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-0113891

Owner: Lemons Landfill, LLC

Address: 1700 Holzer Drive, Arnold MO 63010

Continuing Authority: Same as above Address: Same as above

Facility Name: Lemons Landfill East

Facility Address: 15250 Old Bloomfield Road, Dexter MO 63841

Legal Description: See following page UTM Coordinates: See following page

Receiving Stream:

First Classified Stream and ID:

USGS Basin & Sub-watershed No.: See following page

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

FACILITY DESCRIPTION

Active Landfill; SIC #4953 NAICS #562212. Stormwater only. This facility is a permitted sanitary landfill and accepts solid waste as outlined in 10 CSR 80-3.010(2)(A). This facility is also used for storage, fueling, and maintenance of heavy vehicles. This facility does not require a certified wastewater operator. Leachate and domestic waste are sent off-site for disposal, currently the facility utilizes Bloomfield Wastewater Treatment Facility, permit # MO-0050326 as their primary facility for leachate disposal.

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).

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.

January 1, 2022
Effective Date

March 31, 2026

Expiration Date

Chris Wieberg, Director, Water Protection Program

Permit No. MO-0113891 Page 2 of 8

FACILITY DESCRIPTION (CONTINUED)

OUTFALL #001 - Stormwater

Stormwater from the northern portion of the facility; settling basin

Legal Description: SE¹/₄, Sec.2, T25N, R10E, Stoddard County

UTM Coordinates: X = 773664, Y = 4080894 Receiving Waterbody: Tributary to Blackshire Branch

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

USGS Basin & Sub-watershed No.: Little River Ditches (08020204-0502)

Design Flow: 4.2 MGD

OUTFALL #002 – Stormwater

Stormwater from the southwest portion of the facility; settling basin

Legal Description: SW¹/₄, NE¹/₄, Sec.1, T25N, R10E, Stoddard County

UTM Coordinates: X = 773064, Y = 4079862

Receiving Waterbody: Tributary to Lateral #2 Main Ditch

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

USGS Basin & Sub-watershed No.: Little River Ditches (08020204-0502)

Design Flow: 4.1 MGD

OUTFALL #003 – Stormwater

Stormwater from the southeast portion of the facility; settling basin

Legal Description: NE¼, NE¼, Sec.11, T25N, R10E, Stoddard County

UTM Coordinates: X = 773639, Y = 4080421

Receiving Waterbody: Tributary to Lateral #2 Main Ditch

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

USGS Basin & Sub-watershed No.: Little River Ditches (08020204-0502)

Design Flow: 6.2 MGD

 $Outfall\,\#004-Stormwater$

Stormwater from the northern portion of the facility; settling basin

Legal Description: SW¹/₄, NE¹/₄, Sec.2, T25N, R10E, Stoddard County

UTM Coordinates: X = 238041, Y = 4081068 Receiving Waterbody: Tributary to Blackshire Branch

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

USGS Basin & Sub-watershed No.: Little River Ditches (08020204-0502)

Design Flow: 1.11 MGD

Permit No. MO-0113891 Page 3 of 8

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

OUTFALL #001, #002, #003, #004

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 $\underline{January 1, 2022}$ and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below:

		FINAL LIMIT		BENCH-	MONITORING R	MONITORING REQUIREMENTS∞	
EFFLUENT PARAMETERS	Units	DAILY	MONTHLY	MARKS	MEASUREMENT	SAMPLE	
P		MAXIMUM	AVERAGE		Frequency◊	Түре	
PHYSICAL		_					
Flow	MGD	*		-	once/quarter	24 hr. estimate	
Precipitation	inches	*		-	once/quarter	measured	
CONVENTIONAL							
Chemical Oxygen Demand	mg/L	**		120	once/quarter	grab	
Oil & Grease	mg/L	**		10	once/quarter	grab	
pH Ω	SU	6.5 to 9.0		-	once/quarter	grab	
Settleable Solids	mL/L/hr	**		1.5	once/quarter	grab	
Total Suspended Solids	mg/L	72		-	once/quarter	grab	
METALS							
Arsenic, Total Recoverable	μg/L	**		20	once/quarter	grab	
Barium, Total Recoverable	μg/L	*		-	once/quarter	grab	
Copper, Total Recoverable	μg/L	**		22	once/quarter	grab	
Iron, Total Recoverable	μg/L	4000		-	once/quarter	grab	
Manganese, Total Recoverable	μg/L	*		-	once/quarter	grab	
Selenium, Total Recoverable €	μg/L	*		-	once/quarter	grab	
Silver, Total Recoverable	μg/L	*		-	once/quarter	grab	
Thallium, Total Recoverable Φ	μg/L	*		-	once/quarter	grab	
Zinc, Total Recoverable	μg/L	**		181	once/quarter	grab	
NUTRIENTS	, ,				•	Ü	
Ammonia as N	mg/L	*		-	once/quarter	grab	
Phosphorus, Total (TP)	mg/L	*		-	once/quarter	grab	
OTHER						Ü	
Benzene	μg/L	*		-	once/quarter	grab	
Ethylbenzene	μg/L	*		-	once/quarter	grab	
Fluoride	mg/L	*		-	once/quarter	grab	

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE <u>APRIL 28, 2022</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

Permit No. MO-0113891 Page 4 of 8

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (CONTINUED)

OUTFALL #001, #002, #003, #004 Stormwater Only 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 <u>January 1, 2022</u> and remain in effect until expiration of the permit. Discharges shall be controlled, limited, and monitored by the facility as specified below:

		FINAL LIMITATIONS		BENCH-	MONITORING REQUIREMENTS∞	
EFFLUENT PARAMETERS	Units	DAILY	MONTHLY	MARKS	MEASUREMENT	SAMPLE
		MAXIMUM	AVERAGE	WAKKS	Frequency	Type
METALS						
Antimony, Total Recoverable	μg/L	*		-	once/year	grab
Beryllium, Total Recoverable	μg/L	*		-	once/year	grab
Cadmium, Total Recoverable	μg/L	*		-	once/year	grab
Chromium (III), Total Recoverable	μg/L	*		-	once/year	grab
Chromium (VI), Dissolved Σ	μg/L	*		-	once/year	grab
Lead, Total Recoverable	μg/L	*		-	once/year	grab
Mercury, Total Recoverable	μg/L	*		-	once/year	grab
Nickel, Total Recoverable	μg/L	*		_	once/year	grab

MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u>; THE FIRST REPORT IS DUE <u>JANUARY 28, 2023</u>. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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 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.
- Φ This permit establishes 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.
- Σ This permit establishes 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. The data obtained utilizing this method should have a detection limit below 5 μ g/L.

Quarterly sampling

MINIMUM QUARTERLY SAMPLING REQUIREMENTS						
QUARTER	MONTHS QUARTERLY EFFLUENT PARAMETERS RE					
First	January, February, March	Sample at least once during any month of the quarter	April 28 th			
Second	April, May, June	Sample at least once during any month of the quarter	July 28 th			
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 28 th			

Permit No. MO-0113891 Page 5 of 8

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) Should 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.
- 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).
- 3. Any discharge not meeting permitted limits may be pumped and hauled to an accepting wastewater treatment facility, or otherwise properly disposed.
- 4. Electronic Discharge Monitoring Report (eDMR) Submission System. Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, 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.
- 5. 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 (SWPPP) 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 (or 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) 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. Throughout coverage under this permit, the facility must perform ongoing SWPPP review and revision to incorporate any site condition changes.
 - (1) Operational deficiencies must be corrected within seven (7) calendar days.
 - (2) Minor structural deficiencies must be corrected within fourteen (14) calendar days.
 - (3) Major structural deficiencies (deficiencies projected to take longer than 14 days to correct) 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 should consider temporary structures to control stormwater runoff. The facility shall correct the major structural deficiency as soon as reasonably achievable.

Permit No. MO-0113891 Page 6 of 8

C. SPECIAL CONDITIONS (CONTINUED)

- (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.
- (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.
- (d) 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.
- 6. 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 should 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 should be retained on-site.
 - (e) Provide sediment and erosion control sufficient to prevent or minimize sediment loss off of the property, and to protect embankments from erosion.
 - (f) 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.
 - (g) Fire protection test water 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, source water, effluent destination, BMPs, etc.) in the application for renewal. If fire protection test 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.).
- 7. 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.

Permit No. MO-0113891 Page 7 of 8

C. SPECIAL CONDITIONS (CONTINUED)

8. Petroleum Secondary Containment.

Before releasing water accumulated in petroleum secondary containment areas, it must be examined for hydrocarbon odor and presence of sheen to protect the general criteria found at 10 CSR 20-7.031(4).

- (a) If odor or sheen is found, the water shall not be discharged without treatment and shall be disposed of in accordance with legally approved methods, such as being sent to an accepting wastewater treatment facility.
- (b) If the facility wishes to discharge the accumulated stormwater with hydrocarbon odor or presence of sheen, the water shall be treated using an appropriate removal method. Following treatment and before release, the water shall be tested for oil and grease, benzene, toluene, ethylbenzene, and xylene using 40 CFR part 136 methods. All pollutant levels must be below the most protective, applicable standards for the receiving stream, found in 10 CSR 20-7.031 Table A before discharge is authorized. Records of all testing and treatment of water accumulated in secondary containment shall be available on demand to the Department. Electronic records retention is acceptable.
- 9. 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.
- 10. All outfalls must be clearly marked in the field.
- 11. 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.
- 12. 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.
 - (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).
- 13. Failure to pay fees associated with this permit is a violation of the Missouri Clean Water Law (644.055 RSMo).
- 14. All records required by this permit may be maintained electronically per 432.255 RSMo. These records should be maintained in a searchable format.
- 15. 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.

Permit No. MO-0113891 Page 8 of 8

C. SPECIAL CONDITIONS (CONTINUED)

- 16. 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. If the form names have changed, the facility should ensure they are submitting the correct forms as required by regulation.
 - (c) 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)
 - (d) The facility may use the electronic submission system to submit the application to the Program, if available.
 - (e) This facility must submit all corrective action reports completed for the last permit term if a benchmark exceedance occurred.

D. LAND DISTURBANCE

The permittee will not be required to procure a separate general permit (MO-RA000000) for land disturbance activities which discharge through outfalls authorized in this permit. If land disturbance activities discharge to any location other than through a permitted outfall, a separate MORA general permit is required. The general permit does not cover disturbance of contaminated soils so a modification of this site specific permit may be required. For land disturbance activities which discharge through outfalls authorized in this permit, the permittee shall select, install, use, operate and maintain appropriate BMPs for the permitted site. The following manuals are acceptable resources for the selection of appropriate BMPs. *Developing Your Stormwater Pollution Prevention Plan: A Guide for Construction Sites*, (Document number EPA 833-R-06-004) published by the United States Environmental Protection Agency (USEPA) in May 2007. This manual as well as other information, including examples of construction SWPPPs, is available at the USEPA internet site at https://www3.epa.gov/npdes/pubs/industrial_swppp_guide.pdf; and the latest version of *Protecting Water Quality: A field guide to erosion, sediment and stormwater best management practices for development sites in Missouri*, published by the Missouri Department of Natural Resources. This manual is available on the Department's internet site as: https://www.dnr.mo.gov/env/wpp/wpcp-guide.htm.

E. 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 should 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-0113891 LEMONS LANDFILL EAST

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: Categorical Industrial: Stormwater, >1 MGD

 SIC Code(s):
 4953

 NAICS Code(s):
 562212

 Application Date:
 04/30/2021

 Modification Date:
 06/01/2020

 Expiration Date:
 03/31/2021

 Last Inspection:
 03/17/2020

FACILITY DESCRIPTION:

Lemons Landfill East is an active municipal solid waste landfill. The facility is also used for storage, fueling, and maintenance of heavy vehicles. The entire area permitted for solid waste disposal activities is 283 acres, with 106.6 acres actually used for waste disposal. The facility also accepts special waste as defined in 10 CSR 80-2.010. Wastewater is not authorized for discharge or land application under this permit; leachate is pumped and hauled to an appropriate wastewater treatment facility.

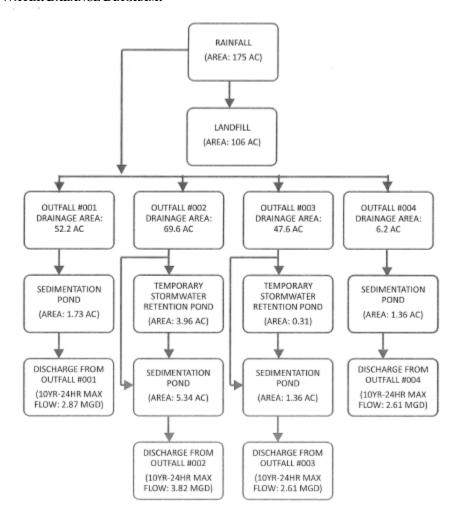
PERMITTED FEATURES TABLE:

OUTFALL	AVERAGE FLOW (MGD)	DESIGN FLOW	TREATMENT LEVEL	EFFLUENT TYPE
#001	Dependent on Precipitation	4.2 MGD	BMPs, Settling Basin	Industrial & Land Disturbance Stormwater
#002	Dependent on Precipitation	4.1 MGD	BMPs, Settling Basin	Industrial & Land Disturbance Stormwater
#003	Dependent on Precipitation	6.2 MGD	BMPs, Settling Basin	Industrial & Land Disturbance Stormwater
#004	Dependent on Precipitation	1.11 MGD	BMPs, Settling Basin	Industrial & Land Disturbance Stormwater





WATER BALANCE DIAGRAM:



FACILITY PERFORMANCE HISTORY & COMMENTS:

The electronic discharge monitoring reports were reviewed for the last five years. Exceedances of benchmarks and limits were noted for Arsenic, COD, Copper, Iron, and TSS. Additionally, values for chromium (VI) were reported at levels above the applicable water quality standards. The last inspection was performed in 2020 by MDNR's Southeast Regional Office. The following violation was cited. During the monitoring periods indicated by DMR dates listed previously in this report on Table 1, the Lemons Landfill East site had failed to comply with the effluent limits for TSS contained in Table A-1. MDNR's Waste Management Program conducted an inspection on January 14, 2021. The facility was found to be in compliance based upon the observations made at the time of the inspection.

CONTINUING AUTHORITY:

The Missouri Secretary of State continuing authority charter number for this facility is FL0016228; this number was verified by the permit writer to be associated with the facility and precisely matches the continuing authority reported by the facility.

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 has the following permits: Missouri Solid Waste Management permit #0120710.

