a second as
17M. Methylmercury (22967926)		×									
18M. Molybdenum, Total Recoverable (7439-98-7)		×									
19M. Nickel, Total Recoverable (7440-02-0)	×		15 mg/L	0.439 lb/day	15 mg/L	0.439 lb/day	15 mg/L	0.439 lb/day	_	mg/L	lbs/day
20M. Selenium, Total Recoverable (7782-49-2)		×									
21M. Silver, Total Recoverable (7440-22-4)		×	And a design production								
22M. Thallium, Total Recoverable (7440-28-0)		×									
23M. Tin, Total Recoverable (7440-31-5)											
24M. Titanium, Total Recoverable (7440-32-6)											
25M. Zinc, Total Recoverable (7440-66-6)	×		28 mg/L	0.819 lb/day	28 mg/L	0.819 lb/day	28 mg/L	0.819 lb/day	_	mg/L	lbs/day
Subpart 3 - Radioactivity											
1R. Alpha Total		×									
2R. Beta Total		×									
3R. Radium Total		×									
4R. Radium 226 plus 228 Total		×									

INSTRUCTIONS FOR FILLING OUT APPLICATION FOR NPDES DISCHARGE PERMIT – FORM C – MANUFACTURING, COMMERCIAL, MINING, SILVICULTURE OPERATIONS, PROCESS WASTEWATER, NON-PROCESS WASTEWATER, AND INDUSTRIAL STORMWATER DISCHARGES.

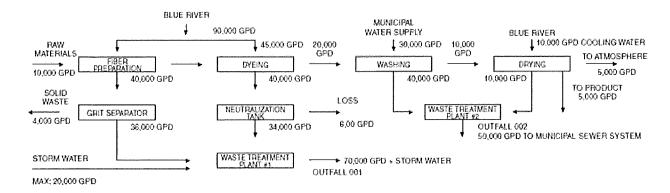
All applicable sections must be filled in when the application is submitted. The form must be signed as indicated. This application is to be completed only for facilities with a discharge. Non-discharging (land application facilities) should fill out the appropriate forms for the activity. Include any area with potential discharge, even if there is normally no discharge. If this form is not adequate for you to describe your existing operations, then sufficient information should be attached so an evaluation of the discharges can be made. Attach additional sheets as necessary for any additional information. If an applicant believes previous outfalls are no longer applicable to the facility, please indicate so. Certain parts of the application may be submitted electronically, such as extensive analytical data, or project plans relating to improvements. This may be included using a thumb drive or CD. If extensive data is submitted without an electronic copy, the department may request the submission at a later time so the permit writer can mathematically evaluate the data. If you have any questions regarding this form please contact the Water Protection Program Operating Permits Administrative Assistant at 800-361-4827 or 573-571-6825 and you will be directed to a permit writer.

GENERAL INFORMATION

- 1.0 Name of Facility By what title or name is this facility known? Has the official name changed? Please indicate both the previous and current name you wish to be listed on the permit.
- 1.1 Operating permit number as assigned (MO-#######)
- 1.2 Indicate if this is a new facility or if there are any new discharges. Has the facility completed an antidegradation review? Is this facility being moved from a general permit to a site specific permit? If so, indicate general permit number.
- 1.3 Self-explanatory.

FLOWS, TYPE, AND FREQUENCY

2.0 The line drawing should show the route taken by water in your facility from intake to discharge. Show all operations contributing wastewater, including process and production areas, sanitary flows, cooling water, and stormwater runoff. Indicate any alternate treatment trains available. You may group similar operations into a single unit labeled to correspond to the more detailed listing. More than one drawing may be required depending on the complexity of the system. The water balance should show average and maximum flows. Show all significant losses of water to: products, atmosphere, public sewer systems; both storm sewer and sewer. You should use actual measurements whenever available; otherwise, use your best estimate. An example of an acceptable line drawing appears below.



2.1 List all sources of wastewater to each outfall. Operations may be described in general terms (for example, "dye-making reactor" or a "distillation tower"). You may estimate the flow contributed by each source if no data is available, and for stormwater, you may use any reasonable measure of duration, volume, or frequency. For each treatment unit, indicate its size, flow rate, and retention time, and describe the ultimate disposal of any solid or liquid wastes not discharged. Treatment units should be listed in order and you should select the proper code from Table A to fill in column 3B for each treatment unit. Insert "XX" into column 3B if no code corresponds to a treatment unit you list.

PHYSICAL TREATMENT PROCESSES		TABLE A – CODES FO	R TREATM	MENT UNITS
1-B	PHYSICAL	L TREATMENT PROCESSES	1 19	
1-B	1-A	Ammonia Stripping	1-M	Grit Removal
1-D Distillation 1-P Moving Bed Filters 1-E Electrodialysis 1-Q Multimedia Filtration 1-F Evaporation 1-R Rapid Sand Filtration 1-G Floculation 1-S Reverse Osmosis (Hyper Filtration) 1-H Formation 1-J Screening 1-J Feezing 1-V Solw Sand Filtration 1-L Gramman 1-W Solvent Extraction 1-L Gramman 2-G Disinfection (Ozone) 2-B Carbon Absorption 2-G Disinfection (Ozone) 2-B Chemical Oxidation 2-H Disinfection (Other) 2-B </td <td>1-B</td> <td></td> <td>1-N</td> <td>Microstraining</td>	1-B		1-N	Microstraining
1-E Electrodialysis 1-Q Multimedia Fittration 1-F Evaporation 1-R Rapid Sand Filtration 1-G Flocculation 1-S Reverse Osmosis (Hyper Filtration) 1-H Foam Fractionation 1-T Screening 1-I Foam Fractionation 1-U Sedimentation (Settling) 1-J Freezing 1-V Slow Sand Filtration 1-L Grinding (Comminutors) 1-W Solvent Extraction 1-L Grinding (Comminutors) 1-X Soprtion CHEMICAL TREATMENT PROCESSES 2-A Carbon Absorption 2-G Disinfection (Ozone) 2-B Chemical Oxidation 2-H Disinfection (Other) 2-C Chemical Precipitation 2-H Disinfection (Other) 2-E Dechlorination 2-H Reduction 2-F Disinfection (Chlorine) 2-L Reduction BIOLOGICAL TREATMENT PROCESSES 3-F Spray Irrigation/Land Application 3-B Activated Studge 3-E Pre-Aeration	1-C	Diatomaceous Earth Filtration	1-0	Mixing
1-F	1-D	Distillation	1-P	
1-F Evaporation 1-R Rapid Sand Filtration 1-G Flocculation 1-S Reverse Osmosis (Hyper Filtration) 1-H Floation 1-T Screening 1-I Foam Fractionation 1-U Sedimentation (Settling) 1-J Freezing 1-V Slow Sand Filtration 1-L Grinding (Comminutors) 1-X Solvent Extraction 2-B Chemical Oxidation 2-H Disinfection (Ozone) 2-B Chemical Precipitation 2-H Disinfection (Other) 2-C Chemical Precipitation 2-H Disinfection (Other) 2-E Decholorination 2-H Reuterion 3-A Activated Sludge 3-E Spray Irrigation Annacrobic Treatment 3-B	1-E	Electrodialysis	1-Q	Multimedia Filtration
1-G	1-F		1-R	Rapid Sand Filtration
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^{2.2} A discharge is intermittent unless it occurs without interruption during the operating hours of the facility, except for infrequent shutdowns for maintenance, process changes, or other similar activities. A discharge is seasonal if it occurs only during certain parts of the year. Fill in every applicable column in this item for each source of intermittent or seasonal discharges. Base your answers on actual data whenever available; otherwise, provide your best estimate. Report the highest daily value for flow rate and total volume in the "Maximum Daily" columns. Report the average of all daily values measures during days when discharge occurred within the last year in the "Long Term Average" columns.

