STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

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

Permit No.	MO-0044172
Owner:	City of Lamar
Address:	1104 Broadway Lamar MO 64759
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Lamar Wastewater Treatment Facility
Facility Address:	West Terminus of 19th Street, Lamar MO 64759
Legal Description:	Sec. 36, T32N, R31W, Barton County
UTM Coordinates:	X=386278, Y=4149053
Receiving Stream:	Tributary to North Fork Spring River
First Classified Stream and ID:	8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & Sub-watershed No.:	(11070207-0206)

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

FACILITY DESCRIPTION

<u>Outfall #001</u> – POTW – SIC #4952 The use or operation of this facility shall be by or under the supervision of a Certified "C" Operator. Single cell lagoon / synthetic media filters / two aerated gravel cells for nitrification /Ultraviolet Disinfection/ Sludge is retained in lagoon. Design population equivalent is 5,107. Design flow is 770,000 gallons per day. Actual flow is 624,000 gallons per day. Design sludge production is 135 dry tons/year.

This permit authorizes only wastewater and stormwater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 621.250 RSMo, Section 640.013 RSMo and Section 644.051.6 of the Law.

December 1, 2018 Effective Date March 30, 2023 Modification Date

March 31, 2023 Expiration Date

John H Chief, Water Pollution Control Branch

OUTFALL <u>#001</u>

TABLE A-1 FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on **December 1, 2018** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

		FINAL EFF	LUENT LIN	IITATIONS	MONITORING REQUIREMENTS			
EFFLUENT PARAMETER(S)	UNITS	DAILY WEEKLY MAXIMUM AVERAGE		MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE		
Flow	MGD	*		*	once/weekday***	24 hr. total		
E. coli (Note 1, Page 3)	#/100mL		1,030	206	once/week	grab		
MONITORING REPORTS SHALL BE SUBMI' NO DISCHARGE OF FLOATING SOLIDS OR						RE SHALL BE		
Biochemical Oxygen Demand5	mg/L		45	30	once/quarter****	composite*		
Total Suspended Solids	mg/L		45	30	once/quarter****	composite*		
Ammonia as N (Apr 1 – Sep 30) (Oct 1 – Mar 31)	mg/L	5.3 11.1	1.3 2.7		once/quarter****	grab		
Fotal Phosphorus	mg/L	*		*	once/quarter****	grab		
Total Nitrogen	mg/L	*	* once/qua		once/quarter****	grab		
Dil & Grease	mg/L	15		10	once/quarter****	grab		
Fotal Hardness	mg/L	*		*	once/quarter****	grab		
Cyanided, Amendable to Chlorine (Note 2 Page 3)	μg/L	<10		<10	once/quarter****	grab		
Chromium III, Total Recoverable	μg/L	*		*	once/quarter****	grab		
Chromium VI, Dissolved	μg/L	*		*	once/quarter****	grab		
Copper, Total Recoverable	µg/L	25.4	8.0		once/quarter****	grab		
ron, Total Recoverable	µg/L	*	*		* *		once/quarter****	grab
Zinc, Total Recoverable	μg/L	204.6		65.1	once/quarter****	grab		
MONITORING REPORTS SHALL BE SUBMI	ГТЕD <u>QUART</u>	ERLY; THE F	FIRST REPOR	RT IS DUE <u>AP</u>	<u>RIL 28, 2019</u> .			

EFFLUENT PARAMETER(S)	UNITS	MINIMUM	MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units***	SU	6.5	9.0	once/quarter****	grab

MONITORING REPORTS SHALL BE SUBMITTED QUARTERLY; THE FIRST REPORT IS DUE APRIL 28, 2019.

* Monitoring requirement only.

** A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

*** pH is measured in pH units and is not to be averaged.

**** See table on Page 3 for quarterly sampling requirements.

OUTFALL <u>#001</u>

TABLE A-1. (continued) FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on **December 1, 2018** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	UNITS	MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
Biochemical Oxygen Demand ₅ – Percent Removal (Note 3, Page 3)	%	85	once/quarter****	calculated
Total Suspended Solids – Percent Removal (Note 3, Page 3)	%	85	once/quarter****	calculated

MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u>; THE FIRST REPORT IS DUE <u>APRIL 28, 2019</u>.

* Monitoring requirement only.

** A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

*** pH is measured in pH units and is not to be averaged.

**** See table below for quarterly sampling requirements.

	Quarterly Minimum Sampling Requirements								
Quarter	Months	Report is Due							
First	January, February, March	Sample at least once during any month of the quarter	April 28th						
Second	April, May, June	Sample at least once during any month of the quarter	July 28th						
Third	July, August, September	Sample at least once during any month of the quarter	October 28th						
Fourth	October, November, December	Sample at least once during any month of the quarter	January 28th						

Note 1 - Effluent limitations and monitoring requirements for *E. coli* are applicable only during the recreational season from April 1 through October 31. The Monthly Average Limit for *E. coli* is expressed as a geometric mean. The Weekly Average for *E. coli* will be expressed as a geometric mean if more than one (1) sample is collected during a calendar week (Sunday through Saturday).

Note 2 – This effluent limit is below the accepted minimum quantification level (ML). The Department has determined the current acceptable ML of Cyanide amenable to chlorination to be 10 μ g/L when using SM 4500-CN⁻G. <u>Cyanides Amenable to Chlorination</u> <u>after Distillation</u> in *Standard Methods for the Examination of Water and Wastewater*, 22nd Edition. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. Measured values greater than or equal to the minimum quantification level of 10 μ g/L will be considered violations of the permit and values less than the minimum quantification level of 10 μ g/L will be considered to be in compliance with the permit limitation. The minimum quantification level does not authorize the discharge of Cyanide in excess of the effluent limits stated in the permit.

Note 3 – Influent sampling is not required when the facility does not discharge effluent during the reporting period. Samples are to be collected prior to any treatment process. Percent Removal is calculated by the following formula: [(Average Influent – Average Effluent) / Average Influent] x 100% = Percent Removal. Influent and effluent samples are to be taken during the same month. The Average Influent and Average Effluent values are to be calculated by adding the respective values together and dividing by the number of samples taken during the month. Influent samples are to be collected as a grab sample.

OUTFALL <u>#001</u>

TABLE A-2. WHOLE EFFLUENT TOXICITY FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective on **December 1, 2018** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	LINUTS	FINAL EFI	FLUENT LIM	ITATIONS	MONITORING REQUIREMENTS		
	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Acute Whole Effluent Toxicity (Note 4)	TUa	*			once/permit cycle	composite**	

MONITORING REPORTS SHALL BE SUBMITTED ONCE PER PERMIT CYCLE; THE FIRST REPORT IS DUE SEPTEMBER 28, 2022

* Monitoring requirement only.

** A 24-hour composite sample is composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling device.

Note 4 –See Special Condition #22 for additional requirements.

B. STANDARD CONDITIONS

In addition to specified conditions stated herein, this permit is subject to the attached <u>Parts I, II, & III</u> standard conditions dated <u>August 1, 2014, May 1, 2013, and March 1, 2015, and hereby incorporated as though fully set forth herein.</u>

C. SPECIAL CONDITIONS

1. Electronic Discharge Monitoring Report (eDMR) Submission System.

Once the permittee is activated in the eDMR system:

- (a) Discharge Monitoring Reporting Requirements. The permittee must electronically submit compliance monitoring data via the eDMR system. In regards to Standard Conditions Part I, Section B, #7, the eDMR system is currently the only Department approved reporting method for this permit.
- (b) Programmatic Reporting Requirements. The following reports (if required by this permit) must be electronically submitted as an attachment to the eDMR system until such a time when the current or a new system is available to allow direct input of the data:
 - (1) Collection System Maintenance Annual Reports;
 - (2) Sludge/Biosolids Annual Reports;
 - (3) Pretreatment Program Reports;
 - (4) Any additional report required by the permit excluding bypass reporting.

After such a system has been made available by the Department, required data shall be directly input into the system by the next report due date.

- (c) Other actions. The following shall be submitted electronically after such a system has been made available by the Department:
 - (1) Notices of Termination (NOTs);
 - (2) No Exposure Certifications (NOEs);
 - (3) Bypass reporting, See Special Condition #11 for 24-hr. bypass reporting requirements.
- (d) Electronic Submissions. To access the eDMR system, use the following link in your web browser: <u>https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx</u>.
- (e) Waivers from Electronic Reporting. The permittee must electronically submit compliance monitoring data and reports unless a waiver is granted by the Department in compliance with 40 CFR Part 127. The permittee may obtain an electronic reporting waiver by first submitting an eDMR Waiver Request Form: <u>http://dnr.mo.gov/forms/780-2692-f.pdf</u>. The Department will either approve or deny this electronic reporting waiver request within 120 calendar days. Only permittees with an approved waiver request may submit monitoring data and reports on paper to the Department for the period that the approved electronic reporting waiver is effective.

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C. SPECIAL CONDITIONS (continued)

- 2. 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, and the Clean Water Act (CWA) section 402(k); however, this permit may be reopened and modified, or alternatively revoked and reissued:
 - (a) To comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D),
 - 304(b)(2), and 307(a)(2) of the CWA, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) To incorporate an approved pretreatment program pursuant to 40 CFR 403.8(a).
- 3. All outfalls must be clearly marked in the field.
- 4. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.
- 5. Report as no-discharge when a discharge does not occur during the report period.
- 6. Changes in existing pollutants or the addition of new pollutants to the treatment facility

The permittee must provide adequate notice to the Director of the following:

- (a) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
- (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- (c) For purposes of this paragraph, adequate notice shall include information on;
 - (1) the quality and quantity of effluent introduced into the POTW, and
 - (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
- 7. Reporting of Non-Detects:
 - (a) An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
 - (b) The permittee shall not report a sample result as "Non-Detect" without also reporting the detection limit of the test. Reporting as "Non Detect" without also including the detection limit will be considered failure to report, which is a violation of this permit.
 - (c) The permittee shall provide the "Non-Detect" sample result using the less than sign and the minimum detection limit (e.g. <10).
 - (d) Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.</p>
 - (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
 - (f) When calculating monthly averages, one-half of the method detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the "<MDL" shall be reported as indicated in item (c).
- 8. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 9. The permittee shall comply with any applicable requirements listed in 10 CSR 20-9, unless the facility has received written notification that the Department has approved a modification to the requirements. The monitoring frequencies contained in this permit shall not be construed by the permittee as a modification of the monitoring frequencies listed in 10 CSR 20-9. To request a modification of the operational control testing requirements listed in 10 CSR 20-9, the permittee shall submit a permit modification and fee to the Department requesting a deviation from the operational control monitoring requirements. If the request is approved, the Department will modify the permit.

C. SPECIAL CONDITIONS (continued)

10. The permittee shall develop and implement a program for maintenance and repair of the collection system. The recommended guidance is the US EPA's Guide for Evaluating Capacity, Management, Operation, And Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems (Document number EPA 305-B-05-002) or the Departments' CMOM Model located at http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc. For additional information regarding the Departments' CMOM Model, see the CMOM Plan Model Guidance document at http://dnr.mo.gov/pubs/pub2574.htm.

The permittee shall also submit a report via the Electronic Discharge Monitoring Report (eDMR) Submission System annually, by January 28th, for the previous calendar year. The report shall contain the following information:

- (a) A summary of the efforts to locate and eliminate sources of excessive infiltration and inflow into the collection system serving the facility for the previous year.
- (b) A summary of the general maintenance and repairs to the collection system serving the facility for the previous year.
- (c) A summary of any planned maintenance and repairs to the collection system serving the facility for the upcoming calendar year. This list shall include locations (GPS, 911 address, manhole number, etc.) and actions to be taken.
- 11. Bypasses are not authorized at this facility unless they meet the criteria in 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3), and with Standard Condition Part I, Section B, subsection 2. Bypasses are to be reported to the Southwest Regional Office during normal business hours or by using the online Sanitary Sewer Overflow/Facility Bypass Application located at: http://dnr.mo.gov/modnrcag/ or the Environmental Emergency Response spill-line at 573-634-2436 outside of normal business hours. Once an electronic reporting system compliant with 40 CFR Part 127, the National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, is available all bypasses must be reported electronically via the new system. Blending, which is the practice of combining a partially-treated wastewater process stream with a fully-treated wastewater process stream prior to discharge, is not considered a form of bypass. If the permittee wishes to utilize blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
- 12. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 13. At least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain closed except when temporarily opened by the permittee to access the facility to perform operational monitoring, sampling, maintenance, or mowing. The gates shall also be temporarily opened for inspections by the Department. The gate shall be closed and locked when the facility is not staffed.
- 14. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
- An Operation and Maintenance (O & M) manual shall be maintained by the permittee and made available to the operator. The O & M manual shall include key operating procedures and a brief summary of the operation of the facility.
- 16. An all-weather access road shall be provided to the treatment facility.
- 17. The discharge from the wastewater treatment facility shall be conveyed to the receiving stream via a closed pipe or a paved or riprapped open channel. Sheet or meandering drainage is not acceptable. The outfall sewer shall be protected against the effects of floodwater, ice or other hazards as to reasonably insure its structural stability and freedom from stoppage. The outfall shall be maintained so that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
- 18. Sludge treatment storage and disposal practices shall be conducted in accordance with Standard Conditions Part III. The permittee shall receive approval for any sludge treatment, storage, or disposal practices not identified in the facility description of the operating permit.
- 19. A minimum of two (2) feet of freeboard must be maintained in each lagoon cell. A lagoon level gauge, which clearly marks the minimum freeboard level, shall be provided in each lagoon cell.
- 20. The berms of the lagoon shall be mowed and kept free of any deep-rooted vegetation, animal dens, or other potential sources of damage to the berms.