PART II. RECEIVING WATERBODY INFORMATION

RECEIVING WATERBODY TABLE:

OUTFALL	WATERBODY NAME	CLASS	WBID	DESIGNATED USES	DISTANCE TO SEGMENT	12-digit HUC
	Tributary to Blackshire Branch	n/a	n/a	GEN	0.0 mi	
#001	100K Extent-Remaining Streams	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.26 mi	
	Tributary to Lateral #2 Main Ditch	n/a	n/a	GEN	0.0 mi	
#002	100K Extent-Remaining Streams	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.26 mi	08020204-0502 Little River
	Tributary to Lateral #2 Main Ditch	n/a	n/a	GEN	0.0 mi	Ditches
#003	100K Extent-Remaining Streams	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.26 mi	
	Tributary to Blackshire Branch	n/a	n/a	GEN	0.0 mi	
#004	100K Extent-Remaining Streams	С	3960	GEN, HHP, IRR, LWW, SCR, WBC-B, WWH (ALP)	0.26 mi	

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 Extant-Remaining Streams or newer; data can be found as an ArcGIS shapefile on MSDIS at try://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://dnr.mo.gov/env/wpp/watersheds.htm has additional information about the watersheds in Missouri

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 – general criteria; acute toxicity criteria applicable to all waters even those lacking designated uses

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. Effluent limitations may not be applicable to certain waters of the state, facility type, or discharge type. In these cases, effluent limitations may be based on a best professional judgment evaluation. The best professional judgment evaluation will take site specific conditions into consideration; including facility type, the receiving water body classification, and type of discharge. Stormwater discharges and land application sites are not directly subject to limitations found in 10 CSR 20-7.015, but may be subject to limitations determined by the best professional judgment evaluation. Effluent limitation derivations are discussed in PART IV: EFFLUENTS LIMITS DETERMINATIONS.

✓ All other waters; identified at 10 CSR 20-7.015(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/mqa/ The Department's quality data database was reviewed. 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. http://dnr.mo.gov/env/wpp/tmdl/ 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. http://dnr.mo.gov/env/wpp/waterquality/303d/303d.htm 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.

✓ The permit writer has noted no upstream or downstream impairments near this facility.

WATERBODY MONITORING REQUIREMENTS:

✓ No waterbody monitoring requirements are recommended at this time.

WATERBODY MIXING CONSIDERATIONS:

For all 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.

PART III. RATIONALE AND DERIVATION OF PERMIT CONDITIONS

ANTI-BACKSLIDING:

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.
 - ✓ Ethylbenzene was removed as it was determined to be unnecessary to detect BMP failures. The permit writer used best professional judgement to determine that Benzene and Oil & Grease were sufficient enough and would detect failures of stormwater BMPs at all outfalls. Benzene has the lowest water quality standard for the protection of human health, and therefore will be the most protective to monitor for. Oil & Grease is a broad laboratory test which will detect most of the heavier petroleum products and waxes. It often does not correctly evaluate the lighter pollutants such as Benzene, and thus Benzene is retained in addition to Oil and Grease.
 - ✓ 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.

ANTIDEGRADATION REVIEW:

Process water 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. 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 http://dnr.mo.gov/env/wpp/permits/antideg-implementation.htm 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.

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 should 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 permittee 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:

example, M for monthly, O for quarterly, A for annual, and others as identified.

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 historic 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

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: http://dnr.mo.gov/forms/780-2692-f.pdf. 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.

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.

Additional information: http://extension.missouri.edu/main/DisplayCategory.aspx?C=74 (WQ422 through WQ449).

✓ 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).

FEDERAL EFFLUENT LIMITATION GUIDELINES:

Effluent Limitation Guidelines, or ELGs, are found at 40 CFR 400-499. 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. Should Reasonable Potential be 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, the permit writer has completed 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). 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.

Requirements for these types of operations are found in 10 CSR 20-6.015; authority to regulate these activities is from 644.026 RSMo.

✓ 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.

✓ Applicable; this permit provides coverage for land disturbance activities. These activities have SWPPP requirements and may be combined with the standard site SWPPP. Land disturbance BMPs should be designed to control the expected peak discharges, the University of Missouri has design storm events for the 25 year 24 hour storm; these can be found at: http://ag3.agebb.missouri.edu/design_storm/comparison_reports/20191117 25yr 24hr comparison_table.htm; to calculate peak discharges, the website https://www.lmnoeng.com/Hydrology/rational.php has the rational equation to calculate expected discharge volume from the peak storm events.

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/geology/wrc/majorwaterusers.htm All major water users are required by law to register water use annually (Missouri Revised Statues Chapter 256.400 Geology, Water Resources and Geodetic Survey Section). https://dnr.mo.gov/pubs/pub2236.htm

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

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 permit writer 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 should 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.

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 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/env/wpp/rules/documents/nutrient-implementation-plan-final-072618.pdf 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).

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

OIL/WATER SEPARATORS:

Oil water separator (OWS) tank systems are frequently found at industrial sites where process water and stormwater may contain oils and greases, oily wastewaters, or other immiscible liquids requiring separation. Food industry discharges typically require pretreatment prior to discharge to municipally owned treatment works. Per 10 CSR 26-2.010(2)(B), all oil water separator tanks must be operated according to manufacturer's specifications and authorized in NPDES permits per 10 CSR 26-2.010(2) or may be regulated as a petroleum tank.

✓ Not applicable; the facility has not disclosed the use of any oil water separators they wish to include under the NPDES permit at this facility and therefore oil water separator tanks are not authorized by this permit.

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.

PERMIT SHIELD:

Enforceable conditions, generally called permit shield, are found under CWA section 402(k) or Section 644.051.16, RSMo. All permits issued by the State of Missouri protect both the permittee and issuer from legal intervention, but only when all discharges and activities are clearly divulged by the facility; and when the issuer evaluates all discharges and activities during the renewal (or modification) process. During the facility review of the permit draft, it is both the facility's and Department's responsibility to ensure all types of effluent the facility wishes to discharge, or qualified activities the facility wishes to perform (such as land application), are authorized in some manner. Authorization may be either through an outfall established in the permit under the facility description heading, or after reviewing the fact sheet which should include a mention of the discharge (or activity) and endorsing the discharge (or activity) as de minimis or through some other described determination. The Department must issue a legally binding and enforceable permit, which can only be completed through a thorough review from both parties.

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.

✓ Applicable; this entity reported wastewater is discharged to a POTW and falls under a category requiring 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 in zones of initial dilution, and chronic toxicity criteria may be exceeded by permit in mixing zones. If the permit writer determines any given pollutant has the reasonable potential to cause or contribute to an in-stream excursion above the WQS, 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).

Permit writers use reasonable potential determinations (RPD) as provided in Sections 3.1.2, 3.1.3, and 3.2 of the TSD. An RPD consists of evaluating visual observations, non-numeric information, or small amounts of numerical data (such as 1 data point supplied

in the application). A stormwater RPD consists of reviewing application data and/or discharge monitoring data and comparing those data to narrative or numeric water quality criteria. RPD decisions are based on minimal numeric samples, the type of effluent proposed for discharge, or the unavailability of numerical RPA for a parameter, such as pH, or oil and grease. Absent 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). Permit writers use the Department's permit writer's manual (https://dnr.mo.gov/env/wpp/permits/manual/permit-manual.htm), the EPA's permit writer's manual (https://www.epa.gov/npdes/npdes-permit-writers-manual), program policies, and best professional judgment. For each parameter in each permit, the permit writer carefully considers all applicable information regarding: technology based effluent limitations, effluent limitation guidelines, water quality standards, inspection reports, stream flows and uses, and all applicable site specific information and data gathered by the facility through discharge monitoring reports and renewal (or new) application sampling. Best professional judgment is based on the experience of the permit writer, cohorts in the Department and resources at the EPA, research, and maintaining continuity of permits if necessary. For stormwater permits, the permit writer is required per 10 CSR 6.200(6)(B)2 to consider: A. application and other information supplied by the facility; B. effluent guidelines; C. best professional judgment of the permit writer; D. water quality; and E. BMPs. Part IV provides specific decisions related to this permit.

Secondly, Permit writers use mathematical reasonable potential analysis (RPA) using the Technical Support Document for Water Quality Based Toxics Control (TSD) methods (EPA/505/2-90-001) as found in Section 3.3.2 using an RPA calculator. RPAs cannot be performed on stormwater as the flow is intermittent.

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 disclosure 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/forms/#WaterPollution

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 should have 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/or 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 to permit writers on 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.

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. http://dnr.mo.gov/env/esp/spillbill.htm

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.

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.

✓ 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 should be reviewed by the facility to ascertain compliance with this permit, state regulations, state statues, 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 writer 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. The permit writer also evaluates other similar permits 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 should 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 at the discretion of the permit writer, 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):

In accordance with 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 https://www.epa.gov/sites/production/files/2015-11/documents/swppp_guide_industrial_2015.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 should 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.

Areas which should 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 should be formulated to best control the amount of pollutant being released and discharged by each activity or source. This should 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 should be taken to repair, improve, or replace the failing BMP. This internal evaluation is required at least once per month but should 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 (http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs which are reasonable and cost effective. The AA evaluation should 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 discharge" or "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 should 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/forms/#WaterPollution

✓ 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 and/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 a 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. 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 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: http://dnr.mo.gov/forms/780-1774-f.pdf Single family residential septic systems and nonresidential 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)).

✓ Not applicable; the facility has not submitted materials indicating the facility 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 §8644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §8644.006 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.

✓ 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.

PART IV. EFFLUENT LIMIT DETERMINATIONS

OUTFALLS #001 - #004 - STORMWATER OUTFALLS

EFFLUENT LIMITATIONS TABLE:

PARAMETERS	Unit	Daily Maximum Limit	BENCH- MARK	PREVIOUS PERMIT LIMITS	Minimum Sampling Frequency	REPORTING FREQUENCY	SAMPLE TYPE
PHYSICAL							
FLOW	MGD	*	1	SAME	ONCE/QUARTER	ONCE/QUARTER	24 HR. ESTIMATE
PRECIPITATION	inches	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	24 нг. тот
CONVENTIONAL							
COD	mg/L	**	120	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
OIL & GREASE	mg/L	**	10	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
PH [†]	SU	6.5-9.0	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
SETTLEABLE SOLIDS	mL/L/hr	**	1.5	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
TSS	mg/L	72	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
METALS							
ANTIMONY, TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
ARSENIC, TR	μg/L	**	20	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
BARIUM, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
BERYLLIUM, TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
CADMIUM, TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
CHROMIUM (III), TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
CHROMIUM (VI), TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
COPPER, TR	μg/L	**	22	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
IRON, TR	μg/L	4000	-	**/4000	ONCE/QUARTER	ONCE/QUARTER	GRAB
LEAD, TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
MANGANESE, TR	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
MERCURY, TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
NICKEL, TR	μg/L	*	-	SAME	ONCE/YEAR	ONCE/YEAR	GRAB
SELENIUM, TR	μg/L	*	-	SAME	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
ZINC, TR	μg/L	**	181	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
Nutrients							
Ammonia as N	mg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
PHOSPHORUS, TOTAL (TP)	mg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
OTHER							
BENZENE	μg/L	*	-	SAME	ONCE/QUARTER	ONCE/QUARTER	GRAB
ETHYLBENZENE				RE	MOVED		
FLUORIDE	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

parameter requirements at end of SOC final

total recoverable

DERIVATION AND DISCUSSION OF LIMITS:

PHYSICAL:

Flow

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

Precipitation

Monitoring only requirement; measuring the amount of precipitation [(10 CSR 20-6.200(2)(C)1.E(VI)] during an event is necessary to ensure adequate stormwater management exists at the site. Knowing the amount of potential stormwater runoff can provide the permittee a better understanding of any specific control measures be employed to ensure protection of water quality. The facility will provide the 24 hour accumulation value of precipitation from the day of sampling the other parameters.

CONVENTIONAL:

Chemical Oxygen Demand (COD)

Monitoring with a daily maximum benchmark of 120 mg/L continued from previous permit. The benchmark value falls within the range of values implemented in other permits that have similar industrial activities. There is no water quality standards for COD; however, increased oxygen demand may impact instream water quality. COD is also a valuable indicator parameter. COD monitoring allows the permittee to identify increases in COD that may indicate materials/chemicals coming into contact with stormwater that cause an increase in oxygen demand. Increases in COD may indicate a need for maintenance or improvement of BMPs.

Oil & Grease

Monitoring with a daily maximum benchmark of 10 mg/L; continued from the previous permit per permit writer's best professional judgment. 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 facility reported from 0.5 to 5.1 mg/L in the last permit. 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 even if data provided are below the benchmark.

pΗ

6.5 to 9.0 SU, continued from the previous permit. The Water Quality Standard at 10 CSR 20-7.031(5)(E) states water contaminants shall not cause pH to be outside the range of 6.5 to 9.0 standard pH units.

Settleable Solids (SS)

Monitoring with a daily maximum benchmark of 1.5 mL/L/hour continued from the previous permit. 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)

Daily maximum limit of 72 mg/L, per the wasteload assigned in the 2008 EPA approved TMDL for sediment in Lateral #2 Main Ditch. The TMDL can be viewed at www.dnr.mo.gov/env/wpp/tmdl/3105-lat2-main-ditch-record.htm. Per the TMDL, The Lemons Landfill East facility (MO-0113891) discharges to unclassified tributaries of Lateral #2 Main Ditch above the impaired segment. According to discharge monitoring reports, the facility discharges in response to storm events and is not anticipated to discharge during critical low-flow conditions (95 percent flow exceedance). However, during and immediately following storm events the facility has reasonable potential to cause or contribute to the sediment impairment in Lateral #2 Main Ditch. The

amount and extent of impact on Lateral #2 Main Ditch depends on the volume of sediment discharged, in-stream assimilative capacity and any settling that may occur on-site or downstream of the facility.

Sediment results from soil erosion or erosion of waste materials or stockpiles and includes silt, sand, and gravel. Missouri has no numeric standard for sediment. Excessive deposits of sediment in waters of the state are interpreted as violations of the general (narrative) criteria of the Water Quality Standards found at 10 CSR 20-7.031(4). Sediment discharges can negatively impact aquatic life habitat. TSS is also a valuable indicator parameter. TSS monitoring allows the permittee to identify increases in TSS that may indicate 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.

A waste load allocation has been derived in the TMDL for the outfalls of this facility. The permit writer converted the limits to a concentration based limit (mg/L), and removed the pounds per day limits applied in the previous permit cycle. As the discharge is stormwater and the discharge volumes are estimated and variable, concentration based limits are a more reasonable way to limit the discharge. These concentration based limits are considered protective of the receiving waterbody and are consistent with the assumptions and requirements of the TMDL.

The TMDL assigns Lemons Landfill a WLA of 4.38 tons/day, which is 8760 lbs/day. The TMDL also assigns a monthly average limit which is not applied in this permit as the discharge is stormwater only.

Tons per day = (flow in cfs) (concentration in mg/L) (0.0026975 [a conversion factor]) = Wasteload Allocation (WLA)

WLAs for Lemons Landfill East in the Lateral #2 Main Ditch Watershed

Facility	Permit number	WLA (tons per day) d/w/m*
Lemons Landfill East (Outfall 01)	MO-0113891	1.27/NA/ 0.95
Lemons Landfill East (Outfall 02)	MO-0113891	1.247/NA/0.93
Lemons Landfill East (Outfall 03)	MO-0113891	1.87/NA/1.4
Lemons Landfill East (Outfall 04)	MO-0113891	0.34/NA/0.25

^{*}Permit limits based on design loads where d=daily, w=weekly, m=monthly average.