PRODUCTION

- 2.3 A. All effluent limitation guidelines (ELGs) promulgated by EPA appear in the Federal Register and are published annually in 40 CPR Subchapter N (400-499). A guideline applies to you based on the applicability sections within each subpart. If you are unsure you are covered by an ELG, check with your Missouri Department of Natural Resources' Regional Office. You must check yes if an applicable effluent guideline has been promulgated, even if the guideline limitations are being contested in court. If you believe a promulgated effluent guideline has been remanded for reconsideration by a court and does not apply to your operations, you may check no. The ELG number and subpart(s) must be included.
- 2.3 B. An ELG is expressed in terms of production (or other measure of operation) if the limitations are expressed as mass of pollutant per operational parameter; for example, "pounds of BOD per cubic foot of logs from which bark is removed," or "pounds of TSS per megawatt hour of electrical energy consumed by smelting furnace." An example of a guideline not expressed in terms of a measure of operation is one which limits the concentration of pollutants, or requires no discharge of the wastewater.
- 2.3 C. This item must be completed if you checked "yes" to item B. The production information requested here is necessary to apply effluent guidelines to your facility and you may not claim it as confidential. However, you do not have to indicate how the reported information was calculated. Report quantities and the units of measurement used in the applicable effluent guideline. The data provided must be a measure of actual operation over a one month period, such as the production for the highest month during the last twelve months, or the monthly average production for the highest year of the last five years, or other reasonable measure of actual operation, but may not be based on design capacity or on predictions of future increases in operation. This data must be concurrent of facility operations.
- 2.4 IMPROVEMENTS If you check yes to this question, complete all parts of the table, or attach a copy of any previous submission you have made containing the same information. You are not required to submit a description of future pollution control projects if you do not wish to, or if none are planned.
- 2.5 SLUDGE MANAGEMENT If the facility generates any sludge or biosolids, please indicate where the sludge accumulates (lagoon, tank, etc.) and the methods of disposal. Please include the volume and frequency of sludge removal/disposal and any haulers used. Please indicate if the facility composts, incinerates, landfills, stores, sells, or other methods of eliminating the sludge from lagoons or holding tanks. Consider submitting a sludge or biosolids management plan electronically if additional description is needed.

DATA COLLECTION AND REPORTING REQUIREMENTS FOR APPLICANTS

- 3.0 This section requires collection and reporting of data on pollutants discharged from each outfall, including stormwater outfalls, non-process wastewater, and any intake data you wish to provide. Parts A, B, and C address different sets of pollutants and must be completed in accordance with the specific instructions for the part. All data must be reported as a concentration **and** as total mass. You may report some or all of the required data by attaching separate sheets of paper.
- 3.0 A, and B. These sections are found on Table 1. Complete a separate table for each outfall and intake.
- 3.0 A. Requires reporting at least one analysis for each pollutant. Part A must be completed by all applicants for all outfalls, including outfalls containing only noncontact cooling water, stormwater runoff, or other discharges; intake values are not required in this Part. Upon written request, (email is suitable) prior to submitting the application, the department may waive the requirements to test for one or more of these pollutants upon determining testing for the pollutant(s) is not applicable for your effluent.
- 3.0 B. Mark "X" in either "Believed Present", Column 2A, or "Believed Absent", Column 2B, for each pollutant, based on your best estimate, and test those you believe present. Base your determination a pollutant is present in, or absent from, your discharge on your knowledge of your raw materials, source water, maintenance chemicals, intermediate, byproduct, and final products, and any previous analyses known to you of the facility's effluent, or of any similar effluent. If either chloride or sulfate is believed present, the department asks you to test for both chloride and sulfate. If you expect a pollutant is present as a result your intake water, you should mark "Believed Present" and analyze for the pollutant. Provide analysis of the intake or source water as well; this includes water withdrawn from wells or obtained from a potable water source. Presence of a pollutant in the discharge from sourced water does not eliminate disclosure requirements. If a

pollutant is reported as not present, the pollutant will be considered "believed absent" for the purposes of application shield.

3.0 A and B Continued

Use the following abbreviations (or other as applicable) in Column 4, "Units". Mass must be specified as per day, month, or year.

C	CONCENTRATION		MASS
ppm	parts per million	lbs	pounds
mg/L	milligrams per liter	ton	tons (English tons)
ppb	parts per billion	mg	Milligrams
ug/L	micrograms per liter	g	grams
pCi/L	picocuries per liter	kg	kilograms
		Ť	tonnes (metric tons)

MAXIMUM DAILY VALUE. If you measure a pollutant only once, complete only the "Maximum Daily Value" columns and insert "1" into the "number of analyses" in Column D. The Missouri Department of Natural Resources may require you to conduct additional analyses to further characterize your discharge. If the pollutant is sampled but not detected, a less than "<" symbol should be used next to the detection limit (or laboratory reporting limit). Simply stating "below detection limits" without quantifying the limit of detection may not be appropriate and additional information may be required.

MAXIMUM 30 DAY VALUES. "Maximum 30 Day Values" are not compulsory but should be filled out if data is available. The department suggests at least 4 samples (one per week) be collected over a one month period for averaging purposes, but is not required. Determine the average of all daily values taken during one calendar month, and report the highest average of all daily values taken during all calendar months, and report the highest average in Column B. Column D must show the number of samples used in the calculation.

LONG TERM AVERAGES. "Long Term Average Values" are not compulsory but should be filled out if data is available. Determine the long term average of all the data and report in Column C. Column D must show the number of samples used in the calculations. The facility should include a statement describing the timeframe of the data used in the calculations. Consider including an electronic copy of the data with the application.

SAMPLING. The collection of samples for analyses should be supervised by a person experienced in performing sampling of industrial wastewater and/or stormwater. You may contact your Missouri Department of Natural Resources' Regional Office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate or blank samples, etc. The time when you sample should be representative of your normal operation, with all processes contributing wastewater in normal operation, and with your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, at a site specified in your present permit, or for new discharges, at any site adequate for the collection of a representative sample.

GRAB SAMPLE. An individual sample of sufficient volume for analysis, collected at a randomly selected time, over a period not exceeding 15 minutes, which is representative of the discharge. Grab samples must be used for temperature, pH, total residual chlorine, oil and grease, *E. coli*, and any pollutant considered to be volatile. Grab samples are typically appropriate for stormwater.

COMPOSITE SAMPLE. Use composite sampling (if available) for all pollutants (except above). A combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be proportional; either time interval proportional, or flow proportional. Aliquots may be collected manually or automatically.

ANALYSIS. You must use test methods promulgated in 40 CFR Part 136 for all analyses. The facility must use a sufficiently sensitive method to determine compliance with Missouri Water Quality Standards in accordance with Standard Conditions Part I. If no method has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge. If there is no promulgated method, your attached description should include the preservation techniques, sample holding times, the quality control measures which you used, and any other

pertinent information, such as filtering or what fraction the method detects. For obscure methods or new contaminants, consider including an electronic copy of the method with the application and the laboratory analysis sheets.

IDENTICAL OUTFALL CONSIDERATION. If you have two or more substantially identical outfalls, you may submit the results of the analysis for one substantially identical outfall in its place. Identify which outfall you did test and describe why the outfalls which you did not test are substantially identical to the outfall you did test.