C. SPECIAL CONDITIONS (continued)

- 21. The facility shall ensure that adequate provisions are provided to prevent surface water intrusion into the lagoon and to divert stormwater runoff around the lagoon and protect embankments from erosion.
- 22. Acute Whole Effluent Toxicity (WET) tests shall be conducted as follows:
 - (a) Freshwater Species and Test Methods: Species and short-term test methods for estimating the acute toxicity of NPDES effluents are found in the most recent edition of *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* (EPA/821/R-02/012; Table IA, 40 CFR Part 136). The permittee shall concurrently conduct 48-hour, static, non-renewal toxicity tests with the following species:
 - o The fathead minnow, Pimephales promelas (Acute Toxicity EPA Test Method 2000.0).
 - o The daphnid, Ceriodaphnia dubia (Acute Toxicity EPA Test Method 2002.0).
 - (b) Chemical and physical analysis of the upstream control sample and effluent sample shall occur immediately upon being received by the laboratory, prior to any manipulation of the effluent sample beyond preservation methods consistent with federal guidelines for WET testing that are required to stabilize the sample during shipping. Where upstream receiving water is not available or known to be toxic, other approved control water may be used.
 - (c) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
 - (d) The Allowable Effluent Concentration (AEC) for this facility is 100% with the dilution series being: 100%, 50%, 25%, 12.5%, and 6.25%.
 - (e) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
 - (f) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of acute toxic units ($TU_a = 100/LC_{50}$) reported according to the test methods manual chapter on report preparation and test review. The Lethal Concentration 50 Percent (LC_{50}) is the effluent concentration that would cause death in 50 percent of the test organisms at a specific time.
- 23. <u>Pretreatment:</u> The permittee shall implement and enforce its approved pretreatment program in accordance with the requirements of 10 CSR 20-6.100. The approved pretreatment program is hereby incorporated by reference.
 - (a) The permittee shall submit to the Department via the Electronic Discharge Monitoring Report (eDMR) Submission System on or before March 31st of each year a report briefly describing its pretreatment activities during the previous calendar year. At a minimum, the report shall include the following:
 - (1) An updated list of the Permittee's Industrial Users, including their names and addresses, or a list of deletions and additions keyed to a previously submitted list. The Permittee shall provide a brief explanation of each deletion. This list shall identify which Industrial Users are subject to categorical pretreatment Standards and specify which Standards are applicable to each Industrial User. The list shall indicate which Industrial Users are subject to local standards that are more stringent than the categorical Pretreatment Standards. The Permittee shall also list the Industrial Users that are subject only to local Requirements;
 - (2) A summary of the status of Industrial User compliance over the reporting period;
 - (3) A summary of compliance and enforcement activities (including inspections) conducted by the Permittee during the reporting period; and
 - (4) Any other relevant information requested by the Department.
 - (b) Pursuant to 40 CFR 122.44(j)(2)(ii), the permittee shall submit to the Department a written technical evaluation of the need to revise local limits under 40 CFR 403.5(c)(1) by <u>September 1, 2023</u>. Please contact the Department's pretreatment coordinator for further guidance. Should revision of local limits be deemed necessary, it is recommended that revisions follow the US Environmental Protection Agency's guidance document *Local Limits Development Guidance*. EPA833-R04-002A. July 2004.
 - (c) The permittee shall update their pretreatment program to incorporate the requirements of 10 CSR 20-6.100, effective October 30, 2012, which adopted the 2005 "Streamlining" revisions to the federal pretreatment rule, 40 CFR 403. This update will include at the minimum, revisions to city code to incorporate revised rules. The permittee shall submit the draft revision to the pretreatment program along with the draft revisions to the city code to the Department by <u>September 1, 2023</u>, for review and approval. The permittee shall finalize the updates to the pretreatment program and revisions to city code no later than <u>6 months</u> after Department approval of the changes. The permittee shall submit notification of completion to the Department no later than <u>7 months</u> after Department approval.
- 24. <u>Stormwater Pollution Prevention Plan (SWPPP)</u>: Through implementation of the SWPPP, the permittee shalt minimize the release of pollutants in stormwater from the facility to the waters of the state. The SWPPP shall be developed in consultation with the concepts and methods described in the following document: <u>Developing Your Stormwater Pollution Prevention Plan, A</u> <u>Guide for Industrial Operators</u>, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.

C. SPECIAL CONDITIONS (continued)

- (a) The SWPPP must identify any stormwater outfall from the facility and Best Management Practices (BMPs) used to prevent or reduce the discharge of contaminants in stormwater. The stormwater outfalls shall either be marked in the field or clearly marked on a map and maintained with the SWPPP.
- (b) The SWPPP must include a schedule and procedures for a <u>once per month</u> routine site inspection.
 - i. The monthly routine inspection shall be documented in a brief written report, which shall include:
 - i. The person(s) conducting the inspection.
 - ii. The inspection date and time.
 - iii. Weather information for the day of the inspection.
 - iv. Precipitation information for the entire period since the last inspection.
 - v. Description of the discharges observed, including visual quality of the discharges (sheen, turbid, etc.).
 - vi. Condition of BMPs
 - vii. If BMPs were replaced or repaired.
 - viii. Observations and evaluations of BMP effectiveness.
 - ii. Any deficiency observed during the routine inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
 - iii. The routine inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.

iv. The routine inspection reports shall be made available to Department personnel upon request.

(c) The SWPPP must include a schedule and procedures for a <u>once per year</u> comprehensive site inspection.

- (1) The annual comprehensive inspection shall be documented in a written report, which shall include:
 - i. The person(s) conducting the inspection.
 - ii. The inspection date and time.
 - iii. Findings from the areas of your facility that were examined;
 - iv. All observations relating to the implementation of your control measures including:
 - 1. Previously unidentified discharges from the site,
 - 2. Previously unidentified pollutants in existing discharges,
 - 3. Evidence of, or the potential for, pollutants entering the drainage system;
 - 4. Evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall, and
 - 5. Additional control measures needed to address any conditions requiring corrective action identified during the inspection.
 - v. Any required revisions to the SWPPP resulting from the inspection;
 - vi. Any incidence of noncompliance observed or a certification stating that the facility is in compliance with Special Condition C. 24.
- (2) Any deficiency observed during the comprehensive inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
- (3) The comprehensive inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
- (4) The comprehensive inspection reports shall be made available to Department personnel upon request.
- (d) The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested.
- (e) The SWPPP must be reviewed and updated at a minimum once per permit cycle, as site conditions or control measures change.
- 25. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP.
 - (a) Permittee shall adhere to the following minimum Best Management Practices (BMPs):
 - (1) Minimize the exposure of industrial material storage areas, loading and unloading areas, dumpsters and other disposal areas, maintenance activities, and fueling operations to rain, snow, snowmelt, and runoff, by locating industrial materials and activities inside or protecting them with storm resistant coverings, if warranted and practicable.
 - (2) Provide good housekeeping practices on the site to prevent potential pollution sources from coming into contact with stormwater and provide collection facilities and arrange for proper disposal of waste products, including sludge.
 - (3) Implement a maintenance program to ensure that the structural control measures and industrial equipment is kept in good operating condition and to prevent or minimize leaks and other releases of pollutants.
 - (4) Prevent or minimize the spillage or leaks of fluids, oil, grease, fuel, etc. from equipment and vehicle maintenance, equipment and vehicle cleaning, or activities.
 - (5) Provide sediment and erosion control sufficient to prevent or control sediment loss off of the property. This could include the use of straw bales, silt fences, or sediment basins, if needed.
 - (6) Provide stormwater runoff controls to divert, infiltrate, reuse, contain, or otherwise minimize pollutants in the stormwater discharge.
 - (7) Enclose or cover storage piles of salt or piles containing salt, used for deicing or other commercial or industrial purposes.

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- (8) Provide training to all employees who; work in areas where industrial materials or activities are exposed to stormwater, are responsible for stormwater inspections, are members of the Pollution Prevention Team. Training must cover the specific control measures and monitoring, inspection, planning, reporting and documentation requirements of this permit. Training is recommended annually for any applicable staff and whenever a new employee is hired who meets the description above.
- (9) Eliminate and prevent unauthorized non-stormwater discharges at the facility.
- (10) Minimize generation of dust and off-site tracking of raw, final, or waste materials by implementing appropriate control measures.

Missouri Department of Natural Resources Factsheet Addendum For Pretreatment Program Modification #MO-0044472 Lamar WWTF

This addendum gives pertinent information regarding minor/simple modification(s) to the above listed operating permit. An addendum is not an enforceable part of a Missouri State Operating Permit.

In accordance with the state Clean Water Law, Chapter 644, RSMo and the Federal Clean Water Act, the City of Lamar has an approved pretreatment program to meet the requirements of 40 CFR Part 403 and 10 CSR 20-6.100. The Department, as Approval Authority, reviewed the proposed program modifications and, by issuance if this permit, grants its approval as required by 40 CFR 403.18 and 10 CSR 20-6.100.

Part I – Proposed Pretreatment Program Modification

☐ - The Department is not required to public notice this program modification

This is a non-substantial modification of the city's pretreatment program, according to the 40 CFR 403.18(b)(1). These changes do not require public notice.

In a letter dated May 23, 2022, the city requested the pretreatment program be placed in active status following discovery of new categorical industrial users connected to the facility. The Department was provided a Baseline Monitoring Report from the city for a new industrial user, Envision Building Products LLC, which manufactures aluminum rails that consist of aluminum railing and associated parts conveyed through a 6-stage wash system, including: free rinsing alkaline cleaning stage, water rinse, water rinse, free rinsing acid cleaning, reverse osmosis rinse, and paint bonding corrosion resistant surface treatment with a natural gas heater. Additionally, the department was provided a list of non-domestic dischargers to the city's WWTF with potential categorical users and can be found in Appendix B.

Upon the request of the city and the determination being made that Envision Building Products LLC, will be subject to the federal categorical standards for the Metal Finishing Category, 40 CFR 433.17, Pretreatment Standards for New Sources, the Department is modifying the permit to require an industrial pretreatment program, as outlined in Special condition #23.

This operating permit modification will place the city's program in an "active" status because the conditions under which the City is required to establish a pretreatment program under 40 CFR 403.8(a), was determined by the city, does apply following the new industrial user.

Part II – Reason for the NPDES Permit Modification

In accordance with 40 CFR 403.18(e), "all modifications shall be incorporated into the POTW's NPDES permit upon approval. The permit will be modified to incorporate the approved modification in accordance with 40 CFR 122.63(g)." Upon the consent of the permittee, the Director may modify a permit to make the corrections or allowances for changes in the permitted activity listed in this section, without following the procedures of part 124. Any permit modification not processed as a minor modification under this section must be made for cause and with part 124 draft permit and public notice as required in § 122.62. Minor modifications include: (g) Incorporate conditions of a POTW pretreatment program that has been approved in accordance with the procedures in 40 CFR 403.18) as enforceable conditions of the POTW's permits.

MODIFICATION OF PAGE #6 OF THE NPDES FACTSHEET REGARDING THE PRETREATMENT PROGRAM:

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].....

 \boxtimes - At this time the permittee's pretreatment program is reactivated.

Date of addendum: 01/01/2022

Completed by: Brad Allen Industrial Pretreatment Coordinator Water Protection Program 573-522-3454 <u>brad.allen@dnr.mo.gov</u>

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL OF MO-0044172 LAMAR WWTF

The Federal Water Pollution Control Act ("Clean Water Act" Section 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 (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of <u>five</u> (5) years unless otherwise specified.

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 the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

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

This Factsheet is for a Minor

Part I – Facility Information

Facility Type: POTW - SIC #4952

Facility Description: Single cell lagoon/ synthetic media filter/ two aerated gravel cells for nitrification/ Ultraviolet disinfection/ Sludge is retained in lagoon.

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

Application Date:	September 25, 2017
Expiration Date:	March 31, 2018

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE		
#001	1.1935	Secondary	Domestic		

Facility Performance History:

Discharge monitoring reports were review for this facility during the period of August 2014 reporting period until July 2018 reporting period. As the facility submitted a statement of work complete for the facility in August 2014 this period is representative of the current operations at the plant. During this period exceedances were reported for the following: March 2018 Zinc. Total Residual Copper on March 2017, December 2016, March 2016, September 2016. Oil and Grease on September 2016. Total Suspended Solids February 2015 and September 2014 This facility was last inspected on June 14, 2018. The conditions of the facility at the time of inspection were found to be satisfactory.

Comments:

Changes in this permit include a change of acute WET testing frequency to once per permit cycle and the removal of dissolved oxygen monitoring reporting requirements. Minimum detectable level has been changed from $<20 \ \mu g/L$ to $<10 \ \mu g/L$ while the actual numeric effluent limit has not changed. BOD, TSS for both influent and effluent and Ammonia sampling frequencies were reduced to quarterly, this is reflective of the facilities consistent effluent quality for these parameters and good compliance. See Part VI of the Fact Sheet for further information regarding the addition and removal of effluent parameters. As the previous permit was issued for a period of less than a full five years all reasonable potential analysis and calculated water quality based effluent limits have been retained. Effluent limits will be recalculated at the time of next renewal. Reasonable potential analysis will be conducted at the time of next renewal as well.

North Fork Spring River (C) (3188) is listed on the 2014, originally 2006, Missouri 303(d) List for Total Ammonia (W) and Dissolved Oxygen (W), and listed on the 2014, originally 2008, Missouri 303(d) List for *Escherichia coli* (W). North Fork Spring River (C) (3188) also has a TMDL for Sediment. The size of the impaired segment is 51.5 miles. In section **7. Waste Load Allocation (Point Source Loads)**, the TMDL states that based on the assessment of sources, point sources do not contribute to the water quality impairment relative to sediment impacts on stream biology. Thus, the wasteload allocations are set at the current permit limitations and conditions. The wasteload allocations listed in the TMDL do not preclude the establishment of future point sources of sediment loading in the watershed. Any future point sources should be evaluated in light of the TMDL established and the range of flows into which any additional load will impact. The TMDL identifies the pollutant source as agricultural nonpoint sources.

The City of Lamar WWTF receives landfill leachate. The city has stated the only landfill leachate they knowingly accept is from the Closed Lamar Sanitary Landfill which is permitted under MO-0110272 as well as the city's currently operational landfill. The expanded effluent testing data for this facility was reviewed for common pollutants found in landfill leachate. No additional monitoring for pollutants were determined to be necessary as a result of the landfill leachate according to the information available.

Part II – Operator Certification Requirements

 \boxtimes - This facility is required to have a certified operator.

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], the permittee shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions and regulations. Operators or supervisors of operations at regulated wastewater treatment facilities shall be certified in accordance with [10 CSR 20-9.020(2)] and any other applicable state law or regulation. As per [10 CSR 20-9.020(2)(A)], requirements for operation by certified personnel shall apply to all wastewater treatment systems, if applicable, as listed below:

Owned or operated by or for a

for operated by or for a	
A - Municipalities	- State agency
Federal agency	- Private Sewer Company regulated by the Public Service Commission
- County	- Public Water Supply Districts
- Public Sewer District	

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200) or fifty (50) or more service connections.