Daily Maximum Limits For Each Outfall

Outfall	DESIGN FLOW MGD	% OF TOTAL FLOW	Mass Loading lbs/day	Mass Loading tons/day	Concentration limits [^] mg/L
001	4.2	29	2537	1.2687	72
002	4.1	28	2477	1.2385	72
003	6.2	43	3746	1.8728	72
004	1.11	7	670	0.3352	72
TOTAL	15.6	100	9430	4.72	

Mass loading = % Total flow/Total design flow.

See calculations below

Outfall #001- Waste Load Allocation (WLA)

Design flow is 4.2 MGD

Daily Maximum = 1.2687 tons/day = 2537 lbs/day

Conversion from lbs/day to mg/L:

8.34 (lb/million gallons)/(mg/L) is the conversion equation from lbs/day to mg/L. [Concentration (mg/L)] = [Load (lbs/day)] \div [Flow (MGD) * 8.34 (lbs/MG)/ (mg/L)

 $MDL = [(2537 \text{ lbs/day}) \div (4.2 \text{ MGD x } 8.34) = 72 \text{ mg/L}$ (2,537 LBS/DAY)

Outfall #002- Waste Load Allocation (WLA)

Design flow is 4.1 MGD

Daily Maximum 1.2385 tons/day = 2,477 lbs/day

Conversion from lbs/day to mg/L:

8.34 (lbs/million gallons)/ (mg/L) is the conversion equation from lbs/day to mg/L. [Concentration (mg/L)] = [Load (lbs/day)] \div [Flow (MGD) * 8.34 (lbs/MG)/(mg/L)

 $MDL = [(2,477 \text{ lbs/day}) \div (4.1 \text{ MGD x } 8.34) = 72 \text{ mg/L}]$ (2,477 LBS/DAY)

Outfall #003- Waste Load Allocation (WLA)

Design flow is 6.2 MGD

Daily Maximum 1.8728 tons/day = 3,746 lbs/day

Conversion from lbs/day to mg/L:

8.34 (lbs/million gallons)/ (mg/L) is the conversion equation from lbs/day to mg/L. [Concentration (mg/L)] = [Load (lbs/day)] \div [Flow (MGD) * 8.34 (lbs/MG)/(mg/L)

 $MDL = [(3,746 \text{ lbs/day}) \div (6.2 \text{ MGD x } 8.34) = 72 \text{ mg/L}$ (3,746 LBS/DAY)

Outfall #004- Waste Load Allocation (WLA)

Design flow is 1.11 MGD

Daily Maximum = 0.3352 tons/day = 670 lbs/day

Conversion from lbs/day to mg/L:

8.34 (lb/million gallons)/(mg/L) is the conversion equation from lbs/day to mg/L. [Concentration (mg/L)] = [Load (lbs/day)] \div [Flow (MGD) * 8.34 (lbs/MG)/ (mg/L)

 $MDL = [(670 \text{ lbs/day}) \div (1.11 \text{ MGD x } 8.34) = 72 \text{ mg/L}$ (2,537 LBS/DAY)

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 was 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. Per a memorandum dated August 6, 2019, the Director has determined permit writers should 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.

Antimony, Total Recoverable

Annual monitoring only. Antimony is mainly used in the production of flame retardants. It is also found as an opacifier in enamel.

Arsenic, Total Recoverable

Quarterly monitoring, with a $20 \,\mu\text{g/L}$ daily maximum benchmark. A benchmark is used to evaluate the effectiveness of BMP technology to control this pollutant. Arsenic has been used to treat wood products, and has been used in numerous agricultural insecticides and poisons. There is a potential for these waste products to be discarded in a landfill. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release arsenic, in addition to the DMR data at this site indicating it is a pollutant of concern.

Barium, Total Recoverable

Quarterly monitoring. DMR data indicates this is a pollutant of concern at this site, so monitoring is required.

Beryllium, Total Recoverable

Annual monitoring. Beryllium has numerous industrial uses due to its light weight and particular chemical properties, especially as an alloy. There is potential for wastes from these uses to be found at a landfill site. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release beryllium.

Cadmium, Total Recoverable

Annual monitoring. Cadmium has numerous industrial uses, including electroplating, paint, batteries, and metal polish, among others. There is a potential for wastes from these uses to be found at a solid waste disposal site. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release cadmium.

Chromium (III), Total Recoverable

Annual monitoring. Chromium III has several industrial uses, including chrome plating, the manufacture of dye and pigments, leather and wood preservation, and as an alloy with other metals. There is a potential for wastes from these uses to be found at a solid waste disposal site. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release chromium III.

Chromium (VI), Dissolved

Annual monitoring. Chromium VI has several industrial uses, including chrome plating, the manufacture of dye and pigments, leather and wood preservation, and as an alloy with other metals. It was also used as "chromic acid" for a glass cleaner in industrial settings. There is a potential for wastes from these uses to be found at a solid waste disposal site. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release chromium VI. Standard Conditions Part I require sufficiently sensitive analytical methods. See Part V. Sampling and Reporting Requirements for more information on sufficiently sensitive methods.

Copper, Total Recoverable

Quarterly Monitoring, with a daily maximum limit of $22 \mu g/L$ benchmark continued from the previous permit. A benchmark is used to evaluate the effectiveness of BMP technology to control this pollutant. Copper has been used to treat wood products. There is a potential for these waste products to be discarded in a landfill. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release copper, in addition to the DMR data at this site indicating it is a pollutant of concern.

Iron, Total Recoverable

Quarterly monitoring, with a technology based $4000 \, \mu g/L$ daily maximum limit. The previous permit required monitoring with a $4,000 \, \mu g/L$ benchmark. However, DMR data at the site indicates values above the acute water quality standard for iron found in $10 \, \text{CSR} \, 20\text{-}7.031 \, \text{Table} \, A1$. Due to the sporadic nature of stormwater discharges, the Department, has determined chronic standards are often not applicable to 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 this outfall at $4000 \, \mu g/L$ per storm event is unlikely to cause an exceedance of the chronic water quality standard of $1000 \, \mu g/L$ over four days. After reviewing other sources of data and studies, it is in the permit writer's best professional judgment to require a $4000 \, \mu g/L$ daily maximum limit for this facility.

Lead, Total Recoverable

Annual monitoring. Lead has numerous industrial uses, including batteries, as an alloy, solder, a coolant, in electronics, and others. Lead is a known pollutant of concern at solid waste disposal sites. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release lead.

Manganese, Total Recoverable

Quarterly monitoring; Manganese is a known pollutant of concern at solid waste disposal sites and is a component of leachate. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release manganese. DMR records show this pollutant is present in the waste stream and is thus a pollutant of concern at this site.

Mercury, Total Recoverable

Annual Monitoring. Mercury is used industrially for the manufacture of chemicals, in fluorescent lights, and in electronics. It is a pollutant of concern at landfill sites. Monitoring is required due to the varying industrial wastes accepted at active landfills, and the potential for those wastes to release mercury.

Nickel, Total Recoverable

Annual Monitoring. Nickel is primarily used as an alloy with other metals. It can be found in magnets, rechargeable batteries, and as an anti-corrosive coating. Nickel is a pollutant of concern at solid waste disposal sites. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release nickel.

Selenium, Total Recoverable

Quarterly monitoring; continued from the previous permit. Selenium is primarily used in the production of glass and electronics. It can also be found as an alloy with other metals. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release selenium. DMR history indicates the permittee was not using sufficiently sensitive analytical methods in the previous permit cycle at other outfalls; therefore reasonable potential to exceed water quality standards is unable to be determined. Standard Conditions Part I require sufficiently sensitive analytical methods. See Part V. Sampling and Reporting Requirements for more information on sufficiently sensitive methods.

Silver, Total Recoverable

Quarterly monitoring; continued from the previous permit. Silver is primarily used industrially in electronics. It can also be found as coatings or paint, as an anti-microbial, or in electroplating. It is a pollutant of concern at solid waste disposal sites; therefore, monitoring will be required. DMR history indicates the permittee was not using sufficiently sensitive analytical methods in the previous permit cycle; therefore reasonable potential to exceed water quality standards is unable to be determined. Standard Conditions Part I require sufficiently sensitive analytical methods. See Part V. Sampling and Reporting Requirements for more information on sufficiently sensitive methods.

Thallium, Total Recoverable

Quarterly monitoring; continued from the previous permit. Thallium was routinely used as a rat poison and an ant killer in the United States until around 1972, but current uses are primarily in optics and electronics. Monitoring is required due to the varying wastes accepted at active landfills, and the potential for those wastes to release thallium. DMR history indicates the permittee was not using sufficiently sensitive analytical methods in the previous permit cycle; therefore reasonable potential to exceed water quality standards is unable to be determined. Standard Conditions Part I require sufficiently sensitive analytical methods. See Part V. Sampling and Reporting Requirements for more information on sufficiently sensitive methods.

Zinc, Total Recoverable

Quarterly monitoring with a 181 μ g/L daily maximum benchmark continued from previous permit. Zinc has numerous industrial applications, the most prevalent of which are batteries and anti-corrosion agents. It is also commonly used as an alloy and in industrial chemical compounds such as flame retardants and wood preservatives. Zinc is a pollutant of concern at solid waste landfills as identified in the ELG for the industry found at 40 CFR 445. A benchmark is added to evaluate the effectiveness of BMP technology to control this pollutant.

NUTRIENTS:

Ammonia, Total as Nitrogen

Quarterly monitoring. Ammonia is a pollutant of concern at solid waste sites, as identified in the ELG found at 40 CFR 445. It is a primary component of leachate.

Phosphorous, Total P (TP)

Quarterly monitoring. DMRs show values (ranging from 0.05 mg/L to 0.77 mg/L) for phosphorus is a pollutant of concern at this site, therefore monitoring is required.

OTHER:

Benzene

Quarterly monitoring. DMR data shows values for fluoride ranging from 0.5 mg/L up to 50 mg/L. 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. Additionally, truck traffic and vehicle maintenance at the site indicates potential to release benzene.

Ethylbenzene

Monitoring requirement removed. The permit writer used best professional judgment to determine that Benzene and Oil & Grease were sufficient enough and would detect failures of stormwater BMPs at outfall #001. (See justification for benzene above).

Fluoride

Quarterly monitoring. DMR data shows values for fluoride ranging from 0.1 mg/L up to 4.3 mg/L. Monitoring is required as this is a pollutant of concern at this site, and landfills in general.

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. http://dnr.mo.gov/env/wpp/cpp/docs/watershed-based-management.pdf. This will allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than two years old, such data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

✓ If the Department issues the permit at this time, the effective period of the permit would be less than one year in length. To ensure efficient use of Department staff time, reduce the Department's permitting back log, and to provide better service to the facility by avoiding another renewal application to be submitted in such a short time period, this operating permit will be issued for the maximum timeframe of five years and synced with other permits in the watershed at a later date.

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. http://dnr.mo.gov/env/wpp/permits/pn/index.html 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 was from October 22, 2021 to November 22, 2021. No comments were received.

DATE OF FACT SHEET: SEPTEMBER 2, 2021

COMPLETED BY:

KYLE O'ROURKE, ENVIRONMENTAL PROGRAM SPECIALIST 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.



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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

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.



STANDARD CONDITIONS FOR NPDES PERMITS ISSUED BY

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

- 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.

RECEIVED



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

CLEAN WATER LAW

APR 3 0 2021

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THE STATE OF THE STATE OF	V 1	40.00

FOR AGENCY USE ONLY

CHECK NUMBER

Water Protection Progra

DATE RECEIVED FEE SUB DET PAY CONFIRMATION NUMBER FEE SUBMITTED

PLEASE READ ALL THE ACCOMPANYIN	NG INSTRUCTIONS BEFORE COMPLETING	1	IFIRMATION NUMBER
		THIS FORM. N BEING RETU	RNED
			NNED.
1. REASON FOR APPLICATION:	(Mo 780-2828): https://dnr.mo.gov/forms/780-2	<u>828-f.pdf</u>	
a. This facility is now in operation und	ler Missouri State On 11		
invoiced and there is no additional	ler Missouri State Operating Permit (permit) Moss no proposed increase in design wastewater fipermit fee required for renewal.	low. Annual fees	will be paid when
L D. This facility is now in operation and	er permit MO –, is submitting an a	application for rer juired. Annual fe	newal, and there <u>is</u> a es will be paid when
	cation for a new permit (for a new facility). Antic		
d. This facility is now in operation under	er Missouri State Operating Permit (permit) MO adation Review may be required. Modification f		and is requesting a
	may be required. Modification for	ee is required.	
NAME Lemons Landfill East		TELEBRON	
ADDRESS (PHYSICAL)		314-249-	E NUMBER WITH AREA CODE 9404
15250 Old Bloomfield Road	CITY Dexter	STATE	ZIP CODE
3. OWNER		MO	63841
NAME Lemons Landfill, LLC		TELESCO.	
EMAIL ADDRESS		314-249-9	NUMBER WITH AREA CODE
lvasbinder@republicservices.com		1-112100	
ADDRESS (MAILING)	CITY		
700 Holzer Drive	Arnold	MO	ZIP CODE
L CONTINUING AUTHORITY	The state of the s	TIMO	63010
ame as above		TELEPHONE	NUMBER WITH AREA CODE
MAIL ADDRESS			NUMBER WITH AREA CODE
DDRESS (MAILING)			
====	CITY	STATE	ZIP CODE
. OPERATOR CERTIFICATION			3352
AME	OFDYFIO		
A - STORMWATER ONLY DDRESS (MAILING)	CERTIFICATE NUMBER	TELEPHONE I	NUMBER WITH AREA CODE
DDRESS (MAILING)	CITY	STATE	ZIP CODE
FACILITY CONTACT			ZIF CODE
ME			
vid Vasbinder	TITLE Environmental Ad-	TELEPHONE	NUMBER WITH AREA CODE
MAIL ADDRESS	Environmental Manager	314-249-9	9404
asbinder@republicservices.com			
DOWNSTREAM LANDOWNER(S) Attach ac	dditional sheets as necessary.		
n Chen	,.		
DRESS	L OLT		
717 County Road 642	CITY Dexter	į.	ATE ZIP CODE
780-1479 (04-21)	DOVIGI	MC	63841

Section 7: Downstream Landowner(s):

Outfall 001, 003 and 004:

Carl and Jonnie Jones

Highway 25 North

Dexter, MO 63841

Outfall 002:

Allen Chen

13717 County Road 642

Dexter, MO 63841

8. ADDI	8. ADDITIONAL FACILITY INFORMATION						
8.1	Legal Description of Ou For Universal Transverse Me	itfalls. (Attach ac rcator (UTM), use Z	lditional sheet one 15 North refe	s if necessary.) renced to North Ame	rican Datum 1983 (N/	4D83)	
	001 <u>SE</u> 1/ ₄	SE 1/4	Sec 2	T 25N	R <u>10E</u>	Stodde Col	unty
	UTM Coordinates Easting	(X): <u>773664</u>	Northing	(Y): <u>4080894</u>			
	002 SW 1/4	NE 1/4	Sec ¹	T 25N	R ^{10E}	Stodda Cor	unty
	UTM Coordinates Easting	(X): <u>773064</u>	Northing	(Y): <u>4079862</u>			•
	003 <u>NE</u> ½ UTM Coordinates Easting	NE 1/4 (X): 773638.9	Sec 11 Northing	T <u>25N</u> (Y): <u>4080420.5</u>	R <u>10E</u>	Stodda Cor	unty
	004 <u>SW</u> 1/ ₄ UTM Coordinates Easting	NE ½ (X): 238040.73	Sec 2 Northing	T <u>25N</u> (Y): <u>4081068.19</u>	R <u>10E</u>	Stodda Co	unty
Include	all subsurface discharges a	and underground ir	njection system	s for permit conside	eration.		
8.2 F	Primary Standard Industrial			orth American Indu	ıstrial Classificatior	System (NAI	CS) Codes.
	Primary SIC <u>4953</u> SIC	and NAICS 55	<u>52212</u>	SIC	and NAICS and NAICS	<u> </u>	
9 ADDI	TIONAL FORMS AND MA					eraven in the second	
3. ADDI	THOUAL TOKING AND WA	I O NECESSARI	10 COM LLT				Harris and Contraction
Α.	ls this permit for a manufa If yes, complete Form C.	cturing, commerci	al, mining, solid	/hazardous waste,	or silviculture facili	ty? YES ☐	NO 🚺
В.	Is the facility considered a If yes, complete Forms C		" under EPA gu	idelines (40 CFR P	art 122, Appendix	A): YES 🗌	NO 🛛
C.	Is wastewater land applied If yes, complete Form I.	1?				YES 🗌	NO 🛮
D.	Are sludge, biosolids, ash If yes, complete Form R.	, or residuals gene	erated, treated,	stored, or land app	lied?	YES 🗌	NO 🛮
E.	E. Have you received or applied for any permit or construction approval under the CWA or any other environmental regulatory authority? If yes, please include a list of all permits or approvals for this facility: Environmental Permits for this facility:						ио 🛛
F.	Do you use cooling water If yes, please indicate the	in your operations source of the wate	at this facility? er:			YES 🗌	NO 🗹
G.	Attach a map showing all	outfalls and the re	ceiving stream a	at 1" = 2,000' scale			
10. ELE	CTRONIC DISCHARGE M	ONITORING REP	ORT (eDMR) S	UBMISSION SYS	TEM		
Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, reporting of effluent limits and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, accurate, and nationally consistent set of data. One of the following must be checked in order for this application to be considered complete. Please visit https://dnr.mo.gov/env/wpp/edmr.htm for information on the Department's eDMR system and how to register.							
☐ - 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 ha waivers.	ave submitted a written requ	uest for a waiver fr	om electronic re	eporting. See instru	ictions for further in	formation rega	arding
☐ - The	e permit I am applying for d	oes not require the	e submission of	discharge monitori	ng 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

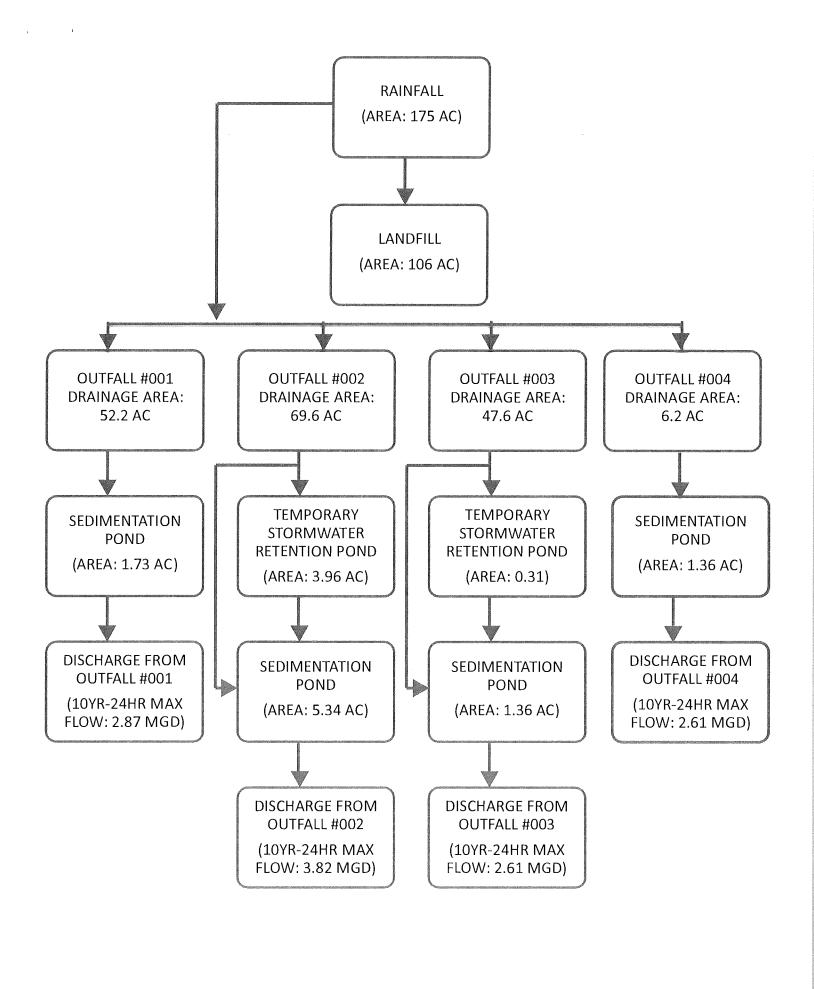
For new permits: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591

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

12. CERTIFICATION

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

TELEPHONE NUMBER WITH AREA CODE	314-249-9404	DATE SIGNED	04/26/21	
NAME AND OFFICIAL TITLE (TYPE OR PRINT)	David Vasbinder, Environmental Manager	SIGNATURE		MO 780.1479 (04.21)





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

GENERAL INFORMATION (PLEASE SEE INSTRUCTIONS)

1.0 NAME OF FACILITY

Lemons Landfill East

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

MO-0113891

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

NO

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 Solid Waste Landfill with solid waste hauling operations and maintenance. Waste is brought to the facility, weighed and directed to the Subtitle D landfill for disposal. The waste is compacted and covered daily. Leachate/liquids are removed from the landfill at sumps and pumped to a 250,000 gallon tank and hauled to the local WWTP for disposal. Maintenance to landfill equipment is conducted within the landfill shop and maintenance to the haul trucks is completed within the hauling shop. Outside truck fueling occurs north of the landfill shop. Landfill gases are collected and routed to a 2,000 scfm utility flare located west of the leachate tank.

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	Landfill, Fueling Area, Borrow Area, Leachate	4.2 MGD	Retention/BMP	1-U
	Tank, Utility Flare & Container Storage Areas			
#002	Landfill, and borrow area	4.1 MGD	Retention/BMP	1-U
#003	Landfill, and borrow area	6.2 MGD	Retention/BMP	1-U
#004	Borrow areas and Maintenance Shop	1.11 MGD	Retention/BMP	1-U
	Δttach add	tional nages if necessa	arv.	

	ERMITTENT DISCHAF or stormwater runoff, le		any of the	e discharge:	s described	in items 2.0	0 or 2.1 intern	nittent or sea	sonal?
	☐ Yes (complete the	following table)	abla	No (go to s	ection 2.3)				
			2 505	OUTNOV		4.	FLOW		
1.			3. FRE	QUENCY	A. FLOW RA	ATE (in mgd)	B. TOTAL VOLUME (specify with units)		C. DURATION
OUTFALL NUMBER	2. OPERATION(S) CON	TRIBUTING 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	(in days)
2.3 PRO	DDUCTION		1	1		1	<u> </u>		
		=							
	an effluent limitation Indicate the part and s			d by EPA u	nder section	1 304 of the	e Clean Water	· Act apply to	your
	Yes 40 CFR	Subpart(s	s)	_ 🗸	No (go to se	ection 2.5)			
B. Are t below.	he limitations in the ef	fluent guideline(s)	expresse)	d in terms o	of production	ı (or other ı	measure of op	peration)? De	escribe in C
	Yes (complete C.)	☑ No	(go to sec	tion 2.5)					
C. If you	u answered "yes" to B, ed in the terms and un	, list the quantity r nits used in the ap	epresentir plicable ef	ng an actual fluent quide	measureme	ent of your icate the a	maximum lev	el of produc	tion,
A. OUTFAL		·	·				MATERIAL, ETC. (

2.4 IMPR	OVEMENTS								
u a	are you required by an pgrading, or operation ffect the discharges d r enforcement orders,	of wastewater treeseribed in this ap	eatment ed oplication?	uipment or This includ	practices or des, but is no	r any other ot limited to	environmenta o, permit conc	al programs litions, admi	which may nistrative
_	es (complete the follow			No (go to		,			
	FICATION OF CONDITION,	2. AFFECTED OUTFALLS		3. BRIEF	DESCRIPTION OF	F PROJECT		4. FINAL COM	IPLIANCE DATE
	GREEMENT, ETC.	OUTFALLS						A. REQUIRED	B. PROJECTED
B. C	Optional: provide belov	v or attach additio	nal sheets	describing	water pollut	ion control	nrograms or	other enviro	mental
р	rojects which may affe	ect discharges. In	dicate whe	ther each p	rogram is u	nderway o	r planned, and		
р	lanned schedules for	construction. This	may inclu	de propose	d bmp proje	cts for stor	mwater.		

information for any haule	any industrial or domestic bio	volume, and methods		our facility. Include names and contact on, landfilling, composting, etc) used. See
DATA COLLECTION AN	D REPORTING REQUIRE	JENTS FOR ARRIVA		
a thirties of the control of this base of the property of the control of the cont			destruction of	
A. & B. See instruction		plete one Table 1 for e a	ich outfall	(and intake) – annotate the outfall (intake) e intake data unless required by the
believe is discharged		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. 0	UTFALL(S)	4. ANALYTICAL RESULTS (INCLUDE UNITS)
 3.1 Whole Effluent Toxic	ity Testing			
waters in relation to your	discharge) within the last th	ree 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	ntification evaluations (TIE)	or toxicity reduction eva	aluations (ns tested, and the testing results. Provide TRE) if applicable. Please indicate the ps the facility is taking to remedy the
3.2 CONTRACT ANALYS		or on Table 4	ا جام الم	street leberatory or consulting firm
· ·	•	*	•	ntract laboratory or consulting firm? I laboratory or firm.) \text{No (go to 4.0)}
		C. TELEPHONE	T Caby Caci	D. POLLUTANTS ANALYZED
A. LAB NAME	B. ADDRESS	(area code and number)		(list or group)
Pace Analyticial	7901 W. Morris St. Indianapolis, IN 46231	317-243-8304		&G, pH, Settable Solids, TSS, Arsenic, Chromium (VI), Copper, Iron, Manganese,
				n, Silver, Thalium, Zinc, Ammonia, orus, Benzene, Ethylbenzene, Fluoride

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		Veg, soil, unpaved roads	Terraces, perimeter channels, letdowns, retention pond, silt fencing, filter socks
#002		Veg, soil, unpaved roads	Terraces, perimeter channels, letdowns, retention ponds silt fencing, filter sock
#003		Veg, soil, unpaved roads	Terraces, perimeter channels, letdowns, retention ponds silt fencing, filter sock
#004		Veg, Soil, Paved parking/roads	Drainage channels, fitler socks, silt fencing, retention pond

4.2 STORMWATER FLOWS

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

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 PRINT)	TELEPHONE NUMBER WITH AREA CODE
David Vasbinder, Environmental Manager	314-249-9404
SIGNATURE (SEE INSTRUCTIONS)	DATE SIGNED
Y-V-	04/26/21

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.

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

EFFLUENT (AND INTAI	(E) CHARACTERIS	STICS	THIS OUTFALL IS:	001				OUTFALL NO. 00	01
3.0 PART A – You must	provide the results	of at least one an	alysis for every polluta	nt in Part A. Comp	olete one table for each	outfall or propose	ed outfall. Sea	e instructions	
				2. VALUES		***		3, UNITS (s	pecify if blank)
1. POLLUTANT	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A CONCEN-	
	(1) CONCENTRATION (2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	12	204	12	204	<2		12	mg/L	
B. Chemical Oxygen Demand (COD)	61.5				<10			mg/L	
C. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D. Total Suspended Solids (TSS)	426							mg/L	
E. Ammonia as N	1.7								
F. Flow	VALUE 4.5		VALUE 4.5		VALUE .19			MILLIONS OF GA	ALLONS PER DA'
G. Temperature (winter)	VALUE 52		VALUE 52		VALUE 52			,	°F
d. Temperature (summer)	VALUE 78		VALUE 78		VALUE 78			,	°F
i. pH	MINIMUM 7.5		MAXIMUM 8.5		AVERAGE 7.6			STANDARD	UNITS (SU)

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.

percentage in the contract of the			and the second second second second				A Control of the Cont				
1. POLLUTANT	2. MA	RK "X"	3. VALUES								NITS
AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM DA	VILY VALUE	B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventior	al and No	n-Conve	ntional Pollutants								
A. Alkalinity (CaCO ₃)	x		MINIMUM N/A		Миниом		MINIMUM				
B. Bromide (24959-67-9)		х									
C. Chloride (16887-00-6)	х										
D. Chlorine, Total Residual		Х									
E. Color		Х									
F. Conductivity	x		361		361		361		1		umhos/cm
F. Cyanide, Amenable to Chlorination		х									

MO 780-1514 (02-19)

Page 5 of 13

4 POLITAIT	2. MA	RK "X"				3. VALUES				4, U	NITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventions	al and No	n-Conve	ntional Pollutants	(Continued)							
G. E. coli		Х									
H. Fluoride (16984-48-8)	х		4.3	73	4.3	73	1.6	1.2	9	mg/l	kg
l. Nitrate plus Nitrate (as N)		x									
J. Kjeldahi, Total (as N)		x									
K. Nitrogen, Total Organic (as N)		х									
L. Oil and Grease		х	<5		<5		<5		9	mg/L	
M. Phenois, Total		Х									
N. Phosphorus (as P), Total (7723-14-0)		х									
O. Sulfate <i>(as SO⁴)</i> (14808-79-8)		х									
P. Sulfide (as S)		х									
Q. Sulfite (as SO³) (14265-45-3)		х									
R. Surfactants		X					l				
S. Trihalomethanes, Total		Х									
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		х									
2M. Antimony, Total Recoverable (7440-36-9)		×	<6						9	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	x		7.3	0.12	7.3	0.12	5.2	0.004	9	ug/L	kg
4M. Barium, Total Recoverable (7440-39-3)	х		202	3.4	202	3.4	124	0.09	9	ug/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		х	<4					<4	9	ug/L	kg
6M. Boron, Total Recoverable (7440-42-8)		х									
7M. Cadmium, Total Recoverable (7440-43-9)		X	<2					<2	9	ug/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	х		33	.56	33	.562	<10		9	ug/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		x	<10							ug/L	
10M. Cobalt, Total Recoverable (7440-48-4)		х									

MO 780-1514 (02-19)

Page 6 of 13

.