REPORTING OF INTAKE DATA. You are not required to report intake data unless you wish apply for "net" effluent limitations for one or more pollutants. Net limitations are technology limits adjusted by subtracting the level of the pollutant present in the intake water from the discharge. National Pollutant Discharge Elimination System (NPDES) regulations allow net limitations only in certain circumstances. To demonstrate eligibility, report the maximum and average of the results of analyses on the intake water, attach a statement the intake water is drawn from the same body of water into which the discharge is made, and a statement how the pollutant level is reduced by the wastewater treatment. When applicable, a demonstration to the extent the pollutants in the intake vary physically, chemically, or biologically from the pollutants contained in the discharge; for example, when the pollutant represents a class of compounds.

3.0. C. requires listing any pollutants from "TABLE B – TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY APPLICANTS IF EXPECTED TO BE PRESENT" you believe to be present and explain why you believe them to be present. If you have analytical data, you must report it. You may include other pollutants not listed below but present in your discharge in 3.0 C. Please provide Chemical Abstract Service (CAS) numbers for any additional pollutants described. If the facility is required to complete Form D, duplication of the parameters here is not required.

TOXIC POLLUTANT	HAZARDOUS	ECTED TO BE PRESENT
	SUBSTANCES	HAZARDOUS SUBSTANCES
Asbestos	Dimethylamine	Napthenic acid
HAZARDOUS SUBSTANCES	Dintrobenzene	Nitrotoluene
Acetaldehyde	Diquat	Parathion
Allyl alcohol	Disulfoton	Phenolsulfonate
Allyl chloride	Diuron	Phosgene
Amyl acetate	Epichlorohydrin	Propargite
Aniline	Ethion	Propylene oxide
Benzonitrile	Ethylene diamine	Pyrethrins
Benzyl chloride	Ethylene dibromide	Quinoline
Butyl acetate	Formaldehyde	Resorcinol
Butylamine	Furfural	Strontium
Captan	Guthion	Strychnine
Carbaryl	Isoprene	Sytrene
Carbofuran	Isopropanolamine	2,4,5-T (2,4,5-Trichloro-phenoxyacetic acid)
Carbon disulfide	Kelthane	TDE (Tetrachlorodiphenyl ethane)
Chlorpyrifos	Kepone	2, 4, 5-TP (2-(2,4,5-Trichloro-phenoxy) propanoic acid)
Coumaphos	Malathion	Trichlorofon
Cresol	Mercaptodimethur	Triethanolamine
Crotonaldehyde	Methoxychlor	Triethaylamine
2,4-D (2,4-Dichloro-Phenoxyacetic acid)	Methyl mercaptan	Uranium
Diazinon	Methyl parathion	Vanadium
Dicamba	Mevinphos	Vinyl acetate
Dichlobenil	Mexacarbate	Xylene
2,2-Dichloropropionic acid	Monethyl amine	Xylenol
Dichlorvos	Monomethyl amine	Zirconium
Diethylamine	Nalad	

- 3.1 Self-explanatory.
- 3.2 Self-explanatory.

4.0 STORMWATER [10 CSR 20-6.200(2)(C)1.]

In accordance with 10 CSR 20-6.200(2)(C)1.E(I) and (II), the facility must sample the stormwater for any pollutant listed in the permit for process wastewater discharges and/or the applicable Effluent Limitation Guideline. All industrial stormwater must be sampled for parameters listed in 10 CSR 20-6.200(2)(C)1.E.(III); these are: oil and grease, pH, biochemical oxygen demands (BOD $_5$), chemical oxygen demands (COD), total suspended solids (TSS), conductivity, total phosphorus, total Kjeldahl nitrogen, and nitrate plus nitrite nitrogen.

- 4.1 Indicate the outfall numbers for industrial stormwater discharges. Provide the area drained by each outfall. Indicate the type and percentages of surface(s), for example: 60% grass or vegetated areas, 10% non-vegetated soils, 30% pavement, etc., the outfall drains. The facility must indicate any structural best management practices, such as settling/retention, rain garden/infiltration, filter socks, etc, employed at each outfall.
- 4.2 Describe the method used to determine the flow rate in accordance with 10 CSR 20-6.200(2)(C)1., and the flow rate; submit the date and duration of the storm event from which the samples were taken.
- 5.0 SIGNATORY REQUIREMENTS The Clean Water Act provides for severe penalties for submitting false information on this application form. Section 309(c)(2) of the Clean Water Act provides "Any person who knowingly makes any false statement, representation, or certification in any application . . . shall upon conviction, be punished by a fine of no more \$10,000 or by imprisonment for not more than six months, or both.

All applications must be signed as follows and the signature must be original. For a corporation: by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters. For a partnership or sole proprietorship: by a general partner or the proprietor. For a municipal, state, federal or other public facility: by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.



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

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

Hannibal Sanitary Landfill

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

PRIMARY INDUSTRIES

MO 0112721

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

Coal mining 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

N/A - reported on Form C APPLICATION

APPLICATION FOR DISCHARGE PERMIT
FORM D – PRIMARY INDUSTRIES

TABLE II

NPDES # (IF ASSIGNED) OUTFALL NUMBER
0112721 001 & 002

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 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 5. INTAKE (optional) A. LONG TERM AVRG. VALUE (1) CONCENTRATION B. MASS 4. UNITS A. CONCEN-TRATION NO. OF ANALYSES C. LONG TERM AVRG. VALUE (if available) (2) MASS (1) CONCENTRATION 3. EFFLUENT
B. MAXIMUM 30 DAY VALUE
(if available) (2) MASS (1) CONCENTRATION each outfall. See instructions for additional details and requirements. A. MAXIMUM DAILY VALUE (2) MASS (1) CONCENTRATION C. BELIEVE D ABSENT B. BELIEVE D PRESENT 2. MARK "X METALS, AND TOTAL PHENOLS A. TEST-ING REQUIRED 11 15M. Thallium, Total (7440-1M. Antimony, Total (7440-3M. Beryllium, Total (7440-11M. Molybdenum Total (7439-98-7) 1. POLLUTANT AND CAS NUMBER (if available) 9M. Magnesium Total (7439-95-4) 13M. Selenium, Total 4M. Cadmium, Total (7440-43-9) 10M. Mercury, Total 17M. Titanium Total (7440-32-6) 2M. Arsenic, Total 7M. Copper, Total 12M. Nickel, Total 6M. Chromium VI 14M. Silver, Total 5M. Chromium III 18M. Zinc, Total (7440-66-6) 8M. Lead, Total 16M. Tin Total (7440-31-5) (16065-83-1)(18540-29-9) (7440-50-8)(7782-49-2)(7439-92-1)(7439-97-6)(7440-22-4)(7440 - 38 - 2)(7440-02-0)1.30 41-7)

PAGE 2

MO 780-1516 (06-13)