This facility currently requires an operator with a <u>C</u> Certification Level. Please see **Appendix - Classification Worksheet**. Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name:	Josh Mundy
Certification Number:	9197
Certification Level:	С

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

Part III- Operational Control Testing Requirements

Missouri Clean Water Commission regulation 10 CSR 20-9.010 requires certain publically owned treatment works and privately owned facilities regulated by the Public Service Commission to conduct internal operational control monitoring to further ensure proper operation of the facility and to be a safeguard or early warning for potential plant upsets that could affect effluent quality. This requirement is only applicable if the publically owned treatment works and privately owned facilities regulated by the Public Service Commission has a Population Equivalent greater than two hundred (200) or twenty five (25) or more service connections.

10 CSR 20-9.010(3) allows the Department to modify the monitoring frequency required in the rule based upon the Department' judgement of monitoring needs for process control at the specified facility

 \boxtimes - As per [10 CSR 20-9.010(4))], the facility is required to conduct operational monitoring.

Part IV – Receiving Stream Information

RECEIVING STREAM(S) TABLE: OUTFALL #001

WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	DISTANCE TO CLASSIFIED SEGMENT (MI)
8-20-13 MUDD V1.0	С	3960	AQL, IRR, LWW, SCR, WBCB, HHP	11070207-	0.0
North Fork Spring River	С	3188	AQL, IRR, LWW ,SCR, WBCB, HHP	0206	0.37

*As per 10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream's beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Uses which may be found in the receiving streams table, above:

10 CSR 20-7.031(1)(C)1.:

AQL = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: WWH = Warm Water Habitat; CDF = Cold-water fishery (Current narrative use is cold-water habitat.); CLF = Cool-water fishery (Current narrative use is cold-water habitat.); EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)
10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

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

WBC-A = Whole body contact recreation that supports swimming uses and has public access;

WBC-B = Whole body contact recreation that supports swimming;

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;

IRR = Irrigation for use on crops utilized for human or livestock consumption;

LWW = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection); **DWS** = Drinking Water Supply;

IND = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does 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 20-7.031(6): **GRW** = Groundwater

MIXING CONSIDERATIONS

Mixing Zone: Not Allowed [10 CSR 20-7.031(5)(A)4.B.(I)(a)]. Zone of Initial Dilution: Not Allowed [10 CSR 20-7.031(5)(A)4.B.(I)(b)].

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

Receiving Water Body's Water Quality:

Currently, no stream survey has been conducted by the Department. When a stream survey is conducted, more information may be available about the receiving stream.

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

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

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

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

ANTI-BACKSLIDING:

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

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

 \square - Information is available which was not available at the time of permit issuance (other than revised regulations, guidance, or test methods) and which would have justified the application of a less stringent effluent limitation at the time of permit issuance.

- Dissolved oxygen monitoring requirements have been removed due to the lack of reasonable potential to cause and instream excursion from water quality standards for dissolved oxygen. Effluent limits are still protective of water quality standards.
- Sampling frequencies for BOD, TSS, Ammonia, pH, and influent BOD and TSS have all been set to quarterly, this is reflective of the facilities consistent effluent quality. Quarterly sampling will provide a representative sample of the facilities effluent quality. Effluent limits are still protective of water quality.

 \square - The Department determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b).

• <u>General Criteria</u>. The previous permit contained a special condition which described a specific set of prohibitions related to general criteria found in 10 CSR 20-7.031(4). In order to comply with 40 CFR 122.44(d)(1), the permit writer has conducted reasonable potential determinations for each general criterion and established numeric effluent limitations where reasonable potential exists. While the removal of the previous permit special condition creates the appearance of backsliding, since this permit establishes numeric limitations where reasonable potential to cause or contribute to an excursion of the general criteria exists the permit maintains sufficient effluent limitations and monitoring requirements in order to protect water quality, this permit is equally protective as compared to the previous permit. Therefore, given this new information, and the fact that the previous permit special condition was not consistent with 40 CFR 122.44(d)(1), an error occurred in the establishment of the general criteria as a special condition of the previous permit. Please see Part VI – Effluent Limits Determination for more information regarding the reasonable potential determinations for each general criterion related to this facility.

ANTIDEGRADATION:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(3)], for domestic wastewater discharge with new, altered, or expanding discharges, the Department is to document by means of Antidegradation Review that 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

 \boxtimes - No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

For stormwater discharges, the stormwater BMP chosen for the facility, through the antidegradation analysis performed by the facility, must be implemented and maintained at the facility. Failure to implement and maintain the chosen BMP alternative is a permit violation; see SWPPP.

☑ - The facility must review and maintain stormwater BMPs as appropriate.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per [10 CSR 20-6.010(3)(B)], ...An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, 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 a 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. Additional information regarding biosolids and sludge is located at the following web address: http://extension.missouri.edu/main/DisplayCategory.aspx?C=74, items WQ422 through WQ449.

 \square - Permittee is not authorized to land apply biosolids. Sludge/biosolids are stored in the lagoon. The permittee must receive approval for any treatment, removal, and disposal of sludge or biosolids that is not identified in the facility description of the operating permit.

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.

 \boxtimes - The facility is not currently under Water Protection Program enforcement action.

ELECTRONIC DISCHARGE MONITORING REPORT (EDMR) SUBMISSION SYSTEM:

The U.S. Environmental Protection Agency (EPA) promulgated a final rule on October 22, 2015, to modernize Clean Water Act reporting for municipalities, industries, and other facilities by converting to an electronic data reporting system. This final rule requires regulated entities and state and federal regulators to use information technology to electronically report data required by the National Pollutant Discharge Elimination System (NPDES) permit program instead of filing paper reports. To comply with the federal rule, the Department is requiring all permittees to begin submitting discharge monitoring data and reports online. In an effort to aid facilities in the reporting of applicable information electronically, the Department has created several new forms including operational control monitoring forms and an I&I location and reduction form. These forms are for optional use and can be found on the Department's website at the following locations:

Operational Monitoring Lagoon: <u>http://dnr.mo.gov/forms/780-2801-f.pdf</u> Operational Monitoring Mechanical: <u>http://dnr.mo.gov/forms/780-2800-f.pdf</u> I&I Report: <u>http://dnr.mo.gov/forms/780-2690-f.pdf</u>

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 permittee must first submit an eDMR Waiver Request Form: <u>http://dnr.mo.gov/forms/780-2692-f.pdf</u>. A request must be made for each facility. If more than one facility is owned or operated by a single entity, then the entity must submit a separate request for each facility based on its specific circumstances. An approved waiver is non-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.

 \boxtimes - The permittee/facility is currently using the eDMR data reporting system.

PRETREATMENT PROGRAM:

The reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a Publicly Owned Treatment Works [40 CFR Part 403.3(q)].

Pretreatment programs are required at any POTW (or combination of POTW operated by the same authority) and/or municipality with a total design flow greater than 5.0 MGD and receiving industrial wastes that interfere with or pass through the treatment works or are otherwise subject to the pretreatment standards. Pretreatment programs can also be required at POTWs/municipals with a design flow less than 5.0 MGD if needed to prevent interference with operations or pass through.

Several special conditions pertaining to the permittee's pretreatment program may be included in the permit, and are as follows:

- Implementation and enforcement of the program,
- Annual pretreatment report submittal,
- Submittal of list of industrial users,
- Technical evaluation of need to establish local limitations, and
- Submittal of the results of the evaluation

- This permittee has an approved pretreatment program in accordance with the requirements of [40 CFR Part 403] and [10 CSR 20-6.100] and is expected to implement and enforce its approved program.

- The permittee, at this time, is not required to have a Pretreatment Program or does not have an approved pretreatment program.

 \boxtimes - At this time the permittee's pretreatment program is inactive.

Lamar WWTF Fact Sheet Page #8

REASONABLE POTENTIAL ANALYSIS (RPA):

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

In accordance with [40 CFR Part 122.44(d)(1)(iii)] if the permit writer determines that 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 that pollutant.

 \square - A RPA was not conducted for this facility. An RPA analysis was completed for the last permit cycle. Due to permit synchronization, the previous permit cycle was reduced to a time period of less than 5 years. Therefore, all RPA results from short term permit have been carried over to this permit.

REMOVAL EFFICIENCY:

Removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals.

 \boxtimes - Secondary Treatment is 85% removal [40 CFR Part 133.102(a)(3) & (b)(3)].

SANITARY SEWER OVERFLOWS (SSO) AND INFLOW AND INFILTRATION (I&I):

Sanitary Sewer Overflows (SSOs) are defined as untreated sewage releases and are considered bypassing under state regulation [10 CSR 20-2.010(11)] and should not be confused with the federal definition of bypass. SSOs result from a variety of causes including blockages, line breaks, and sewer defects that can either allow wastewater to backup within the collection system during dry weather conditions or allow excess stormwater and groundwater to enter and overload the collection system during wet weather conditions. SSOs can also result from lapses in sewer system operation and maintenance, inadequate sewer design and construction, power failures, and vandalism. SSOs include overflows out of manholes, cleanouts, broken pipes, and other into waters of the state and onto city streets, sidewalks, and other terrestrial locations.

Inflow and Infiltration (I&I) is defined as unwanted intrusion of stormwater or groundwater into a collection system. This can occur from points of direct connection such as sump pumps, roof drain downspouts, foundation drains, and storm drain cross-connections or through cracks, holes, joint failures, faulty line connections, damaged manholes, and other openings in the collection system itself. I&I results from a variety of causes including line breaks, improperly sealed connections, cracks caused by soil erosion/settling, penetration of vegetative roots, and other sewer defects. In addition, excess stormwater and groundwater entering the collection system from line breaks and sewer defects have the potential to negatively impact the treatment facility.

Missouri RSMo §644.026.1.(13) mandates that the Department issue permits for discharges of water contaminants into the waters of this state, and also for the operation of sewer systems. Such permit conditions shall ensure compliance with all requirements as established by sections 644.006 to 644.141. Standard Conditions Part I, referenced in the permit, contains provisions requiring proper operation and maintenance of all facilities and systems of treatment and control. Missouri RSMo §644.026.1.(15) instructs the Department to require proper maintenance and operation of treatment facilities and sewer systems and proper disposal of residual waste from all such facilities. To ensure that public health and the environment are protected, any noncompliance which may endanger public health or the environment must be reported to the Department within 24 hours of the time the permittee becomes aware of the noncompliance. Standard Conditions Part I, referenced in the permit, contains the reporting requirements for the permittee when bypasses and upsets occur. The permit requires that the permittee submit an annual report to the Department for the previous calendar year that contains a summary of efforts taken by the permittee to locate and eliminate sources of excess I & I, a summary of general maintenance and repairs to the collection system, and a summary of any planned maintenance and repairs to the collection system.

☑ - At this time, the Department recommends the US EPA's Guide for Evaluating Capacity, Management, Operation and Maintenance (CMOM) Programs at Sanitary Sewer Collection Systems (Document # EPA 305-B-05-002) or the Departments' CMOM Model located at <u>http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc</u>. For additional information regarding the Departments' CMOM Model, see the CMOM Plan Model Guidance document at <u>http://dnr.mo.gov/pubs/pub2574.htm</u>. The CMOM identifies some of the criteria used to evaluate a collection system's management, operation, and maintenance and was intended for use by the EPA, state, regulated community, and/or third party entities. The CMOM is applicable to small, medium, and large systems; both public and privately owned; and both regional and satellite collection systems. The CMOM does not substitute for the Clean Water Act, the Missouri Clean Water Law, and both federal and state regulations, as it is not a regulation.

SCHEDULE OF COMPLIANCE (SOC):

Per 644.051.4 RSMo, a permit may be issued with a Schedule of Compliance (SOC) to provide time for a facility to come into compliance with new state or federal effluent regulations, water quality standards, or other requirements. Such a schedule is not allowed if the facility is already in compliance with the new requirement, or if prohibited by other statute or regulation. A SOC

includes an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. *See also* Section 502(17) of the Clean Water Act, and 40 CFR §122.2. For new effluent limitations, the permit may include interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(11), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A 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. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit that was 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 granted for conducting these activities.

In order to provide guidance to Permit Writers in developing SOCs, and attain a greater level of consistency, on April 9, 2015 the Department issued an updated policy on development of SOCs. This policy provides guidance to Permit Writers on the standard time frames for schedules for common activities, and guidance on factors that may modify the length of the schedule such as a Cost Analysis for Compliance.

 \square - This permit does not contain a SOC.

SEWER EXTENSION AUTHORITY SUPERVISED PROGRAM:

In accordance with [10 CSR 20-6.010(6)(A)], the Department may grant approval of a permittee's Sewer Extension Authority Supervised Program. These approved permittees regulate and approve construction of sanitary sewers and pump stations, which are tributary to this wastewater treatment facility. The permittee shall act as the continuing authority for the operation, maintenance, and modernization of the constructed collection system. See http://dnr.mo.gov/env/wpp/permits/sewer-extension.htm.

☑ - The permittee does not have a Department approved Sewer Extension Authority Supervised Program.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities: (2) Authorized under section 402(p) of the CWA for the control of 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.

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

Additionally in accordance with the 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 stormwater discharges. The purpose of a SWPPP is to comply with all applicable stormwater regulations by creating an adaptive management plan to control and mitigate stream pollution from stormwater runoff. 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 permittee 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 re-evaluate 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 (<u>http://dnr.mo.gov/env/wpp/docs/AIP050212.pdf</u>).

Alternative Analysis (AA) evaluation of the BMPs is a structured evaluation of BMPs that are reasonable and cost effective. The AA evaluation should include practices that are 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), Section II.B.

If parameter-specific numeric exceedances continue to occur and the permittee 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 permittee 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; the application is found at: http://dnr.mo.gov/forms/index.html.

 \boxtimes - 10 CSR 20-6.200 and 40 CFR 122.26 includes treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that is located within the confines of the facility, with a design flow of 1.0 mgd or more, or are required to have an approved pretreatment program under 40 CFR part 403, as an industrial activity in which permit coverage is required.

In lieu of requiring sampling in the site-specific permit, the facility is required to develop and implement a Stormwater Pollution Prevention Plan (SWPPP). A facility can apply for conditional exclusion for "no exposure" of industrial activities and materials to stormwater by submitting a permit modification via Form B2 (<u>http://dnr.mo.gov/forms/780-1805-f.pdf</u>) appropriate application filing fees and a completed No Exposure Certification for Exclusion from NPDES Stormwater Permitting under Missouri Clean Water Law (<u>https://dnr.mo.gov/forms/780-2828-f.pdf</u>) to the Department's Water Protection Program, Operating Permits Section. Upon approval of the No Exposure Certification, the permit will be modified and the Special Condition to develop and implement a SWPPP will be removed. This information will be reevaluated at the time of renewal.