1. POLLUTANT	2. MA	RK "X"				3. VALUES				4. L	INITS
AND CAS NUMBER (if available)	A. BELIEVED	В,	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE C. LONG TERM AVERAGE VALUE				A. CONCEN-	1
(и ауакарга)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	D, NO, OF ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Cor	tinued)					•			•		
11M. Copper, Total Recoverable (7440-50-8)	х		59.5	1.01	59.5	1.01	28.5	0.02	7	ug/L	kg
12M. Iron, Total Recoverable (7439-89-6)	x		22.700	386	22,700	386	3890	2.84	10	ug/L	kg
13M. Lead, Total Recoverable (7439-92-1)		х	<10				<10			ug/L	
14M. Magnesium, Total Recoverable (7439-95-4)		х									
15M. Manganese, Total Recoverable (7439-96-5)	х		627	10.7	627	10.7	327	.24	9	ug/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		х	<0.20				<0.20				
17M. Methylmercury (22967926)		x									
18M. Molybdenum, Total Recoverable (7439-98-7)		х									
19M. Nickel, Total Recoverable (7440-02-0)	Х		24.3	0.41	24.3	0.41	<10		9	ug/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		х	<1.0				<1.0		9	ug/L	kg
21M. Silver, Total Recoverable (7440-22-4)		Х	<0.5				<0.5		9	ug/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		Х	<1.0				<1.0		9	ug/L	kg
23M. Tin, Total Recoverable (7440-31-5)		Х									
24M. Titanium, Total Recoverable (7440-32-6)		Х									
25M. Zinc, Total Recoverable (7440-66-6)	X		72.9	1.24	72.9	1.24	40	.03	8	ug/L	kg
Subpart 3 – Radioactivity	1							***************************************			
1R. Alpha Total		Х									
2R. Beta Total		X									
3R. Radium Total		X									
4R. Radium 226 plus 228 Total		X									

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

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

EFFLUENT (AND INTA	KE) CHARACTERIS	STICS	THIS OUTFALL IS:	001				OUTFALL NO. 0	01
3.0 PART A – You must	provide the results	of at least one an	alysis for every polluta	nt in Part A. Comp	olete one table for each	outfall or propose	ed outfall. See	e instructions	
				2. VALUES				3. UNITS (s	pecify if blank)
1. POLLUTANT	A. MAXIMUN	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A CONCEN-	
	(1) CONCENTRATION (2) MASS		(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD₅)	12	204	12	204	<2		12	mg/L	
B. Chemical Oxygen Demand (COD)	61.5				<10			mg/L	
C. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D. Total Suspended Solids (TSS)	426							mg/L	
E. Ammonia as N	1.7								
F. Flow	VALUE 4.5	-1	VALUE 4.5		VALUE .19	at		MILLIONS OF GA	ALLONS PER DA'
G. Temperature (winter)	VALUE 52		VALUE 52		VALUE 52				°F
d. Temperature (summer)	VALUE 78		VALUE 78		VALUE 78				°F
. pH			MAXIMUM 8.5		AVERAGE 7.6		STANDARD UNITS (SU)		

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.

1. POLLUTANT	2. MA	RK "X"		3. VALUES							
AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM DA	AILY VALUE	B. MAXIMUM 30	30 DAY VALUES C. LONG TERM AVE		RAGE VALUES	D, NO, OF	A. CONCEN-	
(if available)	PRESENT BELIEVED		CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventior	nal and No	n-Conve	ntional Pollutants								1
A. Alkalinity (CaCO ₃)	x		MINIMUM N/A		Минмим		MINIMUM				
B. Bromide (24959-67-9)		х									
C. Chloride (16887-00-6)	х										
D. Chlorine, Total Residual		Х									
E. Color		х									
F. Conductivity	X		361		361		361		1		umhos/cr
F. Cyanide, Amenable to Chlorination		х									

MO 780-1514 (02-19)

Page 5 of 13

	2. MAI	RK "X"				3. VALUES				4. U	NITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	D. NO. OF	A CONCEN-	
(ił avaiłable)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventions	al and No	n-Convei	ntional Pollutants	(Continued)							
G. E. coli		X									
H. Fluoride (16984-48-8)	х		4.3	73	4.3	73	1.6	1.2	9	mg/l	kg
l. Nitrate plus Nitrate (as N)		Х									
J. Kjeldahî, Total (as N)		X									
K. Nitrogen, Total Organic (as N)		Х									
L. Oil and Grease		X	<5		<5		<5		9	mg/L	
M. Phenois, Total		Х									
N. Phosphorus (as P), Total (7723-14-0)		х									
O. Sulfate (as SO ⁴) (14808-79-8)		Х									
P. Sulfide (as S)		Χ									
Q. Sulfite (as SO ³) (14265-45-3)		Х									
R. Surfactants		Χ									
S. Trihalomethanes, Total		Χ									
Subpart 2 – Metals						•					
1M. Aluminum, Total Recoverable (7429-90-5)		Х									
2M. Antimony, Total Recoverable (7440-36-9)		Х	<6						9	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	х		7.3	0.12	7.3	0.12	5.2	0.004	9	ug/L	kg
4M. Banum, Total Recoverable (7440-39-3)	X		202	3.4	202	3.4	124	0.09	9	ug/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		Х	<4					<4	9	ug/L	kg
6M. Boron, Total Recoverable (7440-42-8)		х									
7M. Cadmium, Total Recoverable (7440-43-9)		Х	<2					<2	9	ug/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	Х		33	.56	33	.562	<10		9	ug/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		Х	<10							ug/L	
10M. Cobalt, Total Recoverable (7440-48-4)		Х									

MO 780-1514 (02-19)

Page 6 of 13

1. POLLUTANT	2. MA	RK "X"				3. VALUES				4. U!	VITS
AND CAS NUMBER (if available)	A. BELIEVED	B. BELIEVED	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	D. NO. OF	A CONCEN-	B. MASS
(ii available)	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	р, індээ
Subpart 2 – Metals (Con	tinued)										
11M. Copper, Total Recoverable (7440-50-8)	x		59.5	1.01	59.5	1.01	28.5	0.02	7	ug/L	kg
12M. fron, Total Recoverable (7439-89-6)	х		22.700	386	22,700	386	3890	2.84	10	ug/L	kg
13M. Lead, Total Recoverable (7439-92-1)		х	<10				<10			ug/L	
14M. Magnesium, Total Recoverable (7439-95-4)		х									
15M. Manganese, Total Recoverable (7439-96-5)	х		627	10.7	627	10.7	327	.24	9	ug/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		х	<0.20				<0.20				
17M. Methylmercury (22967926)		x									
18M. Molybdenum, Total Recoverable (7439-98-7)		х									
19M. Nickel, Total Recoverable (7440-02-0)	x		24.3	0.41	24.3	0.41	<10		9	ug/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		х	<1.0				<1.0		9	ug/L	kg
21M. Silver, Total Recoverable (7440-22-4)		x	<0.5				<0.5		9	ug/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		x	<1.0				<1.0		9	ug/L	kg
23M. Tin, Total Recoverable (7440-31-5)		x									
24M. Titanium, Total Recoverable (7440-32-6)		X									
25M. Zinc, Total Recoverable (7440-66-6)	х		72.9	1.24	72,9	1.24	40	.03	8	ug/L	kg
Subpart 3 – Radioactivity	/										
1R. Alpha Total		X									
2R. Beta Total		Х									
3R. Radium Total		х									
4R. Radium 226 plus 228 Total		X									

SEE INSTRUCTIONS; PLEASE PRINT OR TYPE.

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

EFFLUENT (AND INTAI	KE) CHARACTERIS	STICS	THIS OUTFALL IS:	001				OUTFALL NO.	01
3.0 PART A – You must	provide the results	of at least one an	alysis for every polluta	nt in Part A. Comp	lete one table for each	outfall or propose	ed outfall. See	instructions.	
				2. VALUES				3. UNITS (specify if I	
1. POLLUTANT	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D. NO. OF	A. CONCEN-	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	12	204	12	204	<2		12	mg/L	
Chemical Oxygen Demand (COD)	61.5				<10			mg/L	
C. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D. Total Suspended Solids TSS)	426							mg/L	
E. Ammonia as N	1.7								
F. Flow	VALUE 4.5		VALUE 4.5	•	VALUE .19			MILLIONS OF GA	ALLONS PER DA GD)
G. Temperature (winter)	VALUE 52		VALUE 52		VALUE 52			٠	F
d. Temperature (summer)	VALUE 78	UE 78 VALUE			VALUE 78		٠	F	
. pH	MINIMUM 7.5	MAXIMUM 8.5				STANDARD	UNITS (SU)		

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.

1. POLLUTANT	2. MA	RK "X"				3. VALUES				4. UI	NITS
AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM I	DAILY VALUE	B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D, NO, OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventior	al and No	n-Conve	ntional Pollutants								
A. Alkalinity (CaCO ₃)	х		MINIMUM N/A		Миним		Мінімим				
3. Bromide 24959-67-9)		х		*//							
C. Chloride (16887-00-6)	x										
D. Chlorine, Total Residual		х									
E. Color		х									
F. Conductivity	X		361		361		361		1		umhos/cn
F. Cyanide, Amenable to Chlorination		Х									

MO 780-1514 (02-19)

Page 5 of 13

	2. MA	RK "X"				3. VALUES				4. UI	NITS
1. POLLUTANT AND CAS NUMBER	4 001000	В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	A. BELIEVEO PRESENT	B. BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventions	al and No	n-Conve	ntional Pollutants	(Continued)		1					
G. E. coli		X									
H. Fluoride (16984-48-8)	х		4.3	73	4.3	73	1.6	1.2	9	mg/l	kg
I. Nitrate plus Nitrate (as N)		х									
J. Kjeldahl, Total (as N)		x									
K. Nitrogen, Total Organic (as N)		x									
L. Oil and Grease		X	<5		<5		<5		9	mg/L	1
M. Phenois, Total		Х									
N. Phosphorus (as P), Total (7723-14-0)		х									
O. Sulfate <i>(as SO⁴)</i> (14808-79-8)		х									
P. Sulfide (as S)		X			-						
Q. Sulfite (as SO ³) (14265-45-3)		х									
R. Surfactants		×									
S. Trihalomethanes, Total		x	_								
Subpart 2 – Metals										-	
1M. Aluminum, Total Recoverable (7429-90-5)		х									
2M. Antimony, Total Recoverable (7440-36-9)		Х	<6						9	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	x		7.3	0.12	7.3	0.12	5.2	0.004	9	ug/L	kg
4M. Barium, Total Recoverable (7440-39-3)	Х		202	3.4	202	3.4	124	0.09	9	ug/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		x	<4					<4	9	ug/L	kg
6M. Boron, Total Recoverable (7440-42-8)		x									
7M. Cadmium, Total Recoverable (7440-43-9)		х	<2					<2	9	ug/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	Х		33	.56	33	.562	<10		9	ug/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		x	<10							ug/L	
10M. Cobalt, Total Recoverable (7440-48-4)		х									

MO 780-1514 (02-19)

Page 6 of 13

4 0011117417	2. MA	RK "X"				3, VALUES				4. U	NITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	B.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	D. NO, OF	A. CONCEN-	
(if available)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)			•			•	•			
11M. Copper, Total Recoverable (7440-50-8)	х		59.5	1.01	59.5	1.01	28.5	0.02	7	ug/L	kg
12M. Iron, Total Recoverable (7439-89-6)	X		22.700	386	22,700	386	3890	2.84	10	ug/L	kg
13M. Lead, Total Recoverable (7439-92-1)		Х	<10				<10			ug/L	
14M. Magnesium, Total Recoverable (7439-95-4)		Х									
15M. Manganese, Total Recoverable (7439-96-5)	х		627	10.7	627	10.7	327	.24	9	ug/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		Х	<0.20				<0.20				
17M. Methylmercury (22967926)		X									
18M. Molybdenum, Total Recoverable (7439-98-7)		Х									
19M. Nickel, Total Recoverable (7440-02-0)	x		24.3	0.41	24.3	0.41	<10		9	ug/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		х	<1.0				<1.0		9	ug/L	kg
21M. Silver, Total Recoverable (7440-22-4)		Х	<0.5				<0.5		9	ug/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		х	<1.0				<1.0		9	ug/L	kg
23M. Tin, Total Recoverable (7440-31-5)		Х									
24M. Titanium, Total Recoverable (7440-32-6)		Х									
25M. Zinc, Total Recoverable (7440-66-6)	х		72.9	1.24	72.9	1.24	40	.03	8	ug/L	kg
Subpart 3 – Radioactivity	1										
IR. Alpha Total		Χ									
2R. Bela Total		Х									
BR. Radium Total		Х									
IR. Radium 226 plus 228 Total		X									

SEE INSTRUCTIONS; PLEASE PRINT OR TYPE.

EFFLUENT (AND INTAI	KE) CHARACTERIS	STICS	THIS OUTFALL IS:	001				OUTFALL NO. 0	01
3.0 PART A – You must	provide the results	of at least one an	alysis for every polluta	nt in Part A. Comp	olete one table for each	outfall or propose	ed outfall. See	instructions	
				2. VALUES				3. UNITS (s	pecify if blank)
1. POLLUTANT	A. MAXIMUN	DAILY VALUE	B. MAXIMUM	30 DAY VALUES	C. LONG TERM A	VERAGE VALUES	D, NO, OF	A. CONCEN-	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	12	204	12	204	<2		12	mg/L	
B. Chemical Oxygen Demand (COD)	61.5				<10			mg/L	
C. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D. Total Suspended Solids (TSS)	426							mg/L	
E. Ammonia as N	1.7								
F. Flow	VALUE 4.5		VALUE 4.5		VALUE .19	•		MILLIONS OF G	ALLONS PER DA
3. Temperature (winter)	VALUE 52		VALUE 52		VALUE 52				°F
d. Temperature (summer)	VALUE 78		VALUE 78		VALUE 78			,	°F
. pH	MINIMUM 7.5		MAXIMUM 8.5		AVERAGE 7.6			STANDARI	UNITS (SU)
3.0 PART B – Mark "X" i Column 2A for any pollu parameters not listed he	tant, you must prov								
Jarameters not listed ne	a MARK HVT		Section of the sectio	3 VALUE		alteratives and the second			INITE

	2. MA	RK "X"				3. VALUES				4. U	NITS
1. POLLUTANT AND CAS NUMBER	A. BELIEVED	В.	A. MAXIMUM DA	ILY VALUE	B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES		D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Convention	al and No	n-Conve	ntional Pollutants								
A. Alkalinity (CaCO ₃)	X		MINIMUM N/A		Minimum		MINIMUM				
B. Bromide (24959-67-9)		х									
C. Chloride (16887-00-6)	X										
D. Chlorine, Total Residual		X									
E. Color		X						1111-11-1-1			
F. Conductivity	X		361		361		361		1		umhos/cm
F. Cyanide, Amenable to Chlorination		х									

MO 780-1514 (02-19)