B. NO OF ANALYSES CONTINUE ON PAGE 4 5. INTAKE (optional) (2) MASS A. LONG TERM AVRG. VALUE (1) CONCENTRATION B. MASS 4. UNITS A. CONCEN-TRATION D. NO. OF ANALYSES C. LONG TERM AVRG. VALUE (2) MASS (1) CONCENTRATION 3. EFFLUENT
B. MAXIMUM 30 DAY VALUE
(if available) PAGE 3 (2) MASS (1) CONCENTRATION (2) MASS A. MAXIMUM DAILY VALUE DESCRIBE RESULTS (1) CONCENTRATION C. BELIEVED ABSENT \Box GC/MS FRACTION - VOLATILE COMPOUNDS B. BELIEVED PRESENT 2. MARK Г Γ \Box A. TES-ING RE-QUIRED Г \Box CONTINUED FROM PAGE 3 4V. Bis (Chloromethyl)
Ether (542-88-1)
5V. Bromoform
(75-25-2)
6V. Carbon Tetrachloride
6V. Carbon Tetrachloride
(16-23-5)
7V. Chlorobenzene
(108-90-7)
8V. Chlorodibromomethane
(124-48-1) 11V. Chloroform (67-66-3) 12V. Dichlorobromomethane (75-27-4) 14V. 1,1 – Dichloroethane (75-34-3) 15V. 1,2 – Dichloroethane (107-06-2) 16V. 1,1 – Dichloroethylene (75-35-4) 19M. Cyanide, Amenable to Chlorination 2,3,7,8 – Tetra – chlorodibenzo-P-Dioxin (1764-01-6) 18V. 1,2 -Dichloropropylene (542-75-6) 17V. 1,3 – Dichloropropane (78-87-5) 13V. Dichloro-difluoromethane (75-71-8) 1. POLLUTANT AND CAS NUMBER (if available) 20V. Methyl Bromide (74-83-9) 21V. Methyl Chloride (74-87-3) MO 780-1516 (06-13) 10V. 2-Chloroethylvinyl Ether (110-75-8) 20M. Phenols, Total 19V. Ethylbenzene (100-41-4) 9V. Chloroethane (75-00-3) 2V. Acrylonitrile (107-13-1) 3V. Benzene (71-43-2) 1V. Acrolein (107-02-8) DIOXIN

CONTINUED FROM THE FRONT

OUTFALL NUMBER

B. NO OF ANALYSES CONTINUE ON PAGE 5 5. INTAKE (optional) A. LONG TERM AVRG. VALUE CONCENTRATION 4. UNITS A. CONCEN-TRATION D. NO. OF ANALYSES (2) MASS C. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION (2) MASS B. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS A. MAXIMUM DAILY VALUE (1) CONCENTRATION GC.MS FRACTION - VOLATILE COMPOUNDS (continued) C. BELIEVED ABSENT Г 2. MARK "X" B. BELIEVED PRESENT GC/MS FRACTION - ACID COMPOUNDS \Box Γ A, TESTING RE-QUIRED Г 24V. Tetrachloroethylene (127-18-4) 22V. Methylene Chloride (75-09-2) 26V. 1,2 — Trans Dichloroethylene (156-60-5) 27V. 1,1,1 — Tri — chloroethane (71-55-6) 30V. Trichloro – fluoromethane (75-69-4) 12A. 2 - methyl – 4,6 dinitrophenol (534-52-1) 1. POLLUTANT AND CAS NUMBER (if available) 23V. 1,1,2,2 – Tetra-chloroethane (79-34-5) 28V. 1,1,2 – Tri-chloroethane (79-00-5) MO 780-1516 (06-13) 11A, 2,4,6 - Trichloro-phenol (88-06-2) 1A. 2 – Chlorophenol (95-57-8) 2A. 2,4 – Dichloro – phenol (120-83-2) 3A. 2,4 – Dimethyl – phenol (105-67-9) 4A. 4,6 – Dinitro - O-Cresol (534-52-1) 6A. 2-Nitrophenol (88-75-5) 7A. 4-Nitrophenol (100-02-7) 8A. P – Chloro – M Cresol (59-50-7) 9A. Pentachloro – phenol (87-86-5) 10A. Phenol (108-952) 29V. Trichloro – ethylene (79-01-6) 31V. Vinyl Chloride (75-01-4) 5A. 2,4 – Dinitro – phenol (51-28-5) 25V. Toluene (108-88-3)

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CONTINUED TROM THE TROM	- 1	2 MADK "Y"				1 6	2 ECCI HENT							Γ
1. POLLUTANT				A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (# available)	Y VALUE	C. LONG TERM AVRG. VALUE	VRG.		4. UNITS	5. INTAKE (optional)	optional)	
AND CAS NUMBER (if available)	A, TESTING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1) NOITE ATION	(2) MASS	(1)	(2) MASS	(1)	(2) MASS	D. NO. OF ANALYSES	A. B. MASS CONCEN- TRATION	AVRO	B. NO OF ANALYSES	1 ,,
				CONCENIDA		CONCENTION		CONCENIES				(1) CONCENTRATION M.	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS	E/NEUTRAL	COMPOUN	SQI							•				
1B. Acenaphthene (83-32-9)														
2B. Acenaphtylene (208-96-8)														
3B. Anthracene (120-12-7)									***************************************					
4B. Benzidine (92-87-5)														
5B. Benzo (a) Anthracene (56-55-3)														
6B. Benzo (a) Pyrene (50-32-8)														
7B. 3,4 — Benzofluoranthene (205-99-2)														
8B. Benzo (ghi) Perylene (191-24-2)														
9B. Benzo (k) Fluoranthene (207-08-9)														
10B. Bis (2-Chloroethoxy) Methane (111-91-1)														
11B. Bis (2-Chloroethyl) Ether (111-44-4)														
12B. Bis (2- Chloroisopropyl) Ether (39638-32-9)														
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)														
14B. 4-Bromophenyl Phenyl Ether (101-55-3)														
15B. Butyl Benzyl Phthalate (85-68-7)														
16B. 2- Chloronaphthalene (91-58-7)									-				<u>.</u>	
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)														
18B. Chrysene (218-01-9)														
19B. Dibenzo (a.h) Anthracene (53-70-3)														
20B. 1,2— Dichlorobenzene (95-50-1)														
21B. 1,3 Dichlorobenzene (541-73-1)														
MO 780-1516 (02-12)						PAGE 5	2					CONT	CONTINUE ON PAGE 6]

CONTINUED FROM PAGE 5

OUTFALL NUMBER

NPDES # (IF ASSIGNED)

CONTINUE ON PAGE 7 5. INTAKE (optional) (2) MASS A. LONG TERM AVRG. VALUE (1) CONCENTRATION 4. UNITS A. CONCEN-TRATION D. NO. OF ANALYSES (2) MASS C. LONG TERM AVRG. VALUE (1) CONCENTRATION PAGE 6 (2) MASS 3. EFFLUENT B. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS A. MAXIMUM DAILY VALUE (1) CONCENTRATION GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued) C. BELIEVED ABSENT BELIEVED PRESENT 2. MARK "X" A. TESTING REQUIRED \Box Hexachlorobutadiene (87-68-3) 35B. Hexachloro-cyclopentadiene (77-47-4) 36B. Hexachloroethane (67-72-1) 30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7) 26B. Di-N-butyl Phthalate (84-74-2) 27B 2,4-Dinitrotoluene (121-14-2) 28B. 2,6-Dinitrotoluene (606-20-2) 29B. Di-N-Octyphthalate (117-84-0) (106-46-7)
23B. 3, 3'Dichlorobenzidine
(91-94-1)
24B. Diethyl Phthalate
(84-66-2)
25B. Dimethyl Phthalate
(131-11-3) 33B. Hexachlorobenzene (87-68-3) 41B. N-Nitro-sodimethylamine (62-75-9) 37B. Indeno (1,2,3-c-d) Pyrene (193-39-5) 38B. Isophorone (78-59-1) 1. POLLUTANT AND CAS NUMBER (if available) MO 780-1516 (06-13) 40B. Nitrobenzene (98-95-3) 319. Fluoranthene (206-44-0) 32B. Fluorene (86-73-7) 39B. Naphthalene (91-20-3) 22B. 1, 4-Dichlorobenzene