VARIANCE:

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

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

WASTELOAD ALLOCATIONS (WLA) FOR LIMITS:

As per [10 CSR 20-2.010(78)], the amount of pollutant each discharger is allowed by the Department to release into a given stream after the Department has determined total amount of pollutant that may be discharged into that stream without endangering its water quality.

 \boxtimes - Wasteload allocations were calculated where applicable using water quality criteria or water quality model results and the dilution equation below:

$$Ce = \frac{(Qe + Qs)C - (Qs \times Cs)}{(Qe)} \quad (EPA/505/2-90-001, Section 4.5.5)$$

```
 \begin{array}{ll} \mbox{Where} & C = \mbox{downstream concentration} & Ce = \mbox{effluent concentration} \\ & Cs = \mbox{upstream concentration} & Qe = \mbox{effluent flow} \\ & Qs = \mbox{upstream flow} & \end{array}
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Chronic wasteload allocations were determined using applicable chronic water quality criteria (CCC: criteria continuous concentration) and stream volume of flow at the edge of the mixing zone (MZ). Acute wasteload allocations were determined using applicable water quality criteria (CMC: criteria maximum concentration) and stream volume of flow at the edge of the zone of initial dilution (ZID).

Water quality based maximum daily and average monthly effluent limitations were calculated using methods and procedures outlined in USEPA's "Technical Support Document For Water Quality-based Toxics Control" (EPA/505/2-90-001).

Number of Samples "n":

Additionally, in accordance with the TSD for water quality-based permitting, effluent quality is determined by the underlying distribution of daily values, which is determined by the Long Term Average (LTA) associated with a particular Wasteload Allocation (WLA) and by the Coefficient of Variation (CV) of the effluent concentrations. Increasing or decreasing the monitoring frequency does not affect this underlying distribution or treatment performance, which should be, at a minimum, be targeted to comply with the values dictated by the WLA. Therefore, it is recommended that the actual planned frequency of monitoring normally be used to determine the value of "n" for calculating the AML. However, in situations where monitoring frequency is once per month or less, a higher value for "n" must be assumed for AML derivation purposes. Thus, the statistical procedure being employed using an assumed number of samples is "n = 4" at a minimum. For Total Ammonia as Nitrogen, "n = 30" is used.

WLA MODELING:

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

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

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(4)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

WHOLE EFFLUENT TOXICITY (WET) TEST:

 \boxtimes - The permittee is required to conduct WET test for this facility.

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

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

- Facility is a designated Major.
- Facility continuously or routinely exceeds its design flow.
- Facility that exceeds its design population equivalent (PE) for BOD₅ whether or not its design flow is being exceeded.
- Facility (whether primarily domestic or industrial) that alters its production process throughout the year.
- Facility handles large quantities of toxic substances, or substances that are toxic in large amounts.
- Facility has Water Quality-based Effluent Limitations for toxic substances (other than NH₃)
- Facility is a municipality with a Design Flow \geq 22,500 gpd.
 - Other please justify.

40 CFR 122.41(M) - BYPASSES:

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-7.015(9)(G) states a bypass means the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending, to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

 \boxtimes - This facility does not anticipate bypassing.

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

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

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

 \boxtimes - This facility discharges to a 303(d) listed stream.

• The North Fork Spring River is listed on the 2006 Missouri 303(d) List for Ammonia and on the 2008 Missouri 303 (d) list for E coli.

 \square - This facility is not considered to be a source of *E. coli* or considered to contribute to the impairment of North Fork Spring River

 \square - This facility is considered to be a source of or has the potential to contribute to the Ammonia impairment. Once a TMDL is developed, the permit will be modified to include WLAs from the TMDL.

 \boxtimes - This facility discharges to a stream with an EPA approved TMDL.

North Fork Spring River (C) (3188) has a TMDL for Sediment. The size of the impaired segment is 51.5 miles. In section 7. Waste Load Allocation (Point Source Loads), the TMDL states that based on the assessment of sources, point sources do not contribute to the water quality impairment relative to sediment impacts on stream biology. Thus, the wasteload allocations are set at the current permit limitations and conditions. The wasteload allocations listed in the TMDL do not preclude the establishment of future point sources of sediment loading in the watershed. Any future point sources should be evaluated in light of the TMDL established and the range of flows into which any additional load will impact. The TMDL identifies the pollutant source as agricultural nonpoint sources.

Part VI – Effluent Limits Determination

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

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

Missouri or Mississippi River [10 CSR 20-7.015(2)] Lakes or Reservoirs [10 CSR 20-7.015(3)]

Losing Streams [10 CSR 20-7.015(4)]

Metropolitan No-Discharge Streams [10 CSR 20-7.015(5)]

OUTFALL #001 - MAIN FACILITY OUTFALL

Special Streams [10 CSR 20-7.015(6)] Subsurface Waters [10 CSR 20-7.015(7)] All Other Waters [10 CSR 20-7.015(8)]

Effluent limitations derived and established in the below Effluent Limitations Table are based on current operations of the facility. Future permit action due to facility modification may contain new operating permit terms and conditions that supersede the terms and conditions, including effluent limitations, of this operating permit.

 $\overline{\mathbb{N}}$

EFFLUENT LIMITATIONS TABLE:

PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthly Average	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type ****
Flow	MGD	1	*		*	*/*	1/week- days	monthly	Т
BOD ₅	mg/L	1		45	30	45/30	1/quarter	quarterly	С
TSS	mg/L	1		45	30	45/30	1/quarter	quarterly	С
Escherichia coli**	#/100mL	1, 3		1030	206	1030/ 206	1/week	monthly	G
Ammonia as N (Apr 1 –Sep 30)	mg/L	2, 3	5.3		1.3	5.3/1.3	1/quarter	quarterly	G
Ammonia as N (Oct 1 – Mar 31)	mg/L	2, 3	11.1		2.7	11.1/2.7	1/quarter	quarterly	G
Oil & Grease	mg/L	1, 3	15		10	15/10	1/quarter	quarterly	G
Total Nitrogen	mg/L	1	*		*	*/*	1/quarter	quarterly	G
Total Phosphorus	mg/L	1	*		*	*/*	1/quarter	quarterly	G
Hardness, Total	mg/L	2,7	*		*	*/*	1/quarter	quarterly	G
Cyanide, Amendable to Chlorine	µg/L	2,7	8.22		2.58	8.22/ 2.58	1/quarter	quarterly	G
Chromium III, Total Recoverable	μg/L	2,7	*		*	*/*	1/quarter	quarterly	G
Chromium, VI, Dissolved	μg/L	2,7	*		*	*/*	1/quarter	quarterly	G
Copper, Total Recoverable	μg/L	2,7	25.4		8.0	25.4/8.0	1/quarter	quarterly	G
Iron, Total Recoverable	μg/L	2,7	*		*	*/*	1/quarter	quarterly	G
Zinc, Total Recoverable	μg/L	2,7	204.6		65.1	204.6/ 65.1	1/quarter	quarterly	G
Acute Whole Effluent Toxicity	TUa	1, 9	*			*	1/permit cycle	Permit cycle	С
PARAMETER	Unit	Basis for Limits	Minimum		Maximum	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type
pH	SU	1	6.5		9.0	6.5-9.0	1/quarter	quarterly	G
PARAMETER	Unit	Basis for Limits	Daily Minimum		Monthly Avg Min	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type
BOD ₅ Percent Removal	%	1			85	85	1/quarter	quarterly	М
TSS Percent Removal	%	1			85	85	1/quarter	quarterly	М

* - Monitoring requirement only.

** - #/100mL; the Monthly Average for E. coli is a geometric mean.

*** - Parameter not previously established in previous state operating permit.

Basis for Limitations Codes:

- State or Federal Regulation/Law 1.
- 2. Water Quality Standard (includes RPA)
- Water Quality Based Effluent Limits 3.
- Water Quality Model 6.

5.

8.

4. Antidegradation Review 7. Best Professional Judgment

Antidegradation Policy

TMDL or Permit in lieu of TMDL

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

Flow. In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure • compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.

Biochemical Oxygen Demand (BOD5). •

- Effluent limitations have been retained from previous state operating permit, please see the APPLICABLE DESIGNATION OF WATERS OF THE STATE sub-section of the Effluent Limits Determination.

**** - C = 24-hour composite

G = Grab

T = 24-hr. total

E = 24-hr. estimate

M = Measured/calculated

9. WET Test Policy

10. Multiple Discharger Variance

• <u>Total Suspended Solids (TSS)</u>.

☑ - Effluent limitations have been retained from previous state operating permit, please see the APPLICABLE DESIGNATION OF WATERS OF THE STATE sub-section of the Effluent Limits Determination.

- <u>Escherichia coli (E. coli)</u>. Monthly average of 206 per 100 mL as a geometric mean and Weekly Average of 1,030 per 100 mL as a geometric mean during the recreational season (April 1 October 31), to protect Whole Body Contact Recreation (B) designated use of the receiving stream, as per 10 CSR 20-7.031(5)(C). An effluent limit for both monthly average and weekly average is required by 40 CFR 122.45(d). The Geometric Mean is calculated by multiplying all of the data points and then taking the nth root of this product, where n = # of samples collected. For example: Five *E. coli* samples were collected with results of 1, 4, 6, 10, and 5 (#/100mL). Geometric Mean = 5th root of (1)(4)(6)(10)(5) = 5th root of 1,200 = 4.1 #/100mL.
- <u>Total Ammonia Nitrogen</u>. Effluent limitations have been retained from previous operating permit as the previous permit cycle was less than 5 years due to permit synchronization. Previously calculated ammonia limits of 5.3 mg/L Daily max and 1.3 mg/L as a monthly average for the summer season and 11.1 mg/L daily max and 2.7 mg/L monthly average for the winter season will be retained. Effluent limits and reasonable potential analysis will be conducted at the next renewal
- <u>Oil & Grease</u>. Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.
- <u>Total Phosphorus and Total Nitrogen</u>. Monitoring required for facilities greater than 100,000 gpd design flow per 10 CSR 20-7.015(9)(D)7. Total Nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and Nitrate + Nitrite and reporting the sum of the results (reported as N). Nitrate + Nitrite can be analyzed together or separately.
- <u>**pH**</u>. 6.5-9.0 SU. pH limitations of 6.0-9.0 SU [10 CSR 20-7.015] are not protective of the in-stream Water Quality Standard, which states that water contaminants shall not cause pH to be outside the range of 6.5-9.0 SU.
- <u>Cyanide, Amenable to Chlorination</u>. Effluent limitations have been retained from previous operating permit as the previous permit cycle was less than 5 years due to permit synchronization. Previously calculated ammonia limits of 8.22 mg/L Daily max and 2.58 mg/L as a monthly average will be retained. Effluent limits and reasonable potential analysis will be conducted at the next renewal. While the effluent limits have not changed the Minimum detectable level has changed from <20 µg/L to <10 µg/L due to there being an approved sampling procedure with a more sensitive minimum level.
- <u>Biochemical Oxygen Demand (BOD₅) Percent Removal</u>. In accordance with 40 CFR Part 133, removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 85% removal efficiency for BOD₅.
- <u>Total Suspended Solids (TSS) Percent Removal</u>. In accordance with 40 CFR Part 133, removal efficiency is a method by which the Federal Regulations define Secondary Treatment and Equivalent to Secondary Treatment, which applies to Biochemical Oxygen Demand 5-day (BOD₅) and Total Suspended Solids (TSS) for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 85% removal efficiency for TSS.

Metals

Effluent limitations have been retained from previous operating permit as the previous permit cycle was less than 5 years due to permit synchronization. The information below regarding metals has been retained from the previous permit. Effluent limits and reasonable potential analysis will be conducted at the next renewal.

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). General warm-water fishery criteria apply and a water hardness of 188 mg/L is used in the conversion below.

Due to the absence of contemporaneous effluent and instream data for total recoverable metals, dissolved metals, hardness, and total suspended solids with which to calculate metals translators, partitioning between the dissolved and absorbed phases was assumed to be minimal (Section 5.7.3, EPA/505/2-90-001). Freshwater criteria conversion factors for dissolved metals were used as the metals translator as recommended in guidance (Section 1.3, 1.5.3, and Table 1, EPA 823-B-96-007). If concurrent site-specific data for total recoverable metals, dissolved metals, hardness, and total suspended solids are provided to the Department, partitioning evaluations may be considered and site-specific translators developed.

Metal	CONVERSION FACTORS				
IVIETAL	ACUTE	CHRONIC			
Chromium III	0.316	0.860			
Chromium IV	NA	NA			
Copper	0.960	0.960			
Iron	NA	NA			
Zinc	0.980	0.980			

Conversion factors for Copper, Chromium III and Zinc are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 188 mg/L.

- <u>Chromium III, Total Recoverable</u>. As a result of a reasonable potential analysis, it has been determined by the permit writer that there is no reasonable potential for the facility to violate water quality standards for total recoverable chromium III. However, the facility does receive wastewater from a categorical industry. For this reason, monitoring has been included in the permit to verify the efficacy of the pretreatment program and the data collected will be used to determine if there is reasonable potential to violate water quality standards upon the next renewal.
- <u>Chromium VI, Dissolved</u>. As a result of a reasonable potential analysis, it has been determined by the permit writer that there is no reasonable potential for the facility to violate water quality standards for dissolved chromium VI. However, the facility does receive wastewater from a categorical industry. For this reason, monitoring has been included in the permit to verify the efficacy of the pretreatment program and the data collected will be used to determine if there is reasonable potential to violate water quality standards upon the next renewal.
- <u>**Copper, Total Recoverable**</u>. Protection of Aquatic Life Chronic Criteria = $15.4 \mu g/L$, Acute Criteria = $24.4 \mu g/L$.