Page 5 of 13

	2. MA	RK "X"				3. VALUES				4. UI	VITS
1. POLLUTANT AND CAS NUMBER		В,	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventions	al and No	n-Conve	ntional Pollutants	(Continued)							
G. E. coli		Х									
H. Fluoride (16984-48-8)	x		4.3	73	4.3	73	1.6	1.2	9	mg/l	kg
I. Nitrate plus Nitrate (as N)		Х									
J. Kjeldahi, Tolai (as N)		X									
K. Nitrogen, Total Organic (as N)		x									
L. Oil and Grease		X	<5		<5		<5		9	mg/L	
M. Phenois, Total		X									
N. Phosphorus (as P), Total (7723-14-0)		x									
O. Sulfate (as SO ⁴) (14808-79-8)		х									
P. Sulfide (as S)		X									
Q. Sulfite (as SO ³) (14265-45-3)		x									
R. Surfactants		X									
S. Trihalomethanes, Total		X									
Subpart 2 – Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		Х									
2M. Antimony, Total Recoverable (7440-36-9)		Х	<6						9	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	x		7.3	0.12	7.3	0.12	5.2	0.004	9	ug/L	kg
4M. Barium, Total Recoverable (7440-39-3)	x		202	3.4	202	3.4	124	0.09	9	ug/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		х	<4					<4	9	ug/L	kg
6M. Boron, Total Recoverable (7440-42-8)		х									
7M. Cadmium, Total Recoverable (7440-43-9)		х	<2					<2	9	ug/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	X		33	.56	33	.562	<10		9	ug/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		х	<10							ug/L	
10M. Cobalt, Total Recoverable (7440-48-4)		x									

MO 780-1514 (02-19)

Page 6 of 13

	2. MA	RK "X"				3. VALUES				4. U	NITS
1. POLLUTANT AND CAS NUMBER		В.	A. MAXIMUM	DAILY VALUE	B. MAXIMUM	30 DAY VALUE	C. LONG TERM	AVERAGE VALUE	T	4 00H0FH	
(f evallable)	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	D. NO. OF ANALYSES	A. CONCEN- TRATION	B. MASS
Subpart 2 – Metals (Con	tinued)			<u> </u>				<u> </u>			
11M. Copper, Total Recoverable (7440-50-8)	х		59.5	1.01	59.5	1.01	28.5	0.02	7	ug/L	kg
12M. Iron, Total Recoverable (7439-89-6)	x		22.700	386	22,700	386	3890	2.84	10	ug/L	kg
13M. Lead, Total Recoverable (7439-92-1)		х	<10				<10			ug/L	
14M. Magnesium, Total Recoverable (7439-95-4)		х									
15M. Manganese, Total Recoverable (7439-96-5)	х		627	10.7	627	10.7	327	.24	9	ug/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		x	<0.20				<0.20				
17M. Methylmercury (22967926)		х									
18M. Molybdenum, Total Recoverable (7439-98-7)		х									
19M. Nickel, Total Recoverable (7440-02-0)	х		24.3	0.41	24.3	0.41	<10		9	ug/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		х	<1.0				<1.0		9	ug/L	kg
21M. Silver, Total Recoverable (7440-22-4)		х	<0.5				<0.5		9	ug/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		х	<1.0				<1.0		9	ug/L	kg
23M. Tin, Total Recoverable (7440-31-5)		х									
24M. Titanium, Total Recoverable (7440-32-6)		х									
25M. Zinc, Total Recoverable (7440-66-6)	x		72.9	1.24	72.9	1.24	40	.03	8	ug/L	kg
Subpart 3 – Radioactivity	y										
1R. Alpha Total		Х									
2R. Beta Total		Х									
3R. Radium Total		Х									
4R. Radium 226 plus 228 Total		Х									

Page 7 of 13

RECEIVED



MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM

CLEAN WATER LAW

APR 3 0 2021

CHECK NUMBER

FORM A - APPLICATION FOR NONDOMESTIC PERMIT UNDER MISSOURI Water Protection Programpate RECEIVED

FEE SUBMITTED

FOR AGENCY USE ONLY

		JET PAY CONFIRM.	ATION NUMBER
PLEASE READ ALL THE ACCOMPANYING INSTRUCTIONS SUBMITTAL OF AN INCOMPLETE APPLICATION MAY RES			D.
IF YOUR FACILITY IS ELIGIBLE FOR A NO EXPOSURE EX Fill out the No Exposure Certification Form (Mo 780-2828): http://dx.doi.org/10.1001/html/html/html/html/html/html/html/html		<u>-f.pdf</u>	
1. REASON FOR APPLICATION:			
☑ a. This facility is now in operation under Missouri State Capplication for renewal, and there is no proposed incrinvoiced and there is no additional permit fee required.	ease in design wastewater flow.	0113891, is Annual fees wil	submitting an I be paid when
b. This facility is now in operation under permit MO – proposed increase in design wastewater flow. Antideginvoiced and there is no additional permit fee required	gradation Review may be require	ication for renewed. Annual fees	val, and there <u>is</u> a will be paid when
c. This is a facility submitting an application for a new perpermit fee is required.	ermit (for a new facility). Antidegi	radation Review	may be required. New
d. This facility is now in operation under Missouri State C modification to the permit. Antidegradation Review ma	Operating Permit (permit) MO - ay be required. Modification fee	is required.	d is requesting a
2. FACILITY			
NAME Lemons Landfill East		314-249-94	
ADDRESS (PHYSICAL) 15250 Old Bloomfield Road	Dexter	MO STATE	ZIP CODE 63841
3. OWNER			
NAME Lemons Landfill, LLC EMAIL ADDRESS		314-249-94	IUMBER WITH AREA CODE 104
dvasbinder@republicservices.com			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE
1700 Holzer Drive	Arnold	MO	63010
4. CONTINUING AUTHORITY			
NAME		TELEPHONE N	IUMBER WITH AREA CODE
same as above EMAIL ADDRESS			
ADDRESS (MAILING)	CITY	STATE	ZIP CODE
5. OPERATOR CERTIFICATION			
NAME	CERTIFICATE NUMBER	TELEPHONE N	NUMBER WITH AREA CODE
N/A - STORMWATER ONLY ADDRESS (MAILING)	CITY	STATE	ZIP CODE
ADDRESS (WAILING)		0.7.112	20 0001
6. FACILITY CONTACT			
NAME David Vasbinder	TITLE Environmental Manager	314-249-	E NUMBER WITH AREA CODE 9404
e-mail address dvasbinder@republicservices.com			
7. DOWNSTREAM LANDOWNER(S) Attach additional sheets	as necessary.		
NAME Alan Chen		· · · · · · · · · · · · · · · · · · ·	
ADDRESS			
13717 County Road 642	CITY Dexter	s M	TATE ZIP CODE O 63841

MO 780-1479 (04-21)

Section 7: Downstream Landowner(s):

Outfall 001, 003 and 004:

Carl and Jonnie Jones

Highway 25 North

Dexter, MO 63841

Outfall 002:

Allen Chen

13717 County Road 642

Dexter, MO 63841

8. ADDITIONAL FACILITY INFORMATION	
8.1 Legal Description of Outfalls. (Attach additional sheets if necessary.) For Universal Transverse Mercator (UTM), use Zone 15 North referenced to North American Datum 1983 (NAI	
001 <u>SE 1/4 SE 1/4 Sec 2 T 25N R 10E</u>	Stodda County
UTM Coordinates Easting (X): 773664 Northing (Y): 4080894	
002 <u>SW 1/4 NE 1/4</u> Sec <u>1 T 25N R 10E</u> UTM Coordinates Easting (X): <u>773064</u> Northing (Y): <u>4079862</u>	Stodda County
003 <u>NE ¼ NE ¼</u> Sec <u>11 T 25N R 10E</u> UTM Coordinates Easting (X): <u>773638.9</u> Northing (Y): <u>4080420.5</u>	Stodda County
004 <u>SW 1/4</u> <u>NE 1/4</u> Sec <u>2</u> T <u>25N</u> R <u>10E</u> UTM Coordinates Easting (X): <u>238040.73</u> Northing (Y): <u>4081068.19</u>	Stodde County
Include all subsurface discharges and underground injection systems for permit consideration.	
8.2 Primary Standard Industrial Classification (SIC) and Facility North American Industrial Classification	System (NAICS) Codes.
Primary SIC 4953 and NAICS 562212 SIC and NAICS SIC and NAICS SIC and NAICS	
9. ADDITIONAL FORMS AND MAPS NECESSARY TO COMPLETE THIS APPLICATION	
A. Is this permit for a manufacturing, commercial, mining, solid/hazardous waste, or silviculture facility If yes, complete Form C.	y? YES□ NO☑
B. Is the facility considered a "Primary Industry" under EPA guidelines (40 CFR Part 122, Appendix A If yes, complete Forms C and D.	N): YES NO 🔽
C. Is wastewater land applied? If yes, complete Form I.	YES NO 🗹
D. Are sludge, biosolids, ash, or residuals generated, treated, stored, or land applied? If yes, complete Form R.	YES NO 🗹
Have you received or applied for any permit or construction approval under the CWA or any other environmental regulatory authority? If yes, please include a list of all permits or approvals for this facility: Environmental Permits for this facility:	YES □ NO 🔽 —
F. Do you use cooling water in your operations at this facility? If yes, please indicate the source of the water:	YES□ NO 🗹
G. Attach a map showing all outfalls and the receiving stream at 1" = 2,000' scale.	
10. ELECTRONIC DISCHARGE MONITORING REPORT (eDMR) SUBMISSION SYSTEM	
Per 40 CFR Part 127 National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, and monitoring shall be submitted by the permittee via an electronic system to ensure timely, complete, acconsistent set of data. One of the following must be checked in order for this application to be considered visit https://dnr.mo.gov/env/wpp/edmr.htm information on the Department's eDMR system and how to require the considered control of the	curate, and nationally Iered complete. Please
☐ - I will register an account online to participate in the Department's eDMR system through the Missouri C Management (MoGEM) before any reporting is due, in compliance with the Electronic Reporting Rule.	Sateway for Environmental
☑ - I have already registered an account online to participate in the Department's eDMR system through M	
☐ - I have submitted a written request for a waiver from electronic reporting. See instructions for further inf waivers.	ormation regarding
☐ - The permit I am applying for does not require the submission of discharge monitoring reports.	

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:

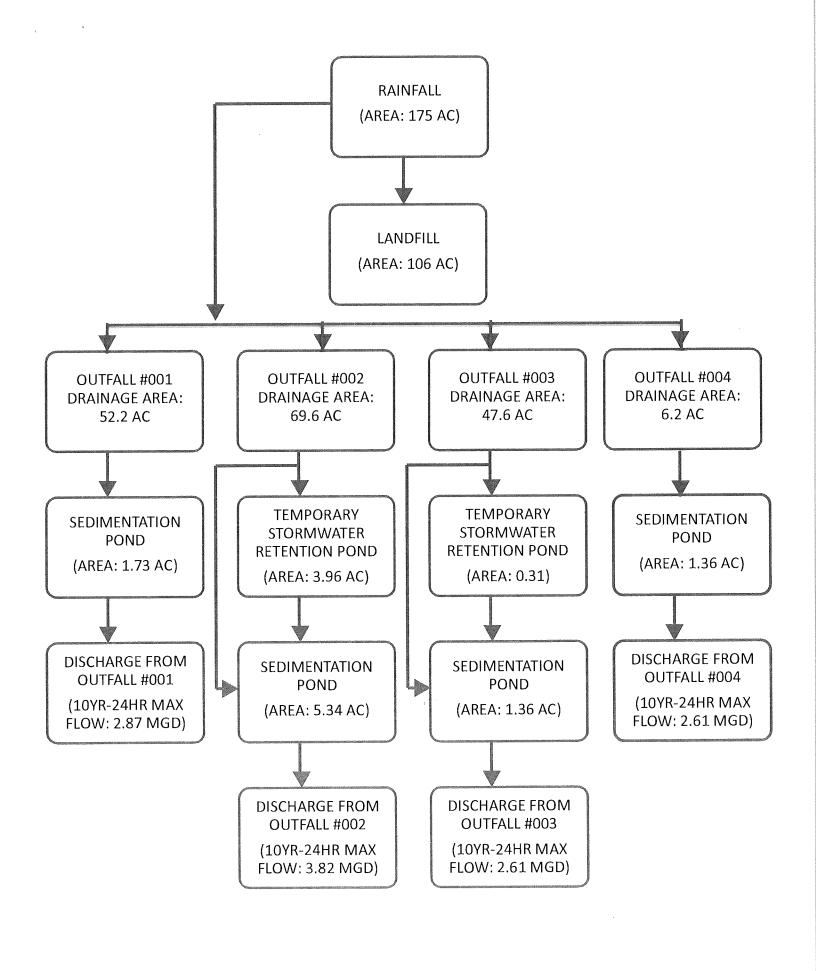
For new permits: https://magic.collectorsolutions.com/magic-ui/payments/mo-natural-resources/591

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 information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

	E AND OFFICIAL TITLE (TYPE OR PRINT)	314-249-9404 DATE SIGNED 04/26/21	NAME AND OFFICIAL TITLE (TYPE OR PRINT) David Vasbinder, Environmental Manager SIGNATURE
		04/26/21	クラー
04/26/21		DATE SIGNED	NATURE
		314-249-9404	vid Vasbinder, Environmental Manager





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

GENERAL INFORMATION (PLEASE SEE INSTRUCTIONS)

1.0 NAME OF FACILITY

Lemons Landfill East

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

MO-0113891

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

NO

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 Solid Waste Landfill with solid waste hauling operations and maintenance. Waste is brought to the facility, weighed and directed to the Subtitle D landfill for disposal. The waste is compacted and covered daily. Leachate/liquids are removed from the landfill at sumps and pumped to a 250,000 gallon tank and hauled to the local WWTP for disposal. Maintenance to landfill equipment is conducted within the landfill shop and maintenance to the haul trucks is completed within the hauling shop. Outside truck fueling occurs north of the landfill shop. Landfill gases are collected and routed to a 2,000 scfm utility flare located west of the leachate tank.

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.	2. 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	Landfill, Fueling Area, Borrow Area, Leachate	4.2 MGD	Retention/BMP	1-U
	Tank, Utility Flare & Container Storage Areas			
#002	Landfill, and borrow area	4.1 MGD	Retention/BMP	1-U
#003	Landfill, and borrow area	6.2 MGD	Retention/BMP	1-U
#004	Borrow areas and Maintenance Shop	1.11 MGD	Retention/BMP	1-U
	Attach addi	tional pages if necessa	ary.	