CONTINUED FROM THE FRONT

CONTINUED FROM THE FROM	- 1	2. MARK "X"		***************************************		3.	3. EFFLUENT						
1. POLLUTANT		α	Ľ	A. MAXIMUM DAILY VALUE	Y VALUE	B. MAXIMUM 30 DAY VALUE (if available)	AY VALUE e)	C. LONG TERM AVRG. VALUE (if available)		4. UNITS	5. INTAKE (optional)	optional)	
AND CAS NUMBER (if available)	A, TES-ING REQUIRED	BELIEVED PRESENT	BELIEVED ABSENT	(1)	(2) MASS	(1)	(2) MASS	(1)	D. NO. OF ANALYSES (2) MASS	A. B. MASS CONCEN- TRATION	A. LONG TERM AVRG	B. NO OF ANALYSES	ES.
				CONCENTRATION		CONCENIRATION					(1) CONCENTRATION M	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)	E/NEUTRAL	COMPOUN	IDS (continu	(pa)									
42B. N-Nitroso N-Propylamine (621-64-7)		Γ	٦										
43B. N-Nitro- sodiphenylamine (86-30- 6)	7	٦											
44B. Phenanthrene (85-01-8)	٦												
45B. Pyrene (129-00-0)	П		П										
46B. 1,2,4-Tri chlorobenzene (120-82-1)													
GC/MS FRACTION - PESTICIDES	ESTICIDES												
1P. Aldrin (309-00-2)	٦	٦											
2P. a-BHC (319-84-6)	٦	Γ	Γ										
3P. BHC (319-84-6)													
4P. y-BHC (58-89-9)	Γ	Γ	Γ										
5P. 5-BHC (319-86-8)	Г	Γ	Γ										
6P. Chlordane (57-74-9)	П	Г	Г										
7P. 4,4'-DDT (50-29-3)	٦		٦										
8P. 4,4'-DDE (72-55-9)	٦		٦										
9P. 4,4'-DDD (72-54-8)	Γ	Γ	٦										
10P. Dieldrin (60-57-1)		Г	Г										
11P. α-Endosulfan (115-29-7)	٦	Γ	Γ										
12P. β-Endosultan (115-29-7)	٦	Γ	П										
13P. Endosulfan Sulfate (1031-07-8)													
14P. Endrin (72-20-8)													
15P. Endrin Aldehyde (7421-93-4)													
16P. Heptachlor (76-44-8)	П	П	П										
MO 780-1516 (06-13)							PAGE 7	7			CONTINUED ON PAGE 8	AGE 8	

CONTINUED FROM PAGE 7

OUTFALL NUMBER

NPDES # (IF ASSIGNED)

5. INTAKE (optional) (2) MASS A. LONG TERM AVRG. VALUE (1) CONCENTRATION 4. UNITS A. CONCEN-TRATION D. NO. OF ANALYSES (2) MASS C. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION (2) MASS 3. EFFLUENT B. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION (2) MASS A. MAXIMUM DAILY VALUE (1) CONCENTRATION C. BELIEVED ABSENT B. BELIEVED PRESENT 2. MARK "X" GC/MS FRACTION - PESTICISES (continued) A. TESTING REQUIRED 1. POLLUTANT AND CAS NUMBER (if available) MO 780-1516 (06-13) 17P. Heptachlor Epoxide (1024-57-3) 18P. PCB-1242 (53469-21-9) 19P. PBC-1254 (11097-69-1) 20P. PCB-1221 (11104-28-2) 21P. PCB-1232 (11141-16-5) 22P. PCB-1248 (12672-29-6) 23P. PCB-1260 (11096-82-5) 24P. PCB-1016 (12674-11-2) 25P. Toxaphene (8001-35-2) (4) Radium 226 Total J. RADIOACTIVITY (3) Radium Total (1) Alpha Total (2) Beta Total

A. IS ANY POLLUT.	ANT LISTED IN ITE		CE OR A COMPONE	NT OF A SUBSTANCE WH NAL PRODUCT OR BYPRO		EXPECT THAT Y	OU WILL OVER THE
YES (LIST ALL SUCH PO	DLLUTANTS BELOW)		NO (GO TO B)			
DISCHARGES C	F POLLUTANTS M COMPLETE C BEL	OW)	XT FIVE YEARS EX IO (GO TO SECTION		AXIMUM VALUES	REPORTED IN IT	ГЕМ 1.30?
YOU ANTICIPAT	E WILL BE DISCHA	M B, EXPLAIN BELOV ARGED FROM EACH ITS IF YOU NEED MO	OUTFALL OVER TH	N DETAIL THE SOURCES A HE NEXT FIVE YEARS, TO	AND EXPECTED L THE BEST OF YO	EVELS OF SUCH OUR ABILIITY AT	H POLLUTANTS THAT THIS TIME.
WERE AN	IST THE NAME, A	ES REPORTED IN 1.		A CONTRACT LABORATO			1 BELOW)
∐ NO (G	O TO SECTION 4.0	00)					
∐ NO (G A. NAN		, 	DRESS	C. TELEPHONE (area c	ode and number)	D. POLLUTA	NTS ANALYZED (list)
`	1E	B. ADI	DRESS Altorfer Drive,	C. TELEPHONE (area of (800) 752-1	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAN	1E	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAM	ne ories, Inc.	B. ADI		•	· .	D. POLLUTA	NTS ANALYZED (list)
A. NAM PDC Laborate 4.00 CERTIFICA I certify under period application and a the information, penalties for sub-	ories, Inc. TION enalty of law the all attachment of the believe that or	b. ADI 2231 West A 2231 West A and I have personated and that, base the information, inclination and the companion of the	onally examine ed on my inqui is true, accura	•	with the informals immediate am aware that prisonment.	nation submitely responsib	tted in this ble for obtaining significant
A. NAM PDC Laborate 4.00 CERTIFICA I certify under period application and a the information, penalties for sub-	ories, Inc. TION enalty of law the last attachment of the last att	b. ADI 2231 West A 2231 West A hat I have persons and that, bas the information, includent	onally examine ed on my inqui is true, accura uding the poss	d and am familiar wry of those individuate and complete. Isibility of fine and im	with the informals immediate am aware that prisonment.	nation submitely responsib at there are s	tted in this ble for obtaining significant
A. NAM PDC Laborate 4.00 CERTIFICA I certify under period application and a the information, penalties for subsequent to the period of the information and a the information	ories, Inc. TION enalty of law the last attachment of the last att	b. ADI 2231 West A 2231 West A hat I have persons and that, bas the information, includent	onally examine ed on my inqui is true, accura uding the poss	d and am familiar wry of those individuate and complete. I	vith the informals immediate am aware that prisonment. PHONE NUMBE 573-221-011	nation submitely responsib at there are s	tted in this ble for obtaining significant
A. NAM PDC Laborate 4.00 CERTIFICA I certify under period application and a the information, penalties for sub-	ories, Inc. TION enalty of law the last attachment of the last att	b. ADI 2231 West A 2231 West A hat I have persons and that, bas the information, includent	onally examine ed on my inqui is true, accura uding the poss	d and am familiar wry of those individuate and complete. Isibility of fine and im	with the informals immediate am aware that prisonment.	nation submitely responsible there are ser (AREA CODE	tted in this ble for obtaining significant

INSTRUCTIONS FOR FILLING OUT APPLICATION FOR DISCHARGE PERMIT FORM D – PRIMARY INDUSTRIES

All blanks must be filled in when the applications is submitted to the appropriate Regional Office (see map). The form **must be signed** as indicated.

This application is to be completed only for wastewater facilities from which there is a discharge. Include any facility that it is possible to discharge from even if normally there is no discharge. If this form is not adequate for you to describe your existing operation, the sufficient information should be attached so that an evaluation of the discharge can be made.

- 1.00 Name of Facility By what title or name is this facility known locally?
- 1.10 and 1.20 Self-explanatory.
- 1.30 GENERAL INSTRUCTIONS. For some pollutants, you may be required to mark "X" in the "Testing Required" column (column 2-A) and test (sample and analyze) and report the levels of the pollutants in your discharge whether or not you expect them to be present in your discharge. For all others, you must mark "X" in either the "Believe Present" column or the "Believe Absent" column (column 2-B or 2-C) based on your best estimate, and test for those which you believe to be present.