Chronic =15.4/0.960 =16.00 µg/L Acute = 24.4/0.960 = 25.37 µg/L Chronic WLA: $C_e = ((1.19 + 0.0)16.00 - (0.0 * 0.0))/1.19$ $C_e = 16.00 µg/L$ Acute WLA: $C_e = ((1.19 + 0.0)25.37 - (0.0 * 0.0))/1.19$ $C_e = 25.37 µg/L$ LTA_c = 16.00 (0.171) = 2.73 µg/L LTA_a = 25.37 (0.103) = 2.61 µg/L Use most protective number of LTA_c or LTA_a. MDL = 2.61 (9.69) = 25.4 µg/L [CV = 2.45, 99th Percentile]

$MDL = 2.61 (9.69) = 25.4 \ \mu g/L$	$[CV = 2.45, 99^{th} Percentile]$
$AML = 2.61 (3.05) = 8.0 \ \mu g/L$	$[CV = 2.45, 95^{th} Percentile, n = 4]$

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- Iron, Total Recoverable. As a result of a reasonable potential analysis, it has been determined by the permit writer that there is no reasonable potential for the facility to violate water quality standards for total recoverable iron. However, the facility does receive wastewater from a categorical industry. For this reason, monitoring has been included in the permit to verify the efficacy of the pretreatment program and the data collected will be used to determine if there is reasonable potential to violate water quality standards upon the next renewal.
- **Zinc, Total Recoverable**. Protection of Aquatic Life Chronic Criteria = $200.46 \mu g/L$, Acute Criteria = $200.46 \mu g/L$.

Chronic =200.46/0.980 =204.56 µg/L Acute = $200.46/0.980 = 204.56 \,\mu g/L$

Chronic WLA: $C_e = ((1.19 + 0.0)204.56 - (0.0 * 0.0))/1.19$ $C_e = 204.56 \ \mu g/L$

Acute WLA: $C_e = ((1.19 + 0.0)204.56 - (0.0 * 0.0))/1.19$ $C_e = 204.56 \ \mu g/L$

$LTA_c = 204.56 (0.181) = 36.9 \ \mu g/L$	$[CV = 2.29, 99^{th} Percentile]$
$LTA_a = 204.56 (0.107) = 21.9 \ \mu g/L$	$[CV = 2.29, 99^{th} Percentile]$

Use most protective number of LTA_c or LTA_a.

$MDL = 21.9 (9.33) = 204.6 \ \mu g/L$	
$AML = 21.9 (2.97) = 65.1 \ \mu g/L$	

[CV = 2.29,		
[CV = 2.29,	95 th	Percentile, $n = 4$]

Whole Effluent Toxicity

Acute Whole Effluent Toxicity. Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards. Where no mixing is allowed, the acute criterion must be met at the end of the pipe. However, when using an LC50 as the test endpoint, the acute toxicity test has an upper sensitivity level of 100% effluent, or 1.0 TUa. If less than 50% of the test organisms die at 100% effluent, the true LC50 value for the effluent cannot be measured, effectively acting as a detection limit. Therefore, when the allowable effluent concentration is 100% a limit of 1.0 TUa will apply. If more than 50% of the organisms survive at 100% effluent, the permittee should report TUa <1.

Acute and/or Chronic Allowable Effluent Concentrations (AECs) for facilities that discharge to Waters of the State lacking designated uses, Class C, Class P (with default Mixing Considerations), or Lakes [10 CSR 20-7.031(5)(A)4.B.(IV)(b)] are 100%, 50%, 25%, 12.5%, & 6.25%.

Parameters Removed. Dissolved oxygen monitoring requirement has been removed. After evaluation of the facilities previous several years of discharge monitoring reports show the facility does not have reasonable potential to cause an instream excursion from water quality standards for dissolved oxygen.

Sampling Frequency Justification:

Sampling and Reporting Frequency was retained from previous permit. Sampling frequencies for BOD, TSS, Ammonia, pH, and influent BOD and TSS have all been set to quarterly, this is reflective of the facilities consistent effluent quality. Weekly sampling is required for E. coli, per 10 CSR 20-7.015(9)(D)6.A.

WET Test Sampling Frequency Justification. WET Testing schedules and intervals are established in accordance with the Department's Permit Manual; Section 5.2 Effluent Limits / WET Testing for Compliance Bio-monitoring. It is recommended that WET testing be conducted during the period of lowest stream flow. Acute Whole Effluent Toxicity

-No less than ONCE/PERMIT CYCLE:

- \boxtimes -Municipality with a design flow $\ge 22,500$ gpd, but less than 1.0 MGD.
- 🛛 Other, please justify. This facility currently has an active pretreatment program although the one known industrial user is no longer in operation. The city has decided to maintain the Pretreatment program and has not conducted an industrial waste survey to confirm no categorical industrial users remain. WET testing has been reduced from annual to once every five years

Sampling Type Justification:

As per 10 CSR 20-7.015, BOD₅, TSS, and WET test samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, Ammonia as N, *E. coli*, Oil & Grease, Total Nitrogen and Total Phosphorus. This is due to the holding time restriction for *E. coli*, the volatility of Ammonia and TRC, and the fact that pH and DO cannot be preserved and must be sampled in the field. As Ammonia, Oil & Grease, Cyanide amendable to Chlroine, Chromium III, Chromium VI, Copper, Iron, Zinc, Total Nitrogen, and Total Phosphorus samples must be immediately preserved, these samples are to be collected as a grab.

OUTFALL #001 – GENERAL CRITERIA CONSIDERATIONS:

In accordance with 40 CFR 122.44(d)(1), effluent limitations shall be placed into the permit for those pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. The rule further states that pollutants which have been determined to cause, have the reasonable potential to cause, or contribute to an excursion above a narrative criterion within an applicable State water quality standard, the permit shall contain a numeric effluent limitation to protect that narrative criterion. In order to comply with this regulation, the permit writer will complete reasonable potential determinations on whether the discharge will violate any of the general criteria listed in 10 CSR 20-7.031(4). These specific requirements are listed below followed by derivation and discussion (the lettering matches that of the rule itself, under 10 CSR 20-7.031(4)). It should also be noted that Section 644.076.1, RSMo as well as Section D – Administrative Requirements of Standard Conditions Part I of this permit states that it shall be unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri that is 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.

- (A) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses. The discharge from this facility is made up of treated domestic wastewater. Based upon review of the recent Report of Compliance Inspection for the inspection conducted on June 14, 2018 no evidence of an excursion of this criterion has been observed by the Department in the past and the facility has not disclosed any other information related to the characteristics of the discharge on their permit application which has the potential to cause or contribute to an excursion of this narrative criterion. Additionally, this facility utilizes secondary treatment technology and is currently in compliance with the secondary treatment technology established in 40 CFR 133 and there has been no indication to the Department that the stream has had issues maintaining beneficial uses as a result of this discharge. Based on the information reviewed during the drafting of this permit, these final effluent limitations appear to have protected against the excursion of this criterion in the past. Therefore, the discharge does not have the reasonable potential to cause or contribute to an excursion of this criterion.
- (B) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of <u>beneficial uses</u>. Please see (A) above as justification is the same.
- (C) <u>Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full</u> <u>maintenance of beneficial uses</u>. Please see (A) above as justification is the same.
- (D) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life. This permit contains final effluent limitations which are protective of both acute and chronic toxicity for various pollutants that are either expected to be discharged by domestic wastewater facilities or that were disclosed by this facility on the application for permit coverage. Based on the information reviewed during the drafting of this permit, it has been determined if the facility meets final effluent limitations established in this permit, there is no reasonable potential for the discharge to cause an excursion of this criterion.
- (E) <u>There shall be no significant human health hazard from incidental contact with the water</u>. Please see (D) above as justification is the same.
- (F) There shall be no acute toxicity to livestock or wildlife watering. Please see (D) above as justification is the same.
- (G) <u>Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community</u>. Please see (A) above as justification is the same.
- (H) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247. The discharge from this facility is made up of treated domestic wastewater. No evidence of an excursion of this criterion has been observed by the Department in the past and the facility has not disclosed any other information related to the characteristics of the discharge on their permit application which has the potential to cause or contribute to an excursion of this narrative criterion. Additionally, any solid wastes received or produced at this facility are wholly contained in appropriate storage facilities, are not discharged, and are disposed of offsite. This discharge is subject to Standard Conditions Part III, which contains requirements for the management and disposal of sludge to prevent its discharge. Therefore, this discharge does not have reasonable potential to cause or contribute to an excursion of this criterion.

Part VII – Cost Analysis for Compliance

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a "finding of affordability" on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

 \square - The Department is not required to determine Cost Analysis for Compliance because the permit contains no new conditions or requirements that convey a new cost to the facility.

Part VIII – Administrative Requirements

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

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. 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 4 years old, that 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. With permit synchronization, this permit will expire in the 1st Quarter of calendar year 2023.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing. The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit. For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

 \square - The Public Notice period for this operating permit was from September 21, 2018 to October 22, 2018. No comments were received during this time period.

DATE OF FACT SHEET: 07/30/2018

COMPLETED BY:

SHAWN MASSEY, ENVIRONMENTAL SPECIALIST MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT (573) 751-1399 Shawn.massey@dnr.mo.gov

Appendices

APPENDIX A - CLASSIFICATION WORKSHEET:

ITEM	POINTS POSSIBLE	POINTS Assigned
Maximum Population Equivalent (P.E.) served (Max 10 pts.)	1 pt./10,000 PE or major fraction thereof.	
Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)	1 pt. / MGD or major fraction thereof.	
EFFLUENT DISCHARGE RECEIVING	WATER SENSITIVITY:	
Missouri or Mississippi River	0	
All other stream discharges except to losing streams and stream reaches supporting whole body contact	1	
Discharge to lake or reservoir outside of designated whole body contact recreational area	2	
Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation	3	3
PRELIMINARY TREATMENT	Γ - Headworks	
Screening and/or comminution	3	
Grit removal	3	
Plant pumping of main flow (lift station at the headworks)	3	
PRIMARY TREATM	ENT	
Primary clarifiers	5	
Combined sedimentation/digestion	5	
Chemical addition (except chlorine, enzymes)	4	
REQUIRED LABORATORY CONTROL - performed	by plant personnel (highest level only))
Push – button or visual methods for simple test such as pH, Settleable solids	3	
Additional procedures such as DO, COD, BOD, titrations, solids, volatile content	5	
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	7	7
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph	10	
ALTERNATIVE FATE OF I	EFFLUENT	
Direct reuse or recycle of effluent	6	
Land Disposal – low rate	3	
High rate	5	
Overland flow	4	
Total from page ONE (1)		10

APPENDIX A- CLASSIFICATION WORKSHEET (CONTINUED):

Item	POINTS POSSIBLE	POINTS ASSIGNED	
VARIATION IN RAW WASTE (highest level only) (DMR e	exceedances and Design Flow exceeda	ances)	
Variation do not exceed those normally or typically expected	0		
Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow	2	2	
Recurring deviations or excessive variations of more than 200 % in strength and/or flow	4		
Raw wastes subject to toxic waste discharge	6		
SECONDARY TREAT	MENT		
Trickling filter and other fixed film media with secondary clarifiers	10		
Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)	15		
Stabilization ponds without aeration	5	5	
Aerated lagoon	8		
Advanced Waste Treatment Polishing Pond	2		
Chemical/physical – without secondary	15		
Chemical/physical – following secondary	10		
Biological or chemical/biological	12	12	
Carbon regeneration	4		
DISINFECTION			
Chlorination or comparable	5		
Dechlorination	2		
On-site generation of disinfectant (except UV light)	5		
UV light	4	4	
SOLIDS HANDLING - S	LUDGE		
Solids Handling Thickening	5		
Anaerobic digestion	10		
Aerobic digestion	6		
Evaporative sludge drying	2		
Mechanical dewatering	8		
Solids reduction (incineration, wet oxidation)	12		
Land application	6		
Total from page TWO (2)		23	
Total from page ONE (1)		10	
Grand Total		33	

 \square - A: 71 points and greater \square - B: 51 points – 70 points \square - C: 26 points – 50 points \square - D: 0 points – 25 points

APPENDIX B – NON-DOMESTIC DISCHARGES: UPDATED FEBRUARY 1, 2023

Morrison Printing See Poly-Green/* Redneck* "Man Re	5 92 69 46 17 364 80 but of town	1 3 10 5 6 25	15 45 150 75 90	-10.00 47.00 -81.00 -29.00	603 E 7th St 207 W 12th St 400 W 12th St	359903 553111 507507	Machine Shops (Mfrs) Automobile Parts & Supplies- Retail-New	NA	no called	No	2
Parts Clements Plumbing Heating & AC El Dorado Chemical Co Lamar Democrat Lamar Sheltered Workshop Manufacturing Redneck Midwest Radar & Equipment Morrison Printing Poly-Green/*Redneck* Re Preferred Signs only Rawlings Custom	69 46 17 364 80	10 5 6	150 75	-81.00				NA	called	No	2
& AC El Dorado Chemical Co Lamar Democrat Lamar Sheltered Workshop Manufacturing Redneck Midwest Radar & Equipment Morrison Printing Poly-Green/*Redneck* Preferred Signs Rawlings Custom	46 17 364 80	5	75		400 W 12th St	507507					-
Lamar Democrat Lamar Sheltered Workshop Manufacturing Redneck Midwest Radar & Equipment Out Morrison Printing Poly-Green/*Redneck* Manu Re Preferred Signs only Rawlings Custom Honey Science Poly-Cartered Signs Control Cont	17 364 80	6		-29.00		557507	Furnaces-Heating (Whls)	NA	called	No	2
Lamar Sheltered Workshop Manufacturing Redneck Midwest Radar & Equipment Morrison Printing Poly-Green/"Redneck" Re Preferred Signs Rawlings Custom	364 80		90		600 E 10th St	516916	Chemicals (Whls)	NA	called	No	2
Manufacturing Redneck Midwest Radar & Equipment Morrison Printing Poly-Green/"Redneck" Preferred Signs Rawlings Custom	80	25		-73.00	100 E 11th St	271101	Newspapers (Publishers/Mfrs)	NA	called	No	2