2.2 INTE Except fo	RMI or sto	TTENT DISCHAF rmwater runoff, le	RGES eaks, or spills, are	any of the	discharges	s described i	in items 2.0	0 or 2.1 interm	nittent or sea	sonal?
ļ	□ Y	es (complete the	following table)	\square	No (go to s	ection 2.3)				
					COULTION		4.	FLOW		
1.				3. FRE	QUENCY	A. FLOW RA	ATE (in mgd)	B. TOTAL (specify w		C. DURATION
OUTFALL NUMBER		2. OPERATION(S) CON	TRIBUTING 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	(in days)
2.3 PRO	UDC	CTION			,					
			guideline (ELG) p		d by EPA u	nder sectior	n 304 of the	e Clean Water	Act apply to	your
facility?	Indic	ate the part and s	subparts applicabl	e.						
	Yes	40 CFR	Subpart(s	s)	🗸	No (go to se	ection 2.5)			
B. Are t below.	he lir	mitations in the eff	fluent guideline(s)	expresse	d in terms o	of production	n (or other	measure of op	peration)? De	escribe in C
	Yes	(complete C.)	☑ No	(go to sec	tion 2.5)					
C. If you	u ans ed in	swered "yes" to B, the terms and un	list the quantity rits used in the ap	epresentin plicable ef	ng an actua fluent guide	I measureme	ent of your licate the a	maximum lev	el of products.	tion,
A. OUTFAL	L(S)	B. QUANTITY PER DAY	C. UNITS OF MEASURE	:		D. OPERATION	N, PRODUCT, M	MATERIAL, ETC. (specify)	
2.4 IMPR	20VE	MENTS		1						
A. A u a	Are y upgra	ou required by an ading, or operation the discharges do	y federal, state, o n of wastewater tr escribed in this ap enforcement con	eatment ed oplication?	quipment or This inclu	r practices o des, but is n	r any othe ot limited t	r environment o, permit cond	al programs litions, admi	which may nistrative
☐ Ye	es (c	omplete the follow	ving table)	V	No (go to	2.6)				
		ION OF CONDITION, MENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF	DESCRIPTION O	F PROJECT		4. FINAL CO	MPLIANCE DATE B. PROJECTED
									A. REQUIRED	B, FROJECTED
l c	oroje	cts which may affe	w or attach addition ect discharges. In construction. This	dicate whe	ether each j	program is ι	ınderway o	r planned, an	other enviro d indicate ac	nmental ctual or

information for any haule	any industrial or domestic bio	, volume, and methods		our facility. Include names and contact on, landfilling, composting, etc) used. See
DATA COLLECTION AN	D REPORTING REQUIRE	MENTS FOR APPLICA	NTS	
3.0 EFFLUENT (AND IN	TAKE) CHARACTERISTICS	S (SEE INSTRUCTIONS	S)	
				(and intake) – annotate the outfall (intake) e intake data unless required by the
believe is discharged	ow to list any pollutants liste or may be discharged from asons you believe it to be pi	any outfall not listed in p	arts 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)
3.1 Whole Effluent Toxic	ity Testing			
	ave any Whole Effluent Tox discharge) within the last th Mo (go to 3.2)	ree years?	performed	on the facility discharges (or on receiving
	<u>F</u> 110 (90 to 0.2)			
any results of toxicity ide	ntification evaluations (TIE)	or toxicity reduction eva	ıluations (`	ns tested, and the testing results. Provide TRE) if applicable. Please indicate the ps the facility is taking to remedy the
3.2 CONTRACT ANALYS	SIS INFORMATION			
•	•	•		ntract laboratory or consulting firm?
✓ Yes (list the name,	address, telephone numbe		ed by eacr	n laboratory or firm.) No (go to 4.0)
A. LAB NAME	B. ADDRESS	C. TELEPHONE (area code and number)		D. POLLUTANTS ANALYZED (list or group)
Pace Analyticial	7901 W. Morris St. Indianapolis, IN 46231	317-243-8304		&G, pH, Settable Solids, TSS, Arsenic, Chromium (VI), Copper, Iron, Manganese,
				n, Silver, Thalium, Zinc, Ammonia, orus, Benzene, Ethylbenzene, Fluoride

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.

1			,
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		Veg, soil, unpaved roads	Terraces, perimeter channels, letdowns, retention pond, silt fencing, filter sock
#002		Veg, soil, unpaved roads	Terraces, perimeter channels, letdowns, retention ponds silt fencing, filter sock
#003		Veg, soil, unpaved roads	Terraces, perimeter channels, letdowns, retention ponds silt fencing, filter sock
#004		Veg, Soil, Paved parking/roads	Drainage channels, fitler socks, silt fencing, retention pond
			N

4.2 STORMWATER FLOWS

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

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 PRINT)	TELEPHONE NUMBER WITH AREA CODE
David Vasbinder, Environmental Manager	314-249-9404
SIGNATURE (SEE INSTRUCTIONS)	DATE SIGNED
J-V	04/26/21

FOR 3.0 - ITEMS A AND B TABLE 1 FORM C

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.

EFFLUENT (AND INTAKE) CHARACTERISTICS	(E) CHARACTERIS		THIS OUTFALL IS: 001	201				OUTFALL NO. 001	
3.0 PART A - You must provide the results of at least one analysis	provide the results	of at least one analy	sis for every pollutar	it in Part A. Comple	for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.	outfall or proposed	outfall. See	instructions.	
				2. VALUES			-	3. UNITS (specify if blank)	cify if blank)
1. POLLUTANT	A. MAXIMUM	A. MAXIMUM DAILY VALUE	В. МАХІМИМ З	B. MAXIMUM 30 DAY VALUES	C. LONG TERM AVERAGE VALUES	/ERAGE VALUES	D. NO. OF	A. CONCEN-	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BODs)	12	204	12	204	<2		12	mg/L	
B. Chemical Oxygen Demand (COD)	61.5				<10			mg/L	
C. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
D. Total Suspended Solids (TSS)	426							mg/L	
E. Ammonia as N	1.7								
F. Flow	VALUE 4.5		VALUE 4.5		VALUE .19			MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY D)
G. Temperature (winter)	VALUE 52		VALUE 52		VALUE 52			Ϋ́	
H. Temperature (summer)	VALUE 78		VALUE 78		VALUE 78			٦,	
I. pH	MINIMUM 7.5		MAXIMUM 8.5		AVERAGE 7.6			STANDARD UNITS (SU)	INITS (SU)

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.

parameters not used here in Fait 3.0 o.	פוורם										
History	2. MARK "X"	.χ., χε				3. VALUES				4. UNITS	TS
AND CAS NUMBER	A BELIEVED	æi	A. MAXIMUM DAILY VALUE	AILY VALUE	B. MAXIMUM 30 DAY VALUES	0 DAY VALUES	C. LONG TERM AVERAGE VALUES	ERAGE VALUES	D. NO. OF	A, CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Nor	Conver-	itional Pollutants								
A. Alkalinity (CaCO ₃)	×		MINIMUM N/A		MINIMUM		MINIMUM				
B. Bromide (24959-67-9)		×						ereneiste der der der der der der der der der de			
C. Chloride (16887-00-6)	×										
D. Chlorine, Total Residual		×									
E. Color		×									
F. Conductivity	×		361		361		361		_		nmhos/cm
F. Cyanide, Amenable to Chlorination		×									

	2. MA	2. MARK "X"				3. VALUES				4. UNITS	ITS
1. POLLUTANT AND CAS NUMBER			A. MAXIMUM DAILY VA	I DAILY VALUE	B. MAXIMUM	MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE			
	A. BELIEVED PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	A. CONCENT	B. MASS
Subpart 1 - Conventiona	al and No	on-Conve	Conventional and Non-Conventional Pollutants (Continued)	(Continued)						-	
G. E. colí		×									
H. Fluoride (16984-48-8)	×		4.3	73	4.3	73	1.6	1.2	6	l/gm	kg
I. Nitrate plus Nitrate (as N)		×									
J. Kjeldahl, Total (as N)		×									
K. Nitrogen, Total Organic (as N)		×									
L. Oil and Grease		×	<5		<5		<5		6	mg/L	
M. Phenols, Total		×		ſ							
N. Phosphorus <i>(as P)</i> , Total (7723-14-0)		×									
O. Sulfate (as SO ⁴) (14808-79-8)		×									
P. Sulfide (as S)		×									
O. Sulfite (as SO³) (14265-45-3)		×									
R. Surfactants		×									
S. Trihalomethanes, Total		×									
Subpart 2 - Metals		:									
1M. Aluminum, Total Recoverable (7429-90-5)		×									
2M. Antimony, Total Recoverable (7440-36-9)		×	9>						6	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	×		7.3	0.12	7.3	0.12	5.2	0.004	6	ng/L	kg
4M. Barium, Total Recoverable (7440-39-3)	×		202	3.4	202	3.4	124	60.0	6	ng/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		×	4 >					<4	6	ug/L	kg
6M. Boron, Total Recoverable (7440-42-8)		×					~~~				
7M. Cadmium, Total Recoverable (7440-43-9)		×	<2					7	б	ng/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	×		33	.56	33	.562	<10		6	ng/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		×	<10							ng/L	
10M. Cobalt, Total Recoverable (7440-48-4)		×									

	2. MA	2. MARK "X"				3. VALUES				4. UNITS	ITS
1. POLLUTANT AND CAS NUMBER	A RELIEVED	1	A. MAXIMUM	A. MAXIMUM DAILY VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	tinued)										
11M. Copper, Total Recoverable (7440-50-8)	×		59.5	1.01	59.5	1.01	28.5	0.02	7	ng/L	kg
12M. Iron, Total Recoverable (7439-89-6)	×		22.700	386	22,700	386	3890	2.84	10	ng/L	kg
13M. Lead, Total Recoverable (7439-92-1)		×	<10				<10			ng/L	
14M. Magnesium, Total Recoverable (7439-95-4)		×									
15M. Manganese, Total Recoverable (7439-96-5)	×		627	10.7	627	10.7	327	.24	6	ng/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		×	<0.20				<0.20				
17M. Methylmercury (22967926)		×							10		
18M. Molybdenum, Total Recoverable (7439-98-7)		×									
19M. Nickel, Total Recoverable (7440-02-0)	×		24.3	0.41	24.3	0.41	<10		o	ug/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		×	<1.0				<1.0		6	ng/L	kg
21M. Silver, Total Recoverable (7440-22-4)		×	<0.5				<0.5		6	ng/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		×	<1.0				<1.0		o	ug/L	kg
23M. Tin, Total Recoverable (7440-31-5)		×									
24M. Titanium, Total Recoverable (7440-32-6)		×									
25M. Zinc, Total Recoverable (7440-66-6)	×		72.9	1.24	72.9	1.24	40	.03	82	ng/L	kg
Subpart 3 - Radioactivity	ý										
1R. Alpha Total		×									
2R. Beta Total		×									
3R. Radium Total		×						Annual to the state of the stat			
4R. Radium 226 plus 228 Total		×									

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) STANDARD UNITS (SU) Ϋ́ OUTFALL NO. 001 Ļ 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 ٨ D. NO. OF ANALYSES **∀** Z 7 (2) MASS C. LONG TERM AVERAGE VALUES A/N (1) CONCENTRATION AVERAGE 7.6 6 78 52 VALUE VALUE VALUE 7 ΑX $^{\circ}_{7}$ (Z) MASS B. MAXIMUM 30 DAY VALUES 2. VALUES Α/N 204 THIS OUTFALL IS: (1) CONCENTRATION 8.5 4.5 78 52 MAXIMUM VALUE VALUE VALUE ΑX 7 (2) MASS A. MAXIMUM DAILY VALUE EFFLUENT (AND INTAKE) CHARACTERISTICS 204 ΑX (1) CONCENTRATION 4.5 MINIMUM 7.5 22 78 VALUE VALUE 61.5 VALUE Ν 7 B. Chemical Oxygen Demand (COD) (summer) D. Total Suspended Solids (TSS) G. Temperature (winter) Total Organic Carbon A. Biochemical Oxygen Demand, 5-day (BODs) 1. POLLUTANT E. Ammonia as N H. Temperature F. Flow

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.

HNOCK	2. MA	2. MARK "X"			1	3. VALUES				4. UNITS	ITS
ER -	A BELIEVED		A. MAXIMUM DAILY VA	VILY VALUE	B. MAXIMUM 30 DAY VALUES	DAYVALUES	C. LONG TERM AVERAGE VALUES	ERAGE VALUES		A. CONCEN-	
(if available)	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	al and No	n-Conver	ntional Pollutants								
A. Alkalinity (CaCO ₃)	×		MINIMUM N/A		MINIMUM		Мімімим				
B. Bromide (24959-67-9)		×									
C. Chloride (16887-00-6)	×			All models of the second of th		- LOGING - ADDISONA PRIVILEY PRI		а писанта ва так в Минаса се везода се постава се			
D. Chlorine, Total Residual		×									
E. Color		×									
F. Conductivity	×		361		361	- And Andrews -	361		-		nmhos/cm
F. Cyanide, Amenable to Chlorination		×									

	2. MA	2. MARK "X"				3. VALUES				4. UNITS	ITS
1. POLLUTANT AND CAS NUMBER	(a)(a) 13a v			A. MAXIMUM DAILY VALUE	B. MAXIMUM	MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE	NO OF	A CONCIN	
	PRESENT	ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 – Conventions	al and Nc	n-Convei	Conventional and Non-Conventional Pollutants (Contin	(Continued)							
G. E. coli		×									
H. Fluoride (16984-48-8)	×		4.3	73	4.3	73	1.6	1.2	თ	mg/l	kg
I. Nitrate plus Nitrate (as N)		×									
J. Kjeldahl, Total (as N)		×		ſ							
K. Nitrogen, Total Organic (as N)		×									
L. Oil and Grease		×	\$		<5		\$		6	mg/L	
M. Phenols, Total		×									
N. Phosphorus (as P), Total (7723-14-0)		×									
O. Sulfate (as SO ⁴) (14808-79-8)	100000000000000000000000000000000000000	×									
P. Sulfide (as S)		×									
Q. Sulfite (as SO³) (14265-45-3)		×									
R. Surfactants		×									
S. Trihalomethanes, Total		×								-	
Subpart 2 - Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		×									
2M. Antimony, Total Recoverable (7440-36-9)		×	9>						6	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	×		7.3	0.12	7.3	0.12	5.2	0.004	6	ng/L	kg
4M. Barium, Total Recoverable (7440-39-3)	×		202	3.4	202	3.4	124	60.0	6	ng/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		×	4>					4 7	6	ng/L	kg
6M. Boron, Total Recoverable (7440-42-8)		×									
7M. Cadmium, Total Recoverable (7440-43-9)		×	<2					<2	o	ng/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	×		33	.56	33	.562	<10		0	ng/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		×	<10							ng/L	
10M. Cobalt, Total Recoverable (7440-48-4)		×									

	2. MA	2. MARK "X"				3. VALUES				4. UNITS	TS
AND CAS NUMBER	A. BELIEVED	1	A. MAXIMUM DAILY VAI	DAILY VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE	C, LONG TERM A	C. LONG TERM AVERAGE VALUE	D. NO. OF	A. CONCEN-	
	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	inued)										
11M. Copper, Total Recoverable (7440-50-8)	×		59.5	1.01	59.5	1.01	28.5	0.02	2	ng/L	kg
12M. Iron, Total Recoverable (7439-89-6)	×		22.700	386	22,700	386	3890	2.84	10	ng/L	kg
13M. Lead, Total Recoverable (7439-92-1)		×	<10				<10			ug/L	
14M. Magnesium, Total Recoverable (7439-95-4)		×									
15M. Manganese, Total Recoverable (7439-96-5)	×		627	10.7	627	10.7	327	.24	6	ng/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		×	<0.20				<0.20				
17M. Methylmercury (22967926)		×									
18M. Molybdenum, Total Recoverable (7439-98-7)		×									
19M. Nickel, Total Recoverable (7440-02-0)	×		24.3	0.41	24.3	0.41	<10		6	ng/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		×	<1.0				<1.0		6	ng/L	kg
21M. Silver, Total Recoverable (7440-22-4)		×	<0.5				<0.5		6	ng/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		×	<1.0				<1.0		6	ng/L	kg
23M. Tin, Total Recoverable (7440-31-5)		×									
24M. Titanium, Total Recoverable (7440-32-6)		×									
25M. Zinc, Total Recoverable (7440-66-6)	×		72.9	1.24	72.9	1.24	40	.03	8	ng/L	kg
Subpart 3 – Radioactivity											
1R. Alpha Total		×									
2R. Beta Total		×									
3R. Radium Total		×									
4R. Radium 226 plus 228 Total		×									

FOR 3.0 - ITEMS A AND B TABLE 1 FORM C

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.