Base your determination that a pollutant is present in or absent from your discharge on your knowledge of your raw materials, maintenance chemicals, intermediate and final products and byproducts and any previous analyses known to you of your effluent or of any similar effluent. (For example, if you manufacture pesticides, you should expect those pesticides to be present in contaminated storm water runoff). If you would expect a pollutant to be present solely as a result of its presence in your intake water, you must mark "Believe Present" but you are not required to analyze for that pollutant. Instead, mark an "X" in the "Intake" column.

REPORTING. All levels must be reported as concentration and as total mass. You may report some or all of the required data by attaching separate sheets of paper instead of filling out Table II if the separate sheets contain all the required information in a format which is consistent with Table II in spacing and in identification of pollutants and columns. (For example, the data system used in your GC/MS analysis may be able to print data in the proper format). Use the following abbreviations in the columns headed "Units". (column 4)

CONCENTRATION	1	MASS	
ppm	parts per million	lbs	pounds
mg/1	milligrams per liter	ton	tons (English tons)
ppb	parts per billion	mg	milligrams
μg/1	micrograms per liter	g	grams
		kg	kilograms
		T	tonnes (metric tons)

If you measure only one daily value, complete only the "Maximum Daily Values" columns and insert "1" into the "Number of Analyses" columns (columns 3-A and 3-D). Missouri Department of Natural Resources may require you to conduct additional analyses to further characterize your discharges.

For composite samples, the daily value is the total mass or average concentration found in a composite sample taken over the operating hours of the facility during a 24 hour period; for grab samples, the daily value is the arithmetic or flow-weighted total mass or average concentration found in a series of at least four grab samples taken over the operating hours of the facility during a 24 hour period.

If you measure more than one daily value for a pollutant, determine the average of all values within the last year and report the concentration and mass under the "Long Term Average Values" column (column 3-C), and the total number of daily values under the "Number of Analyses" columns (column 3-D). Also, determine the average of all daily values taken during each calendar month, and report the highest average under the "Maximum 30 Day Value" column (column 3-B)

SAMPLING. The collection of the samples for the reported analyses should be supervised by a person experienced in performing sampling of industrial wastewater. You may contact your Missouri Department of Natural Resources' Regional Office for detailed guidance on sampling techniques and for answers to specific questions. Any specific requirements contained in the applicable analytical methods should be followed for sample containers, sample preservation, holding times, the collection of duplicate samples, etc. The time when you sample should be representative of your normal operation, to the extent feasible, with all processes that contribute wastewater in normal operation, and with your treatment system operating properly with no system upsets. Samples should be collected from the center of the flow channel, where turbulence is at a maximum, at a site specified in your present permit or at any site adequate for the collection of a representative sample.

Grab and composite samples are defined as follows:

GRAB SAMPLES. An individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.

COMPOSITE SAMPLE. For the purposes of this application, A combination of at least eight sample aliquots of at lease 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.

ANALYSIS. You must use test methods promulgated in 40 CFR Part 136; however, if none has been promulgated for a particular pollutant, you may use any suitable method for measuring the level of the pollutant in your discharge provided that you submit a description of the method or a reference to a published method. Your description should include the sample holding times, preservation techniques and the quality control measures which you used.

If you have two or more substantially identical outfalls, you may request permission from the Missouri Department of Natural Resources to sample and analyze only one outfall and submit the results of the analysis for other substantially identical outfalls. If your request is granted by the Missouri Department of Natural Resources, on a separate sheet attached to the application form, identify which outfall you did test and describe why the outfalls which you did not test are substantially identical to the outfall which you did test.

REPORTING OF INTAKE DATA. You are not required to report data under the "Intake" columns unless you wish to demonstrate your eligibility for a "net" effluent limitation for one or more pollutants, that is, an effluent limitation adjusted by subtracting the average level of the pollutant(s) present in your intake water. National Pollutant Discharge Elimination System (NPDES) regulations allow net limitations only in certain circumstances. To demonstrate your eligibility, under the "Intake" columns report the average of the results of analyses on your intake water (if your water is treated before use, test the water after it is treated), and attach a separate sheet containing the following for each pollutant:

- 1. A statement that the intake water is drawn from the body of water into which the discharge is made. (Otherwise, you are not eligible for net limitations.)
- A statement of the extent to which the level of the pollutant is reduced by treatment of your wastewater. (Your limitations will be adjusted only to the extent that the pollutant is not removed.)
- 3. When applicable, a demonstration of the extent to which the pollutant in the intake vary physically, chemically or biologically from the pollutants contained in your discharge. For example, when the pollutant represents a class of compounds. Your limitations will be adjusted only to the extent that the intake pollutants do not vary from the discharged pollutants.

SPECIFIC INSTRUCTIONS. Table A lists the 34 "primary" industry categories in the left-hand column. For each outfall, if any of your processes that contribute wastewater falls into one of those categories, you must mark "X" in "Testing Required" column (column 2-A) and test for: A. All of the toxic metals, cyanide and total phenols; and B. The organic toxic pollutants contained in the gas chromatography/mass spectrometry (GS/MS) fractions indicated in Table A as applicable to your category, unless you qualify as a small business (see below). The organic toxic pollutants are listed by GC/MS fractions in Table II in 1.30. For example, the Organic Chemicals Industry has an "X" in all four

fractions; therefore, applicants in this category must test for all organic toxic pollutants in 1.30. If you are applying for a permit for a privately owned treatment works, determine your testing requirements on the basis of the industry categories of your contributors. When you determine which industry category you are in to find your testing requirements, you are not determining your category for any other purpose and you are not giving up your right to challenge your inclusion in that category (for example, for deciding whether an effluent guideline is applicable) before your permit is issued.

TABLE A - TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS INDUSTRY CATEGORY

		GC/MS	FRACTION	
INDUSTRY CATEGORY	VOLATILE	ACID	BASE/NEUTRAL	PESTICIDE
Adhesives and sealants	X	X	Χ	-
Aluminum forming	Χ	X	Χ	-
Auto and other laundries	X	X	Χ	Χ
Battery manufacturing	X	-	Χ	_
Coal mining	X	X	Χ	X
Coil coating	X	X	X	_
Copper forming	X	X	Χ	-
Electric and electronic compounds	Χ	Χ	Χ	X
Electroplating	X	Χ	Χ	-
Explosives manufacturing	X	Χ	Χ	-
Foundries	Χ	X	Χ	-
Gum and wood chemicals	Χ	Χ	Χ	X
Inorganic chemicals manufacturing	Χ	X	Χ	-
Iron and steel manufacturing	X	Χ	Χ	-
Leather tanning and finishing	X	Χ	Χ	X
Mechanical products manufacturing	X	Χ	Χ	-
Nonferrous metals manufacturing	X	Χ	Χ	Χ
Ore Mining	Χ	Χ	Χ	X
Organic chemicals manufacturing	X	Χ	Χ	Χ
Paint and ink formulation	Χ	Χ	Χ	X
Pesticides	X	Х	Χ	X
Petroleum refining	X	X	Χ	X
Pharmaceutical preparations	X	Χ	Χ	_
Photographic equipment and supplied	es X	Χ	Χ	X
Plastic and synthetic materials mfg.	Χ	Χ	Χ	X
Plastic processing	X	-	-	_
Porcelain enameling	X	-	Χ	X
Printing and publishing	X	Χ	Χ	Χ
Pulp and paperboard mills	Χ	Χ	Χ	X
Rubber processing	X	Χ	X	_
Soap and detergent manufacturing	X	Χ	Χ	_
Stream electric power plants	X	Χ	Χ	-
Textile mills	X	Χ	X	X
Timber products	Χ	Χ	X	Χ

¹ The pollutants in each fraction are listed in Item 1.30

X = Testing required

^{- =} Testing not required

For all other cases (nonprocess wastewater outfalls and nonrequired GC/MS fractions), you must mark "X" in either the "Believed Present" column (column 2-B) or the "Believed Absent" column (column 2-C) for each pollutant, and test for those you believe present (those marked "X" in column 2-B. If you qualify as a small business (see below) you are exempt from testing for the organic toxic pollutants, listed in Table II. For pollutants in intake water, see discussion above. The "Long Term Average Values" column (column 5-2) are not compulsory but should be filled out if data is available.