Midwest Radar & Equipment out Morrison Printing See Poly-Green/"Redneck" Re Preferred Signs only Rawlings Custom			375	-11.00	1401 Maple St	839998	Non-Profit Organizations	NA	called	No	2
Morrison Printing See Poly-Green/*Redneck* *Man Re Preferred Signs only Rawlings Custom	out of town	50	750	-670.00	1701 Maple St	399903	Manufacturers	NA	called	No	2&6
Poly-Green/*Redneck* *Man Re Preferred Signs only Rawlings Custom			0	NA	29 NE 1st Ln	381205	Radar-Manufacturers & Service	NA	NA	No	1
Poly-Green/*Redneck* *Mani- Re Preferred Signs only Rawlings Custom	22	2	30	-8.00	110 E 10th St	275202	Printers (Mfrs)	NA	called	No	2
Rawlings Custom	See above anufacturing Redneck"		0	NA	1705 Gulf St	635101	Bonds-Bail	NA	NA	No	3
-	only electric		0	NA	51 SW 30th Rd	399302	Signs (Mfrs)	NA	NA	No	1
	72	3	45	27.00	1609 Maple St	344106	Steel-Structural (Mfrs)	NA	called	No	2
Sawyer's Tire	58	5	75	-17.00	407 E 12 th St	359903	Tire shop/Auto shop	NA	called	No	2
Republic Services, Inc Prairieview Landfill	NA	NA	NA	NA	HWY DD & HWY 71		Landfilll Leachate	NA	Survey	Yes	5
Standley Plastics (<u>now</u> <u>Capital Polymers)</u>	2100	12	180	1920.00	707 E 20th St		Plastic	NA	Survey	No	2 & 6
Washburn Farm & Home out	out of town		0	NA	172 NE 1st Ln	359903	Machine Shops (Mfrs)	NA	NA	No	1
Auburn Pharmacy	39	7	105	0.00	605 W 12th St	591205	Pharmacies	NA	called	No	2
Envision Building Products 2	23500	10	150	23350.00	601 W 17th St	3089	Lumber/Wood Builiding products	NA	Survey	No	6
Envision Building Products	3000	42	630	2370.00	223 South KK Highway	3446	Metal Finishing	433.17	Survey	Yes	4
Gorilla	2500	20	300	2200.00	1900 Gulf Street		Concrete Roofing Tiles	NA	Survey	Yes	5
Capital Polymers 1	11200	20	300	10900.00	705 E. 20th Street		Plastic Mfg and Recycling	NA	Survey	No	6
SIU Reason Key:											
No.1. Outside City Limits	0 0		ndustriial user with tants to POTW								
No-2: Restrooms Only											
No-3: Out of Business or same as ano		ny already list	ed								
Yes-4: Categorical IU> Send Appli	plication										1
Yes-5 - Significant flow or reasonabl No-6: Process Knowledge/No Proces									++		



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.

- a. 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.
- 3. **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 4. 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.

6. 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 (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.

- The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - i. 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.



- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. 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.
- 3. 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 permit.
- 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.
- c. Monitoring results shall be reported to the Department no later than the 28^{th} 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.
- b. 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.
 - i. 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:
 - 1. 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
 - 3. 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:
 - i. 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
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- c. 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

- 1. **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



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 I 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 d. 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.)
- 3. **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.
- 4. **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.

- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violations of any terms or conditions of this permit or the law;ii. Having obtained this permit by misrepresentation or failure to
 - disclose fully any relevant facts; iii. A change in any circumstances or conditions that requires either a
 - temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. Any reason set forth in the Law 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.
- 9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



- 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;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. 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.

- 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.

- a. 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.



PART II - SPECIAL CONDITIONS – PUBLICLY OWNED TREATMENT WORKS SECTION A – INDUSTRIAL USERS

1. Definitions

Definitions as set forth in the Missouri Clean Water Laws and approved by the Missouri Clean Water Commission shall apply to terms used herein.

Significant Industrial User (SIU). Except as provided in the *General Pretreatment Regulation* 10 CSR 20-6.100, the term Significant Industrial User means:

- 1. All Industrial Users subject to Categorical Pretreatment Standards; and
- 2. Any other Industrial User that: discharges an average of 25,000 gallons per day or more of process wastewater to the Publicly-Owned Treatment Works (POTW) (excluding sanitary, noncontact cooling and boiler blowdown wastewater); contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW's or for violating any Pretreatment Standard or requirement.

Clean Water Act (CWA) is the the federal Clean Water Act of 1972, 33 U.S.C. § 1251 et seq. (2002).

2. Identification of Industrial Discharges

Pursuant to 40 CFR 122.44(j)(1), all POTWs shall identify, in terms of character and volume of pollutants, any Significant Industrial Users discharging to the POTW subject to Pretreatment Standards under section 307(b) of the CWA and 40 CFR 403.

3. Application Information

Applications for renewal or modification of this permit must contain the information about industrial discharges to the POTW pursuant to 40 CFR 122.21(j)(6)

4. Notice to the Department

Pursuant to 40 CFR 122.42(b), all POTWs must provide adequate notice of the following:

- Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging these pollutants; and
- 2. Any substantial change into the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
- 3. For purposes of this paragraph, adequate notice shall include information on:
 - i. the quality and quantity of effluent introduced into the POTW, and
 - ii. any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

For POTWs without an approved pretreatment program, the notice of industrial discharges which was not included in the permit application shall be made as soon as practicable. For POTWs with an approved pretreatment program, notice is to be included in the annual pretreatment report required in the special conditions of this permit. Notice may be sent to:

> Missouri Department of Natural Resources Water Protection Program Attn: Pretreatment Coordinator P.O. Box 176 Jefferson City, MO 65102

PART III – SLUDGE AND BIOSOLIDS FROM DOMESTIC AND INDUSTRIAL WASTEWATER TREATMENT FACILITIES

SECTION A – GENERAL REQUIREMENTS

- This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation for domestic wastewater and industrial process wastewater. This permit also incorporates applicable federal sludge disposal requirements under 40 CFR 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR 503 for domestic wastewater. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address the federal requirements.
- These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW), privately owned facilities and sludge or biosolids generated at industrial facilities.
- 3. Sludge and Biosolids Use and Disposal Practices:
 - a. The permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
 - b. The permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. The permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
- 4. Sludge Received from other Facilities:
 - a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
 - b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge
- 5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
- 6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.
- This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Actor under Chapter 644 RSMo.
- 8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.
- 9. Alternate Limits in the Site Specific Permit.
 - Where deemed appropriate, the Department may require an individual site specific permit in order to authorize alternate limitations:
 - a. A site specific permit must be obtained for each operating location, including application sites.
 - b. To request a site specific permit, an individual permit application, permit fee, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
- 10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the Department, as follows:
 - a. The Department will prepare a permit modification and follow permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owner of the property located adjacent to each land application site, where appropriate.
 - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.

SECTION B – DEFINITIONS

- 1. Best Management Practices include agronomic loading rates, soil conservation practices and other site restrictions.
- 2. Biosolids means organic fertilizer or soil amendment produced by the treatment of domestic wastewater sludge.
- 3. Biosolids land application facility is a facility where biosolids are spread onto the land at agronomic rates for production of food or fiber. The facility includes any structures necessary to store the biosolids until soil, weather, and crop conditions are favorable for land application.
- 4. Class A biosolids means a material that has met the Class A pathogen reduction requirements or equivalent treatment by a Process to Further Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
- 5. Class B biosolids means a material that has met the Class B pathogen reduction requirements or equivalent treatment by a Process to Significantly Reduce Pathogens (PFRP) in accordance with 40 CFR 503.
- 6. Domestic wastewater means wastewater originating from the sanitary conveniences of residences, commercial buildings, factories and institutions; or co-mingled sanitary and industrial wastewater processed by a (POTW) or a privately owned facility.
- 7. Industrial wastewater means any wastewater, also known as process water, not defined as domestic wastewater. Per 40 CFR Part 122, process water means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product.
- 8. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including septic tanks, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological discs, and other similar facilities. It does not include wastewater treatment lagoons and constructed wetlands for wastewater treatment.
- 9. Operating location as defined in 10 CSR 20-2.010 is all contiguous lands owned, operated or controlled by one (1) person or by two (2) or more persons jointly or as tenants in common.
- 10. Plant Available Nitrogen (PAN) is the nitrogen that will be available to plants during the growing seasons after biosolids application.
- 11. Public contact site is land with a high potential for contact by the public. This includes, but is not limited to, public parks, ball fields, cemeteries, plant nurseries, turf farms, and golf courses.
- 12. Sludge is the solid, semisolid, or liquid residue removed during the treatment of wastewater. Sludge includes septage removed from septic tanks or equivalent facilities. Sludge does not include carbon coal byproducts (CCBs)
- 13. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen basin that receives sludge that has been removed from a wastewater treatment facility. It does not include a wastewater treatment lagoon or sludge treatment units that are not a part of a mechanical wastewater treatment facility.
- 14. Septage is the material pumped from residential septic tanks and similar treatment works (with a design population of less than 150 people). The standard for biosolids from septage is different from other sludges.

SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES

- 1. Sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and sludge conditions of this permit.
- 2. The permittee shall operate the facility so that there is no sludge discharged to waters of the state.
- Mechanical treatment plants shall have separate sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove sludge from these storage compartments on the required design schedule is a violation of this permit.

SECTION D - SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR CONTRACT HAULER

- 1. This section applies to permittees that haul sludge to another treatment facility for disposal or use contract haulers to remove and dispose of sludge.
- 2. Permittees that use contract haulers are responsible for compliance with all the terms of this permit including final disposal, unless the hauler has a separate permit for sludge or biosolids disposal issued by the Department; or the hauler transports the sludge to another permitted treatment facility.
- 3. Haulers who land apply septage must obtain a state permit.
- 4. Testing of sludge, other than total solids content, is not required if sludge is hauled to a municipal wastewater treatment facility or other permitted wastewater treatment facility, unless it is required by the accepting facility.

SECTION E - INCINERATION OF SLUDGE

- 1. Sludge incineration facilities shall comply with the requirements of 40 CFR 503 Subpart E; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
- 2. Permittee may be authorized under the facility description of this permit to store incineration ash in lagoons or ash ponds. This permit does not authorize the disposal of incineration ash. Incineration ash shall be disposed in accordance with 10 CSR 80; or if the ash is determined to be hazardous with 10 CSR 25.
- 3. In addition to normal sludge monitoring, incineration facilities shall report the following as part of the annual report, quantity of sludge incinerated, quantity of ash generated, quantity of ash stored, and ash used or disposal method, quantity, and location. Permittee shall also provide the name of the disposal facility and the applicable permit number.

SECTION F - SURFACE DISPOSAL SITES AND SLUDGE LAGOONS

- 1. Surface disposal sites of domestic facilities shall comply with the requirements in 40 CFR 503 Subpart C; air pollution control regulations under 10 CSR 10; and solid waste management regulations under 10 CSR 80.
- 2. Sludge storage lagoons are temporary facilities and are not required to obtain a permit as a solid waste management facility under 10 CSR 80. In order to maintain sludge storage lagoons as storage facilities, accumulated sludge must be removed routinely, but not less than once every two years unless an alternate schedule is approved in the permit. The amount of sludge removed will be dependent on sludge generation and accumulation in the facility. Enough sludge must be removed to maintain adequate storage capacity in the facility.
 - a. In order to avoid damage to the lagoon seal during cleaning, the permittee may leave a layer of sludge on the bottom of the lagoon, upon prior approval of the Department; or