EFFLUENT (AND INTAKE) CHARACTERISTICS	(E) CHAF	RACTERI	STICS	THIS OUTFALL IS: 001	L IS: 001					OUTFALL NO. 001	10
3.0 PART A - You must provide the	provide t	he results of	at least one	lysis for every p	ollutant in	Part A. Comple	analysis for every pollutant in Part A. Complete one table for each outfall or proposed outfall. See instructions.	h outfall or propose	d outfall. See	instructions.	
					2.	2. VALUES				3. UNITS (S	3. UNITS (specify if blank)
1. POLLUTANT		A. MAXIMUN	A. MAXIMUM DAILY VALUE	B. MA	MAXIMUM 30 DAY VALUES	Y VALUES	C. LONG TERM	C. LONG TERM AVERAGE VALUES	ON OF	NHONOO.	
	(1) CONC	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	VOILY	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BODs)	12		204	12	204	4	<2		12	mg/L	
B. Chemical Oxygen Demand (COD)	61.5						<10			mg/L	
C. Total Organic Carbon (TOC)	N/A		N/A	N/A	N/A	٨	N/A	N/A	A/N	N/A	N/A
D. Total Suspended Solids (TSS)	426									mg/L	•
E. Ammonia as N	1.7										
F. Flow	VALUE ,	4.5		VALUE 4.5			VALUE .19			MILLIONS OF GA	MILLIONS OF GALLONS PER DAY (MGD)
G. Temperature (winter)	VALUE	52		VALUE 52			VALUE 52				ų.
H. Temperature (summer)	VALUE	78		VALUE 78			VALUE 78	With A Mary Principle Control of the	THE PERSON NAMED IN COLUMN NAM		4.
I. pH	MINIMUM 7.5	7.5		MAXIMUM 8.5		more recoverable demost recoverable demost designated d	AVERAGE 7.6		***************************************	STANDARD	STANDARD UNITS (SU)
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.	in column Itant, you re in Part	2A for eamust provided.	ach pollutant you kn vide the results for a	ow or have reas at least one anal	son to beli Iysis for th	eve is present. e pollutant. Cor	Mark "X" in column ; nplete one table for	2B for each pollutan each outfall (intake)	t you believe I. Provide res	to be absent ults for additi	If you mark onal
High	2. MA	2. MARK "X"				3. VALUES				4. ∪	4. UNITS
AND CAS NUMBER	A RFI IFVED	1	A. MAXIMUM DAILY VALUE	LYVALUE	B. MA.	B. MAXIMUM 30 DAY VALUES		C. LONG TERM AVERAGE VALUES	D. NO. 0F	A. CONCEN-	
(if available)	PRESENT	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	ATION MASS	SS CONCENTRATION	ION MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	al and Nc	n-Conven	itional Pollutants								
A. Alkalinity (CaCO ₃)	×		MINIMUM N/A	V	MINIMUM		MINIMUM				
B. Bromide (24959-67-9)		×									
C. Chloride (16887-00-6)	×		Troping Cr.								
D. Chlorine, Total Residual		×									
E. Color		×									
F. Conductivity	×		361	- *	361		361		~		nmhos/cm
F. Cyanide, Amenable to Chlorination		×									

	2. MAI	2. MARK "X"				3. VALUES				4. UNITS	IITS
1. POLLUTANT AND CAS NUMBER	() () () () () () () () () ()			A. MAXIMUM DAILY VALUE	B. MAXIMUM 3	MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE	ON ON	A CONCEN.	
(if available)	A. BELIEVED	BELIEVED	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants (Contin	al and No	n-Conve	ntional Pollutants	s (Continued)							
G. E. coli		×									
H. Fluoride (16984-48-8)	×		4.3	73	4.3	73	1.6	1.2	ō	l/gm	kg
I. Nitrate plus Nitrate (as N)		×									
J. Kjeldahl, Total (as N)		×									
K. Nitrogen, Total Organic (as N)		×									
L. Oil and Grease		×	<5		<5		<5		6	mg/L	
M. Phenols, Total		×									
N. Phosphorus <i>(as P)</i> , Total (7723-14-0)		×									
O. Sulfate (as SO ⁴) (14808-79-8)		×									
P. Sulfide (as S)		×									
Q. Sulfite (as SO³) (14265-45-3)		×									
R. Surfactants		×									
S. Trihalomethanes, Total		×									
Subpart 2 - Metals											
1M. Aluminum, Total Recoverable (7429-90-5)		×									
2M. Antimony, Total Recoverable (7440-36-9)		×	9>						თ	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	×		7.3	0.12	7.3	0.12	5.2	0.004	ō	ng/L	kg
4M. Barium, Total Recoverable (7440-39-3)	×		202	3.4	202	3.4	124	60.0	თ	ng/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		×	-24					44	6	ng/L	kg
6M. Boron, Total Recoverable (7440-42-8)		×									
7M. Cadmium, Total Recoverable (7440-43-9)		×	<2					\$	б	ug/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	×		33	.56	33	.562	<10		6	ng/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		×	<10	11444						ng/L	
10M. Cobalt, Total Recoverable (7440-48-4)		×									

	2. MA	2. MARK "X"				3, VALUES				4. UNITS	TS
AND CAS NUMBER	A RELIEVED	1	A. MAXIMUM	A. MAXIMUM DAILY VALUE	B. MAXIMUM:	B. MAXIMUM 30 DAY VALUE	C. LONG TERM !	C. LONG TERM AVERAGE VALUE	D. NO. OF	A. CONCEN-	
	PRESENT	BELJEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	ntinued)										
11M. Copper, Total Recoverable (7440-50-8)	×		59.5	1.01	59.5	1.01	28.5	0.02	7	ng/L	kg
12M. Iron, Total Recoverable (7439-89-6)	×		22.700	386	22,700	386	3890	2.84	10	ng/L	kg
13M. Lead, Total Recoverable (7439-92-1)		×	<10			0.00	<10	The second control of		ng/L	
14M. Magnesium, Total Recoverable (7439-95-4)		×									
15M. Manganese, Total Recoverable (7439-96-5)	×		627	10.7	627	10.7	327	.24	O	ng/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		×	<0.20				<0.20				
17M. Methylmercury (22967926)		×									
18M. Molybdenum, Total Recoverable (7439-98-7)		×									
19M. Nickel, Total Recoverable (7440-02-0)	×		24.3	0.41	24.3	0.41	<10		0	ng/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		×	<1.0				<1.0		o	ng/L	kg
21M. Silver, Total Recoverable (7440-22-4)	4:	×	<0.5				<0.5		6	ng/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		×	<1.0				<1.0		6	ng/L	kg
23M. Tin, Total Recoverable (7440-31-5)		×									
24M. Titanium, Total Recoverable (7440-32-6)		×									
25M. Zinc, Total Recoverable (7440-66-6)	×		72.9	1.24	72.9	1.24	40	.03	8	ng/L	kg
Subpart 3 - Radioactivity	,										
1R. Alpha Total		×									
2R. Beta Total		×									
3R. Radium Total		×									
4R. Radium 226 plus 228 Total		×		:							

FORM C TABLE 1 FOR 3.0 - ITEMS A AND B

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.

EFFLUENT (AND INTAKE) CHARACTERISTICS	(E) CHARACTERIS		THIS OUTFALL IS: 001	001				OUTFALL NO. 001	
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.	provide the results (of at least one analy.	sis for every pollutar	nt in Part A. Complei	e one table for each	outfall or proposed	outfall. See	instructions.	
		-		2. VALUES				3. UNITS (specify if blank)	cify if blank)
1. POLLUTANT	А. МАХІМИМ	A. MAXIMUM DAILY VALUE	B. MAXIMUM 3	B. MAXIMUM 30 DAY VALUES	C. LONG TERM AVERAGE VALUES	/ERAGE VALUES	G C R C	A. CONCEN-	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	ANALYSES	TRATION	B. MASS
A. Biochemical Oxygen Demand, 5-day (BOD ₅)	12	204	12	204	<2		12	mg/L	
B. Chemical Oxygen Demand (COD)	61.5				<10			mg/L	
C. Total Organic Carbon (TOC)	N/A	N/A	N/A	N/A	N/A	N/A	A/N	A/A	N/A
D. Total Suspended Solids (TSS)	426							mg/L	
E. Ammonia as N	1.7								
F. Flow	VALUE 4.5		VALUE 4.5		VALUE .19			MILLIONS OF GALLONS PER DAY (MGD)	LONS PER DAY)
G. Temperature (winter)	VALUE 52		VALUE 52		VALUE 52			ц	
H. Temperature (summer)	VALUE 78		VALUE 78		VALUE 78			Ļ.	
I. pH	MINIMUM 7.5		MAXIMUM 8.5		AVERAGE 7.6			STANDARD UNITS (SU)	INITS (SU)

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.

1	2. MARK "X"	4Κ "Χ"				3. VALUES				4. UNITS	TS
AND CAS NUMBER	A BELIEVED	1	A. MAXIMUM DAILY VALUE	AILY VALUE	B. MAXIMUM 30 DAY VALUES	DAYVALUES	C. LONG TERM AVERAGE VALUES	ERAGE VALUES	NO OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventional and Non-Conventional Pollutants	and No	n-Conver	ntional Pollutants								
A. Alkalinity (CaCO ₃)	×		MINIMUM N/A		Мімімим		Мімімим				
B. Bromide (24959-67-9)		×									
C. Chloride (16887-00-6)	×										
D. Chlorine, Total Residual		×									
E. Color		×									
F. Conductivity	×		361		361		361		-		umhos/cm
F. Cyanide, Amenable to Chlorination		×						. He dermond a commence of the contract of the			

	2. MA	2. MARK "X"				3. VALUES				4. UNITS	ITS
1. POLLUTANT AND CAS NUMBER	00/00		A. MAXIMUN	A. MAXIMUM DAILY VALUE	B. MAXIMUM	B. MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE	2	NE CINCO	
	A. BELIEVED PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 1 - Conventiona	l and No	n-Conver	Conventional and Non-Conventional Pollutants (Conti	s (Continued)							
G. E. coli		×									
H. Fluoride (16984-48-8)	×		4.3	73	4.3	73	1.6	1.2	0	l/gm	kg
1. Nitrate plus Nitrate (as N)		×									
J. Kjeldahl, Total (as N)		×									
K. Nitrogen, Total Organic (as N)		×									
L. Oil and Grease		×	<5		<5		<5		თ	mg/L	
M. Phenols, Total		×									
N. Phosphorus (as P), Total (7723-14-0)		×									
O. Sulfate (as SO ⁴) (14808-79-8)		×									
P. Sulfide (as S)		×									
Q. Sulfite (as SO³) (14265-45-3)		×									
R. Surfactants		×									
S. Trihalomethanes, Total		×									
Subpart 2 - Metals										The state of the s	1
1M. Aluminum, Total Recoverable (7429-90-5)		×									
2M. Antimony, Total Recoverable (7440-36-9)		×	9>						6	mg/L	
3M. Arsenic, Total Recoverable (7440-38-2)	×		7.3	0.12	7.3	0.12	5.2	0.004	6	ug/L	kg
4M. Barium, Total Recoverable (7440-39-3)	×		202	3.4	202	3.4	124	0.09	6	ug/L	kg
5M. Beryllium, Total Recoverable (7440-41-7)		×	4 >					<4	6	ug/L	kg
6M. Boron, Total Recoverable (7440-42-8)		×									
7M. Cadmium, Total Recoverable (7440-43-9)		×	2					<2	o	ng/L	kg
8M. Chromium III Total Recoverable (16065-83-1)	×		33	.56	33	.562	<10		6	ng/L	kg
9M. Chromium VI, Dissolved (18540-29-9)		×	<10		data.		7	***************************************		ng/L	
10M. Cobalt, Total Recoverable (7440-48-4)		×									

	2. MA	2. MARK "X"				3. VALUES				4. UNITS	ПS
AND CAS NUMBER	A. BELIEVED	1	А. МАХІМИМ	A. MAXIMUM DAILY VALUE	B. MAXIMUM:	B. MAXIMUM 30 DAY VALUE	C. LONG TERM	C. LONG TERM AVERAGE VALUE	D. NO. OF	A. CONCEN-	
(if available)	PRESENT	BELIEVED ABSENT	CONCENTRATION	MASS	CONCENTRATION	MASS	CONCENTRATION	MASS	ANALYSES	TRATION	B. MASS
Subpart 2 - Metals (Continued)	tinued)										
11M. Copper, Total Recoverable (7440-50-8)	×		59.5	1.01	59.5	1.01	28.5	0.02	2	ng/L	kg
12M. Iron, Total Recoverable (7439-89-6)	×		22.700	386	22,700	386	3890	2.84	10	ng/L	kg
13M. Lead, Total Recoverable (7439-92-1)		×	<10				<10			ng/L	
14M. Magnesium, Total Recoverable (7439-95-4)		×									
15M. Manganese, Total Recoverable (7439-96-5)	×		627	10.7	627	10.7	327	.24	6	ng/L	kg
16M. Mercury, Total Recoverable (7439-97-6)		×	<0.20				<0.20				
17M. Methylmercury (22967926)		×									
18M. Molybdenum, Total Recoverable (7439-98-7)		×									
19M. Nickel, Total Recoverable (7440-02-0)	×		24.3	0.41	24.3	0.41	<10		6	ng/L	kg
20M. Selenium, Total Recoverable (7782-49-2)		×	<1.0				<1.0		6	ng/L	kg
21M. Silver, Total Recoverable (7440-22-4)		×	<0.5				<0.5		6	ng/L	kg
22M. Thallium, Total Recoverable (7440-28-0)		×	<1.0				<1.0		6	ng/L	kg
23M. Tin, Total Recoverable (7440-31-5)		×									
24M. Titanium, Total Recoverable (7440-32-6)		×									
25M. Zinc, Total Recoverable (7440-66-6)	×		72.9	1.24	72.9	1.24	40	.03	8	ng/L	kg
Subpart 3 - Radioactivity	>					To the second se					
1R. Alpha Total		×									
2R. Beta Total		×									
3R. Radium Total		×									
4R. Radium 226 plus 228 Total		×									