Use composite samples for all pollutants in this part, except use grab samples for total phenols and cyanide.

You are required to mark "Testing Required" for dioxin if you use or manufacture one of the following compounds:

- 1. 2,4,5-trichlorophenocy acetic acid (2,4,5-T);
- 2. 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP);
- 3. 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon;
- 4. O,O-dimethyl O-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel);
- 5. Hexachlorophene (HCP).

If you mark "Testing Required" or "Believe Present," you must perform a screening analysis for dioxins, using gas chromatography with an electron capture detector. A TCDD standard for quantification is not required. Describe the results of this analysis in the space provided; for example, "no measurable baseline deflection at the retention time of TCDD" or "a measurable peak within the tolerances of the retention time of TCDD." The permitting authority may require you to perform a quantitative analysis if you report a positive result.

The Effluent Guidelines Division of EPA has collected and analyzed samples from some plants for the pollutants listed in Part C in the course of its BAT guidelines development program. If your effluents were sampled and analyzed as part of this program in the last three years, you may use this data to answer provided that the Missouri Department of Natural Resources approves, and provided that no process change or change in raw materials or operating practices has occurred since the samples were taken that would make the analyses unrepresentative of your current discharge.

SMALL BUSINESS EXEMPTION. If you qualify as a "small business" you are exempt from the reporting requirements for the organic toxic pollutants, listed in Table II. If your facility is a coal mine, and if your probable total annual production is less than 100,000 tons per year, you may submit past production data or estimated future production (such as a schedule of estimated total production under 30 CFR Section 795.14(c)) instead of conducting analysis for the organic toxic pollutants. If your facility is not a coal mine, and if your gross total annual sales for the most recent three years average less than \$100,000 per year, in second quarter 1980 dollars, you may submit sales data for those years instead of conducting analyses for the organic toxic pollutants.

The production or sales data must be for the facility that is the source of the discharge. The data should not be limited to production or sales for the process or processes which contribute to the discharge, unless those are the only processes at your facility. For sales data, in situations involving intra-corporate transfers of goods and services, the transfer price per unit should approximate market prices for those goods and services as closely as possible. Sales figures for years after 1980 should be indexed to the second quarter of 1980 by using the gross national product price deflator (second quarter of 1980 = 100). This index is available in "National Income and Product Accounts of the United States" (Department of Commerce, Bureau of Economic Analysis).

- 2.00 A. You may not claim this information as confidential; however, you do not have to distinguish between use or production of the pollutants or list the amounts. Under NPDES regulations your permit will contain limits to control all pollutants you report in answer to this question, as well as all pollutants reported in item 1.30 to 2.00 B at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to Missouri Department of Natural Resources if you, in the future, begin or expect that you will begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which you did not report here. Your permit may be modified at that time if necessary to control that pollutant.
 - B. For this item, consider only those variations which may result in concentrations of pollutants in effluents which may exceed two times the maximum values you reported in 1.30. These variations may be part of your routine operations or part of your regular cleaning cycles.

Under NPDES regulations your permit will contain limits to control any pollutant you report in answer to this question at levels exceeding the technology-based limits appropriate to your facility. Your permit will also require you to report to the Missouri Department of Natural Resources if you know or have reason to believe that any activity has occurred or will occur which would make your discharge of any toxic pollutant five times the maximum values reported in 1.30 or in this item, and your permit may be modified at that time if necessary to control the pollutant.

Do not consider variations which are the result of bypasses or upsets. Increased levels of pollutants that are discharged as a result of bypasses or upsets are regulated separately under NPDES regulations.

C. Examples of the types of variations to be described here include:

Changes in raw or intermediate materials;

Changes in process equipment or materials;

Changes in product lines:

Significant chemical reactions between pollutants in waste streams; and

Significant variation in removal efficiencies of pollution control equipment.

You may indicate other types of variations as well, except those which are the result of bypasses or upsets. Missouri Department of Natural Resources may require you to further investigate or document variations you report here.

Base your prediction of expected levels of these pollutants upon your knowledge of your processes, raw materials, past and projected product ranges, etc., or upon any testing conducted upon your effluents that indicates the range of variability that can be expected in your effluent over the next five years.

EXAMPLE: Outfall 001 discharges water used to clean six 500 gallon tanks. These tanks are used for formulation of dispersions of synthetic resins in water (adhesives). Use of toxic pollutants that can be expected in the next five years is:

- 1. Copper acetate inhibitor, ½, lb. per tank;
- 2. Dibutyl phthalate, 50 lbs. per tank;
- 3. Toulene, 5 lbs. per tank; and
- 4. Antimony oxide, 1 lb. per tank.

Based on normal cleaning an average of 1 percent and a maximum of 3 percent of the contents of each tank is collected and discharged once every two weeks in the 150 gallons of water used for cleaning. Treatment (pH adjustment, flocculation, filtration) removes 85 percent of metals and 50 percent of organic compounds.

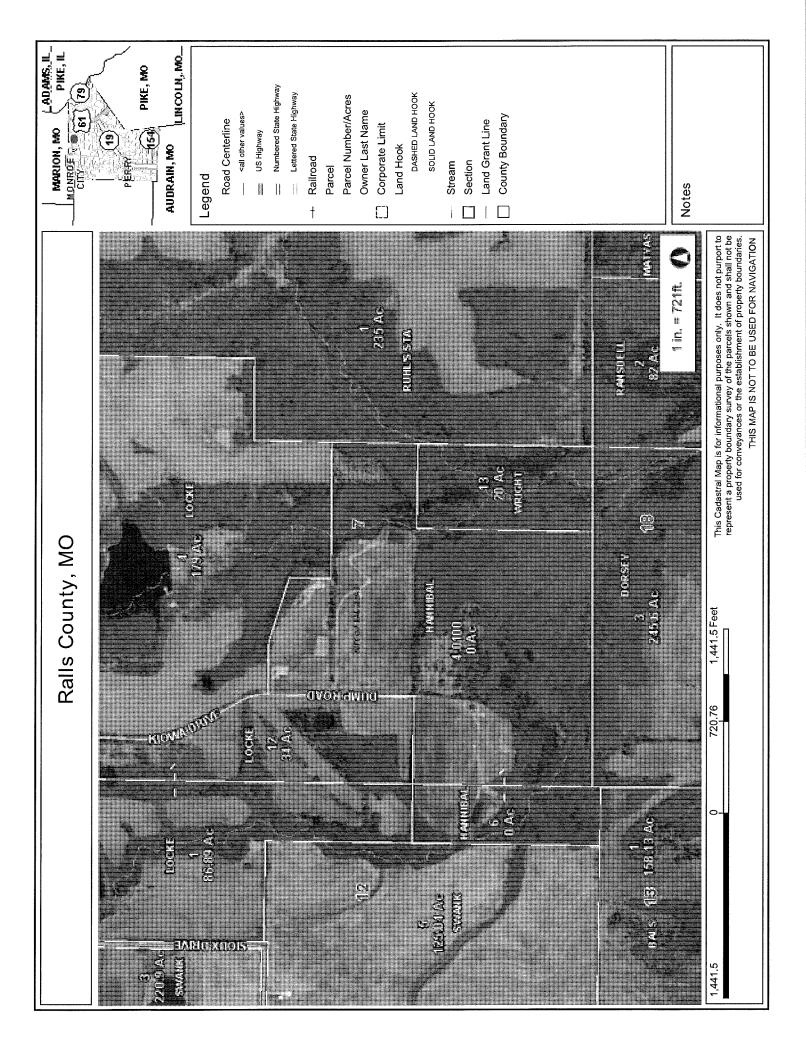
3.00 Self-explanatory.