 - b. Permittee shall close the lagoon in accordance with Section H.

SECTION G - LAND APPLICATION

- 1. The permittee shall not land apply sludge or biosolids unless land application is authorized in the facility description or the special conditions of the issued NPDES permit.
- 2. Land application sites within a 20 miles radius of the wastewater treatment facility are authorized under this permit when biosolids are applied for beneficial use in accordance with these standard conditions unless otherwise specified in a site specific permit. If the permittee's land application site is greater than a 20 mile radius of the wastewater treatment facility, approval must be granted from the Department.
- 3. Land application shall not adversely affect a threatened or endangered species or its designated critical habitat.
- 4. Biosolids shall not be applied unless authorized in this permit or exempted under 10 CSR 20, Chapter 6.
 - a. This permit does not authorize the land application of domestic sludge except for when sludge meets the definition of biosolids.
 - b. This permit authorizes "Class A or B" biosolids derived from domestic wastewater and/or process water sludge to be land applied onto grass land, crop land, timber or other similar agricultural or silviculture lands at rates suitable for beneficial use as organic fertilizer and soil conditioner.
- 5. Public Contact Sites:

Permittees who wish to apply Class A biosolids to public contact sites must obtain approval from the Department after two years of proper operation with acceptable testing documentation that shows the biosolids meet Class A criteria. A shorter length of testing will be allowed with prior approval from the Department. Authorization for land applications must be provided in the special conditions section of this permit or in a separate site specific permit.

- a. After Class B biosolids have been land applied, public access must be restricted for 12 months.
- b. Class B biosolids are only land applied to root crops, home gardens or vegetable crops whose edible parts will not be for human consumption.
- 6. Agricultural and Silvicultural Sites:

Septage - Based on Water Quality guide 422 (WQ422) published by the University of Missouri

- a. Haulers that land apply septage must obtain a state permit
- b. Do not apply more than 30,000 gallons of septage per acre per year.
- c. Septage tanks are designed to retain sludge for one to three years which will allow for a larger reduction in pathogens and vectors, as compared to other mechanical type treatment facilities.
- d. To meet Class B sludge requirements, maintain septage at 12 pH for at least thirty (30) minutes before land application. 50 pounds of hydrated lime shall be added to each 1,000 gallons of septage in order to meet pathogen and vector stabilization for septage biosolids applied to crops, pastures or timberland.
- e. Lime is to be added to the pump truck and not directly to the septic tanks, as lime would harm the beneficial bacteria of the septic tank.

Biosolids - Based on Water Quality guide 423, 424, and 425 (WQ423, WQ424, WQ425) published by the University of Missouri;

- a. Biosolids shall be monitored to determine the quality for regulated pollutants
- b. The number of samples taken is directly related to the amount of sludge produced by the facility (See Section I of these Standard Conditions). Report as dry weight unless otherwise specified in the site specific permit. Samples should be taken only during land application periods. When necessary, it is permissible to mix biosolids with lower concentrations of biosolids as well as other suitable Department approved material to reach the maximum concentration of pollutants allowed.
- c. Table 1 gives the maximum concentration allowable to protect water quality standards

TABLE 1					
Biosolids ceiling concentration ¹					
Pollutant	Milligrams per kilogram dry weight				
Arsenic	75				
Cadmium	85				
Copper	4,300				
Lead	840				
Mercury	57				
Molybdenum	75				
Nickel	420				
Selenium	100				
Zinc	7,500				

¹ Land application is not allowed if the sludge concentration exceeds the maximum limits for any of these pollutants

d. The low metal concentration biosolids has reduced requirements because of its higher quality and can safely be applied for 100 years or longer at typical agronomic loading rates. (See Table 2)

TABLE 2						
Biosolids Low Metal Concentration ¹						
Pollutant	Milligrams per kilogram dry weight					
Arsenic	41					
Cadmium	39					
Copper	1,500					
Lead	300					
Mercury	17					
Nickel	420					
Selenium	36					
Zinc	2,800					

You may apply low metal biosolids without tracking cumulative metal limits, provided the cumulative application of biosolids does not exceed 500 dry tons per acre.

e. Each pollutant in Table 3 has an annual and a total cumulative loading limit, based on the allowable pounds per acre for various soil categories.

TABLE 3							
D 11 4 4	CEC 15+		CEC 5 to 15		CEC 0 to 5		
Pollutant	Annual	Total ¹	Annual	Total ¹	Annual	Total ¹	
Arsenic	1.8	36.0	1.8	36.0	1.8	36.0	
Cadmium	1.7	35.0	0.9	9.0	0.4	4.5	
Copper	66.0	1,335.0	25.0	250.0	12.0	125.0	
Lead	13.0	267.0	13.0	267.0	13.0	133.0	
Mercury	0.7	15.0	0.7	15.0	0.7	15.0	
Nickel	19.0	347.0	19.0	250.0	12.0	125.0	
Selenium	4.5	89.0	4.5	44.0	1.6	16.0	
Zinc	124.0	2,492.0	50.0	500.0	25.0	250.0	

¹ Total cumulative loading limits for soils with equal or greater than 6.0 pH (salt based test) or 6.5 pH (water based test)

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TABLE 4 - Guidelines	for land application of other trace substances ¹	

Cumulative Loading					
Pollutant	Pounds per acre				
Aluminum	$4,000^2$				
Beryllium	100				
Cobalt	50				
Fluoride	800				
Manganese	500				
Silver	200				
Tin	1,000				
Dioxin	$(10 \text{ ppt in soil})^3$				
Other	4				

¹ Design of land treatment systems for Industrial Waste, 1979. Michael Ray Overcash, North Carolina State University and Land Treatment of Municipal Wastewater, EPA 1981.)

- ² This applies for a soil with a pH between 6.0 and 7.0 (salt based test) or a pH between 6.5 to 7.5 (water based test). Case-by-case review is required for higher pH soils.
- ³ Total Dioxin Toxicity Equivalents (TEQ) in soils, based on a risk assessment under 40 CFR 744, May 1998.
- ⁴ Case by case review. Concentrations in sludge should not exceed the 95th percentile of the National Sewage Sludge Survey, EPA, January 2009.

Best Management Practices - Based on Water Quality guide 426 (WQ426) published by the University of Missouri

- a. Use best management practices when applying biosolids.
- b. Biosolids cannot discharge from the land application site
- c. Biosolid application is subject to the Missouri Department of Agriculture State Milk Board concerning grazing restrictions of lactating dairy cattle.
- d. Biosolid application must be in accordance with section 4 of the Endangered Species Act.
- e. Do not apply more than the agronomic rate of nitrogen needed.
- f. The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil, and crop removal when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) When biosolids are land applied at an application rate greater than two dry tons per acre per year.
 - i. PAN can be determined as follows and is in accordance with WQ426
 - (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹). ¹Volatilization factor is 0.7 for surface application and 1 for subsurface application.
- g. Buffer zones are as follows:
 - i. 300 feet of a water supply well, sinkhole, lake, pond, water supply reservoir or water supply intake in a stream;
 - 300 feet of a losing stream, no discharge stream, stream stretches designated for whole body contact recreation, wild and scenic rivers, Ozark National Scenic Riverways or outstanding state resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
 - iii. 150 feet if dwellings;
 - iv. 100 feet of wetlands or permanent flowing streams;
 - v. 50 feet of a property line or other waters of the state, including intermittent flowing streams.
- h. Slope limitation for application sites are as follows;
 - i. A slope 0 to 6 percent has no rate limitation
 - ii. Applied to a slope 7 to 12 percent, the applicator may apply biosolids when soil conservation practices are used to meet the minimum erosion levels
 - Slopes > 12 percent, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
- i. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- j. Do not apply biosolids to sites with soil that is snow covered, frozen or saturated with liquid without prior approval by the Department.
- k. Biosolids / sludge applicators must keep detailed records up to five years.

SECTION H - CLOSURE REQUIREMENTS

- 1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
- 2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 6.010 and 10 CSR 20 6.015.
- 3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
 - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
 - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
 - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
 - i. PAN can be determined as follows:
 - (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹). ¹Volatilization factor is 0.7 for surface application and 1 for subsurface application.
- 4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered "septage" under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
 - a. Testing for metals or fecal coliform is not required
 - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
 - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.
- 5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain ≥70% vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
- 6. Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200
- When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
 - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain ≥70% vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
 - Per 10 CSR 20-6.015(4)(B)6, Hazardous Waste shall not be land applied or disposed during industrial and mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations under 10 CSR 25.
 - c. After demolition of the mechanical plant / industrial plant, the site must only contain clean fill defined in RSMo 260.200 (5) as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill or other beneficial use. Other solid wastes must be removed.
- 8. If sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or H, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

SECTION I – MONITORING FREQUENCY

1. At a minimum, sludge or biosolids shall be tested for volume and percent total solids on a frequency that will accurately represent sludge quantities produced and disposed. Please see the table below.

I ABLE 5						
Design Sludge	Monitoring Frequency (See Notes 1, 2, and 3)					
Production (dry tons per year)	Metals, Pathogens and Vectors	Nitrogen TKN ¹	Nitrogen PAN ²	Priority Pollutants and TCLP ³		
0 to 100	1 per year	1 per year	1 per month	1 per year		
101 to 200	biannual	biannual	1 per month	1 per year		
201 to 1,000	quarterly	quarterly	1 per month	1 per year		
1,001 to 10,000	1 per month	1 per month	1 per week	4		
10,001 +	1 per week	1 per week	1 per day	4		
Test total Vialda	hl nitrogan if higgalide a	autientien is 2 destaure au				

TABLE 5

¹ Test total Kjeldahl nitrogen, if biosolids application is 2 dry tons per acre per year or less.

² Calculate plant available nitrogen (PAN) when either of the following occurs: 1) when biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.

³ Priority pollutants (40 CFR 122.21, Appendix D, Tables II and III) and toxicity characteristic leaching procedure (40 CFR 261.24) is required only for permit holders that must have a pre-treatment program.

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids. This data shall be used to calculate the dry tons of sludge applied per acre. Note 2: Total Phosphorus: Total phosphorus and total potassium shall be tested at the same monitoring frequency as metals. Note 3: Table 5 is not applicable for incineration and permit holders that landfill their sludge.

- 2. If you own a wastewater treatment lagoon or sludge lagoon that is cleaned out once a year or less, you may choose to sample only when the sludge is removed or the lagoon is closed. Test one composite sample for each 100 dry tons of sludge or biosolids removed from the lagoon during the year within the lagoon at closing. Composite sample must represent various areas at one-foot depth.
- 3. Additional testing may be required in the special conditions or other sections of the permit. Permittees receiving industrial wastewater may be required to conduct additional testing upon request from the Department.
- 4. At this time, the Department recommends monitoring requirements shall be performed in accordance with, "POTW Sludge Sampling and Analysis Guidance Document," United States Environmental Protection Agency, August 1989, and the subsequent revisions.

SECTION J - RECORD KEEPING AND REPORTING REQUIREMENTS

- 1. The permittee shall maintain records on file at the facility for at least five years for the items listed in these standard conditions and any additional items in the Special Conditions section of this permit. This shall include dates when the sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
- 2. Reporting period
 - a. By January 28th of each year, an annual report shall be submitted for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and sludge or biosolids disposal facilities.
 - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when sludge or biosolids are removed from the lagoon during the report period or when the lagoon is closed.
- 3. Report Forms. The annual report shall be submitted on report forms provided by the Department or equivalent forms approved by the Department.
- 4. Reports shall be submitted as follows:

Major facilities (those serving 10,000 persons or 1 million gallons per day) shall report to both the Department and EPA. Other facilities need to report only to the Department. Reports shall be submitted to the addresses listed as follows:

DNR regional office listed in your permit (see cover letter of permit) ATTN: Sludge Coordinator EPA Region VII Water Compliance Branch (WACM)

Water Compliance Branch (WACM Sludge Coordinator 11201 Renner Blvd. Lenexa, KS 66219

⁴ One sample for each 1,000 dry tons of sludge.

- 5. Annual report contents. The annual report shall include the following:
 - a. Sludge and biosolids testing performed. Include a copy or summary of all test results, even if not required by the permit.
 - b. Sludge or biosolids quantity shall be reported as dry tons for quantity generated by the wastewater treatment facility, the quantity stored on site at the end of the year, and the quantity used or disposed.
 - c. Gallons and % solids data used to calculate the dry ton amounts.
 - d. Description of any unusual operating conditions.
 - e. Final disposal method, dates, and location, and person responsible for hauling and disposal.