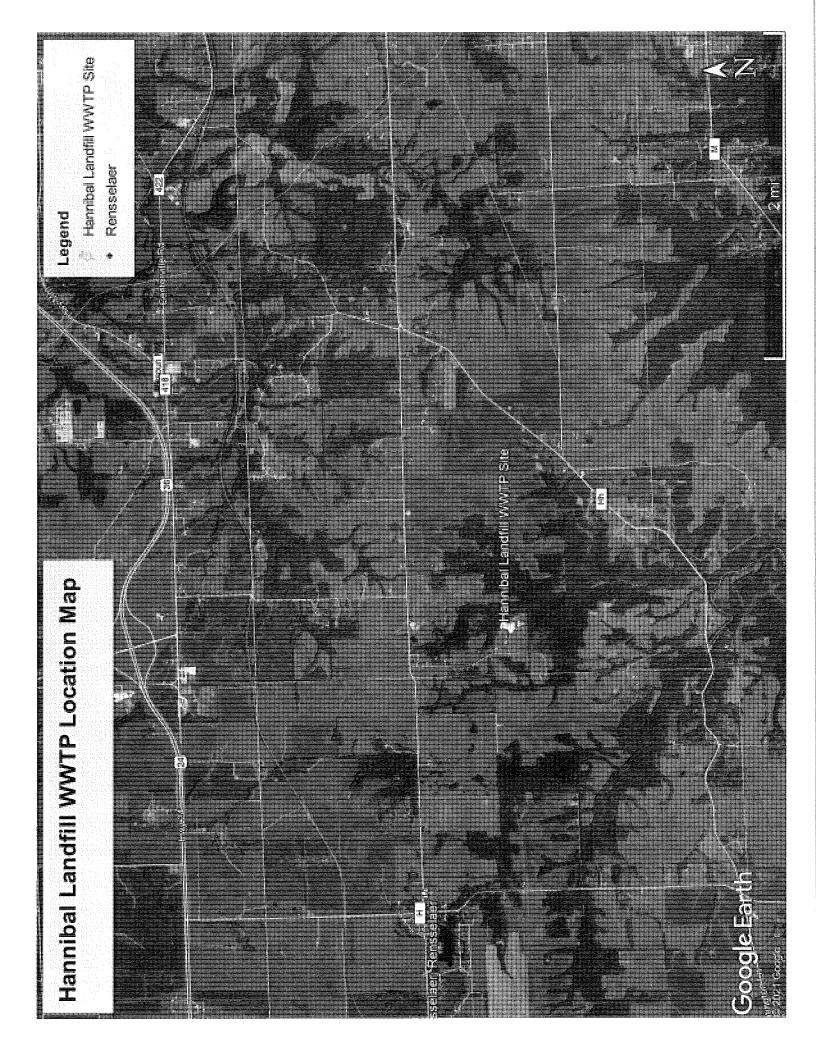
4.00 The Federal Clean Water Act provides for severe penalties for submitting false information on this application form.

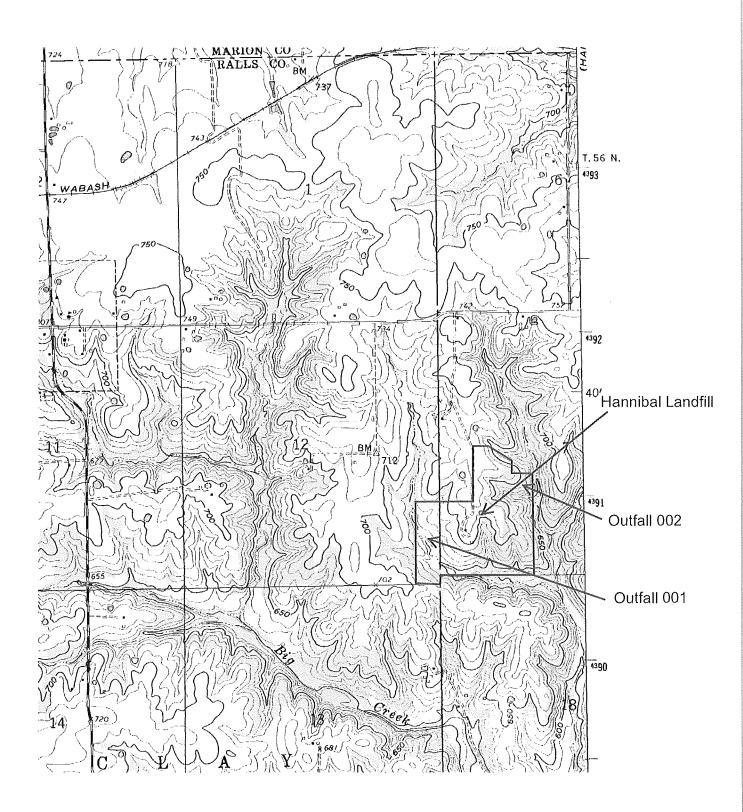
Section 309(c)(2) of the Federal Clean Water Act provides that "Any person who knowingly makes any false statement, representation, or certification in any application..... shall upon conviction, be punished by a fine of no more than \$10,000 or by imprisonment for not more than six months, or both."

STATE REGULATIONS REQUIRE THE CERTIFICATION TO BE SIGNED AS FOLLOWS

- 1. For a corporation, by an officer of at least the level of plant manager;
- 2. For a partnership or sole proprietorship, by a general partner or the proprietor; or
- 3. For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking public official.









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Missouri Department of Natural Resources

Water Protection Program

Water Pollution Control Branch TO:

P.O. Box 176

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Date: 1/25/2022 Job No: 18-1005

Attention:

Operating Permits Section

Regarding:

City of Hannibal Landfill NPDES Permit

Renewal Forms and Payment

Jefferson City, I	MO 65102-0176			
We are sending you:	x Attached	Under separate cover V	[A	the following items:
Shop drawings	Prints	Plans	Samples	Specifications
Copy of letter				
COPIES DATE OR NO.		DESC	CRIPTION	
1 1/25/2022	Form A – A ₁	pplication for Non-Domestic F		
1 1/25/2022	Check for Pe	ermit Fee		
THESE ARE TRANSM	TTTED AS CHE	COVED DELOW:		
x For approval	II IED AS CHE	No exceptions taken	Resubmit	copies for approval
For your use		Exceptions taken as noted	Submit	copies for distribution
		Returned for correction	Return	corrected prints
As requested	1	Returned for correction	Ketum	_ corrected prints
x For review and	I comment			
For bids due			Prints r	eturned after loan to us
Remarks:				
		MO-0112721 expired on June 30, ing on January 4, 2022. To satisf		
		review and let us know if there are		
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		10 11 2 11 2022		
		JAN 3 1 2022		
		Water Protection Progr	am	•
If enclosures are not as a	noted, kindly not	ify us at once.		
	•		fark C. Bross, PE	

Revised 12/20/2013

Your trusted solution.