 - i. This must include the name, address for the hauler and sludge facility. If hauled to a municipal wastewater treatment facility, sanitary landfill, or other approved treatment facility, give the name of that facility.
 - ii. Include a description of the type of hauling equipment used and the capacity in tons, gallons, or cubic feet.
 - f. Contract Hauler Activities:

If contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge or biosolids use permit.

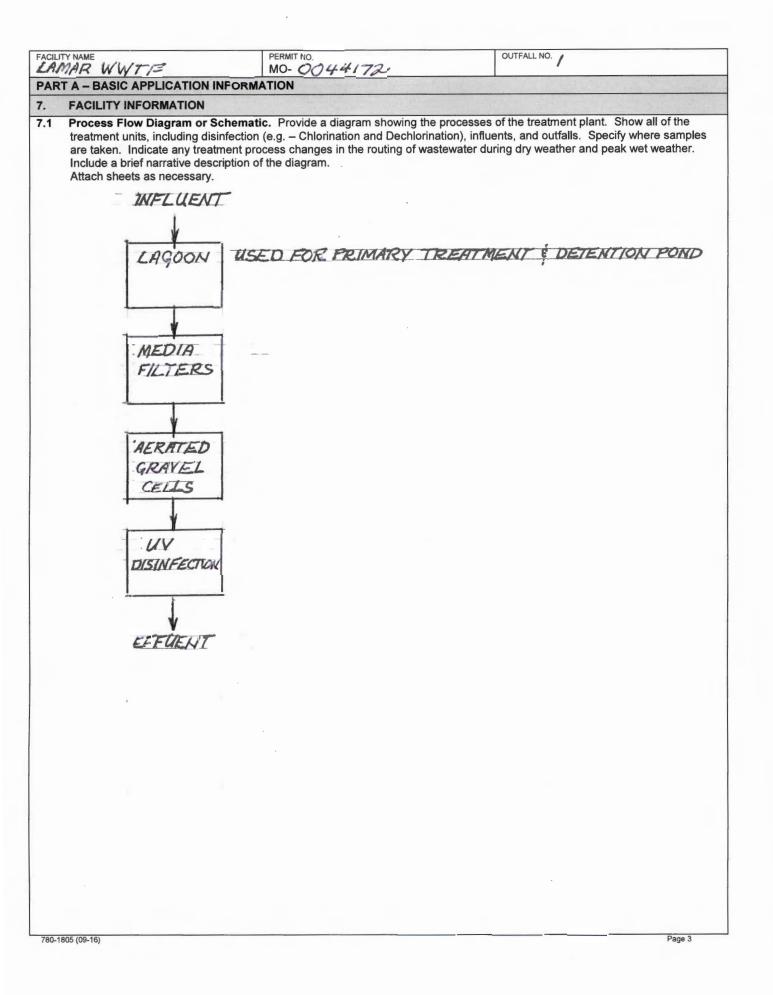
- g. Land Application Sites:
 - i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as a legal description for nearest ¹/₄, ¹/₄, Section, Township, Range, and county, or UTM coordinates. The facility shall report PAN when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.
 - ii. If the "Low Metals" criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
 - iii. Report the method used for compliance with pathogen and vector attraction requirements.
 - iv. Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.

7 Ollola	RECEIVED
28100	SEP 25 2017
MISSOURI DEPARTMENT OF NATURAL RESOURCES	
FORM B2 – APPLICATION FOR OPERATING PERMIT FOR RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DE 100,000 GALLONS PER DAY	SIGN FLOW MORE THAN
PERMIT NO. MO-0044172	FACILITY
PERMIT NO. MO - 0044172	COUNTY BARTON
APPLICATION OVERVIEW	2.7.0.07
Form B2 has been developed in a modular format and consists of Parts A, B an Information (Parts D, E, F and G) packet. All applicants must complete Parts A, complete parts of the Supplemental Application Information packet. The followin you must complete. Submittal of an incomplete application may result in the ap	, B and C. Some applicants must also ng items explain which parts of Form B2
BASIC APPLICATION INFORMATION	
A. Basic application information for all applicants. All applicants must com	
B. Additional application information for all applicants. All applicants must	complete Part B.
C. Certification. All applicants must complete Part C. SUPPLEMENTAL APPLICATION INFORMATION	
D. Expanded Effluent Testing Data. A treatment works that discharges effluent	nt to surface water of the Linited States
and meets one or more of the following criteria must complete Part D - Exp	
1. Has a design flow rate greater than or equal to 1 million gallons per da	ay.
2. Is required to have or currently has a pretreatment program.	
3. Is otherwise required by the permitting authority to provide the information	ation.
E. Toxicity Testing Data. A treatment works that meets one or more of the fol Toxicity Testing Data:	llowing criteria must complete Part E -
1. Has a design flow rate greater than or equal to 1 million gallons per da	ay.
Is required to have or currently has a pretreatment program.	
3. Is otherwise required by the permitting authority to provide the information	ation.
F. Industrial User Discharges and Resource Conservation and Recovery Act A Response, Compensation and Liability Act Wastes. A treatment works tha significant industrial users, also known as SIUs, or receives a Resource Co CERCLA wastes must complete Part F - Industrial User Discharges and Re /CERCLA Wastes.	at accepts process wastewater from any onservation and Recovery Act or
SIUs are defined as:	
 All Categorical Industrial Users, or CIUs, subject to Categorical Pretree Federal Regulations 403.6 and 40 Code of Federal Regulations 403.6 	
2. Any other industrial user that meets one or more of the following:	
 Discharges an average of 25,000 gallons per day or more of works (with certain exclusions). 	f process wastewater to the treatment
ii. Contributes a process waste stream that makes up five perc hydraulic or organic capacity of the treatment plant.	ent or more of the average dry weather
iii. Is designated as an SIU by the control authority.	
iv. Is otherwise required by the permitting authority to provide the	he information.
G. Combined Sewer Systems. A treatment works that has a combined sewer Combined Sewer Systems.	system must complete <i>Part G -</i>
ALL APPLICANTS MUST COMPLETE PARTS A, B and C	Dave 4

RECEIVED

SEP 25 2017

	MISSOURI DEPARTMENT OF NATURAL RESO WATER PROTECTION PROGRAM FORM B2 – APPLICATION FOR AN O	PERATIN		FOR	CHECK	NUMBER	
2	FACILITIES THAT RECEIVE PRIMARI HAVE A DESIGN FLOW MORE THAN				DATE R	S-1	
PAR	T A - BASIC APPLICATION INFORMATION						
1.	THIS APPLICATION IS FOR:						
	 An operating permit for a new or unpermitted facility (Include completed Antidegradation Review or required An operating permit renewal: Permit #MO-<u>00 #44</u> An operating permit modification: Permit #MO 	est to condi	Construction uct an Antidegra Expiration D Reason:		w, see ins	tructior OI8	ns)
1.1	Is the appropriate fee included with the application (s	ee instructio	ons for appropri	ate fee)?	C] YES	□ NO
2.	FACILITY			1.打酒,			ALL DALL
NAME	LAMAR WASTEWATER TREATME	NT FA	an IITTY		A		R WITH AREA CODE
ADDRE	SS (PHYSICAL)	L CITY	0.417		STATE	82-	SSS4 ZIP CODE
	EST TERMINUS OF 19TH ST.	LAN	AR		MO		64750
2.1	LEGAL DESCRIPTION (Facility Site): 14, SW	VA. NEVA	Sec. 3/	SAL RZIN		COUNT	RTON
2.2	UTM Coordinates Easting (X):386250 Northi For Universal Transverse Mercator (UTM), Zone 1	ing (Y): 444	49069				
2.3	Name of receiving stream: TRIBUTTARY TO						
2.4	Number of Outfalls: / wastewater outfalls,		mwater outfalls		am monito	oring sit	tes
3.	OWNER						
AME	Provide Lange		AL ADDRESS				R WITH AREA CODE
DDRE	CITY OF LAMAR	I CITY	ncalton@tic	rdon.com	417-68 STATE	12-5	ZIP CODE
DDRE	1104 BROADWAY	LAM	AR		STATE		64759
.1	Request review of draft permit prior to Public Notice	?	☐ YES	X NO			
.2	Are you a Publically Owned Treatment Works (POT If yes, is the Financial Questionnaire attached?	W)?					
.3	Are you a Privately Owned Treatment Facility?		TES YES	NO NO			
3.4	Are you a Privately Owned Treatment Facility regula	ated by the	Public Service	Commission (PSC)?		S 🗌 NO
AME	CONTINUING AUTHORITY: Permanent organization maintenance and modernization of the facility.		IL ADDRESS	continuing		7=	e operation,
	CITY OF LAMAR		ncalton@t	adan com			- 5354
DDRE	SS	CITY		un on , cum	STATE		ZIP CODE
	1104 BROADWAY		MAR		MO	_	64759
	Continuing Authority is different than the Owner, includ iption of the responsibilities of both parties within the ag		the contract ag	reement betw	een the tw	/o parti	es and a
i.	OPERATOR						MAN STREET
	JOSH MUNDY	TITLE CH		ERATOR	CERTIFICAT	е NUMBE 97	R (IF APPLICABLE)
	TERPLANT OCITY of lamar, org		692 555				
5.	FACILITY CONTACT	71'					
	LYNN CALTON			ADMI	NISTI	RATO	IR
	lynn calton Officedon, com	7		2-555	4		
ADDRE	ADDRESS Iynn calton @tiadon.com SS 1104 BRUNDWAR	LAM			STATE MO		ZIP CODE 64759
	305 (09-16)					_	Page 2



FACILIT	MAR WWTF	PERMIT NO. MO- 00444172-	/	OUTFALL NO.	
PAR	TA - BASIC APPLICATION INFOR	MATION		1	
7.	FACILITY INFORMATION (contin	ued)			
7.2	 Topographic Map. Attach to this property boundaries. This map m a. The area surrounding the treat b. The location of the downstreat c. The major pipes or other struct through which treated wastew applicable. d. The actual point of discharge. e. Wells, springs, other surface with the treatment works, and 2) list. Any areas where the sewage g. If the treatment works received (RCRA) by truck, rail, or specific tis treated, stored, or disposed 	ust show the outline of the fittment plant, including all un m landowner(s). (See Item ctures through which wastev rater is discharged from the water bodies and drinking w sted in public record or othe sludge produced by the treas s waste that is classified as ial pipe, show on the map w	acility and the followin it processes. 10.) CABIN PRO water enters the treatment treatment plant. Inclu- vater wells that are: 1) provise known to the ap- atment works is stored hazardous under the	by information. DERTIES 4 ment works and the ude outfalls from by within ¼ mile of the oplicant. d, treated, or dispos Resource Conserv	LC pipes or other structures pass piping, if property boundaries of sed. ration and Recovery Act
7.3	Facility SIC Code:	D	ischarge SIC Code:		
7.4	Number of people presently conne	cted or population equivale	nt (P.E.): 4425	Design P.E.	5107
7.5	Connections to the facility: Number of units presently connection Homes <u>1870</u> Trailers Number of Commercial Establis	Apartments	Other (including indu	ustrial) <u>294</u>	
7.6	Design Flow	A	ctual Flow 0.5	MGD	
7.7	Will discharge be continuous throu Discharge will occur during the foll		No 🗌 y days of the week wi	Il discharge occur?	
7.8	Is industrial wastewater discharged If yes, describe the number and ty		Yes Yes Arge to your facility. At	No 🕅 tach sheets as nece	essary
	Refer to the APPLICATION OVER				tF.
7.9	Does the facility accept or process	leachate from landfills?:	Yes 🔀		
7.10	Is wastewater land applied? If yes, is Form I attached?		Yes 🗖		
7.11	Does the facility discharge to a los	ng stream or sinkhole?	Yes 🗌	No 🔀	
7.12	Has a wasteload allocation study b	been completed for this facil	lity? Yes	No 🔀	
8.	LABORATORY CONTROL INFO	RMATION			
	LABORATORY WORK CONDUCT Lab work conducted outside of pla Push-button or visual methods for Additional procedures such as Dis Oxygen Demand, titrations, solids, More advanced determinations sur	nt. simple test such as pH, set solved Oxygen, Chemical O volatile content.	ttleable solids. Dxygen Demand, Biolo	Yes ₩ Yes ⊠ gical Yes ⊠	No 🛄 No 🗍
	nutrients, total oils, phenols, etc. Highly sophisticated instrumentation			Yes 🔲 graph. Yes 🗖	No 🔀 No 🛃
780.18	305 (09-16)				Page 4

FACILI	TY NAME	PERMIT N	0.		OUTFALL NO.	
		MO-				
PAR	T A - BASIC APPLICATIO					
9.	SLUDGE HANDLING, U	SE AND DISPOSAL	TRANS SALES			
9.1	Is the sludge a hazardou	s waste as defined by	10 CSR 25? Ye	es 🗌	No 🗌	
9.2	Sludge production (Inclue	ding sludge received f	rom others): Design Dr	y Tons/Year	Actual D	ry Tons/Year
9.3	Sludge storage provided	: Cubic feet;	Days of storage;	Averag	e percent solids	of sludge;
	No sludge storage is	provided. 🗌 Sludge i	is stored in lagoon.			
9.4	Type of storage:	☐ Holding ☐ Basin ☐ Concrete		Building Lagoon Other (Descrik	e)	_
9.5	Sludge Treatment:					
	Anaerobic Digester	Storage Tank Air or Heat Drying	g 🗌 Lime Stab		☐ Lagoon ☐ Other (Att	ach Description)
9.6	Sludge use or disposal:			5		
	I Other / Attack Fundame	tion Chest	, Sludge Held For More		, _	cineration
	Other (Attach Explana Person responsible for ha		sal facility:		ADDRESS	
	Person responsible for ha	auling sludge to dispos	sal facility:			
NAME	Person responsible for ha	auling sludge to dispos	sal facility:			
ADDR	Person responsible for ha	auling sludge to dispos	sal facility: te below)	EMAIL	ADDRESS	
ADDR	Person responsible for ha	auling sludge to dispos	sal facility: te below)	EMAIL	ADDRESS	E ZIP CODE
	Person responsible for ha	auling sludge to dispos By Others (complet acility:	CITY TELEPHONE NUMBER	EMAIL	ADDRESS STAT	E ZIP CODE
	Person responsible for ha	auling sludge to dispos By Others (complet	CITY TELEPHONE NUMBER	EMAIL R WITH AREA CODE	ADDRESS STAT	E ZIP CODE
ADDRI	Person responsible for ha	auling sludge to dispos By Others (complet acility:	CITY TELEPHONE NUMBER	EMAIL R WITH AREA CODE	ADDRESS STAT PERM MO	E ZIP CODE
9.7 NAME ADDRI CONT/ 9.8 NAME	Person responsible for ha	auling sludge to dispos By Others (complet acility:	CITY TELEPHONE NUMBER	EMAIL R WITH AREA CODE	ADDRESS STAT PERM MO	E ZIP CODE
ADDRI CONT/ J.8	Person responsible for ha	auling sludge to dispos By Others (complet acility:	e below)	EMAIL	ADDRESS STAT PERM MO ADDRESS STAT	E ZIP CODE
ADDRI CONT/ 9.8	Person responsible for ha	auling sludge to dispos By Others (complet acility:	city city city telephone number e below)	EMAIL	ADDRESS STAT PERN MO- ADDRESS STAT PERN	E ZIP CODE
ADDRI CONT/ 9.8 NAME	Person responsible for ha	auling sludge to dispos By Others (complet facility: By Others (Complet	city city tebelow) city telephone number e below) city telephone number	EMAIL R WITH AREA CODE	ADDRESS STAT PERN MO ADDRESS STAT PERN MO	E ZIP CODE
ADDRI CONT/ 9.8 ADDRI ADDRI CONT/	Person responsible for ha	auling sludge to dispos By Others (complet facility: By Others (Complet	city city tebelow) city telephone number e below) city telephone number	EMAIL R WITH AREA CODE	ADDRESS STAT PERN MO ADDRESS STAT PERN MO	E ZIP CODE

FACILITY N		PERMIT NO.	1-1	OUTFALL NO.
	MAR WWTF B-ADDITIONAL APPLICATION I	MO- 004417	a	8
	COLLECTION SYSTEM	NORMATION		
10.1 L	ength of sanitary sewer collection	system in miles		
10.2	Does significant infiltration occur in If yes, briefly explain any steps und	derway or planned to mi		
	USING SEWER CAME CONTRACTING FOR			ATTONS.
	USING CONTRACTO	R TO LINE N	IANHOLES	
I1. B	YPASSING			
Does ar If yes, e	ny bypassing occur anywhere in th xxplain:	e collection system or a	the treatment facility?	Yes 🗌 No 🔀
	PERATION AND MAINTENANCE	and the second se		quality) of the treatment works the
Yes [] If Yes, I	sibility of the contractor? No 📈			be the contractor's responsibilities.
NAME				
MAILING A	DDRESS			
ELEPHON	NE NUMBER WITH AREA CODE		EMAIL ADDRESS	
RESPONSI	BILITIES OF CONTRACTOR	42-		
Provide wastew		ed implementation scheo design capacity of the tre	lule or uncompleted plan eatment works. If the tre	ns for improvements that will affect the eatment works has several different es for each.

FACILITY NAME	WWT	E	MO-004	4172		OUTFAL	OUTFALL NO.			
PART B - ADDITIO	ONAL APPI	LICATION INF	ORMATION	٧						
14. EFFLUENT						An instanting				
Applicants must pro through which eff reported must be b comply with QA/QC not addressed by 4 more than four and	luent is dis ased on dat requireme 0 CFR Part	charged. Do ta collected th nts of 40 CFR 136. At a mir	not include rough analys Part 136 an	information of sis conducted id other appr	of combined s d using 40 CF opriate QA/Q	ewer overflows R Part 136 me C requirements	s in this section thods. In add s for standard	on. All inf dition, this methods	ormation data must for analytes	
Outfall Number /										
PAR	AMETER		MAXI	MUM DAILY	VALUE		VERAGE DA	AILY VAL	UE	
			Va	alue	Units	Value	Units		er of Samples	
pH (Minimum)			7	.9	S.U.	8.1	S.U.	1		
pH (Maximum)			8	6	S.U.	8.1	S.U.	7		
Flow Rate	ow Rate			63	MGD	0,654	MGD	D 30		
*For pH report a mi	nimum and	a maximum d	aily value							
POLLUTA	UT.	MAXIMU DISCH		AVERA	GE DAILY D	ISCHARGE	ANALYTICAL		ML/MDL	
FOLLOTA	NI	Conc.	Units	Conc.	Units Number of Samples		METHOD		MEMBE	
Conventional and N	onconventi	ional Compou	nds							
BIOCHEMICAL OXYGEN	BOD ₅	2.7	mg/L	0.8	mg/L	7	COMPOSITE			
DEMAND (Report One)	CBOD ₅		mg/L		mg/L				_	
E. COLI		110	#/100 mL	ND < 0.5	#/100 mL	13	GRAI	3		
TOTAL SUSPEND SOLIDS (TSS)	ED	15.2	mg/L	7.03	mg/L	7	Compos	ITE		
AMMONIA (as N)			mg/L		mg/L					
CHLORINE* (TOTAL RESIDUAL	, TRC)	NA	mg/L		mg/L					
DISSOLVED OXYC	SEN	10	mg/L	5.8	mg/L	7	GRAE	3		
OIL and GREASE		ND < 2.5	mg/L	ND < 2.5	mg/L	3	GRAB			
OTHER			mg/L		mg/L					
*Report only if facili	ty chlorinate	es								
			1.849716	END OF P	ARTB			2 STAR	The state	

780-1805 (09-16)

Page 7

FACILITY NAME	WWTF	PERMIT NO.		OUTFALL NO.
PART C - CERTI	EICATION	MO- 0044172		
and the second se	NIC DISCHARGE MONIT	ORING REPORT (eDM	R) SUBMISSION SYS	TEM
Per 40 CFR Part 1 and monitoring shi consistent set of d visit <u>http://dnr.mo.d</u> - You have con C - You have pre eDMR system.	27 National Pollutant Disc all be submitted by the pe ata. One of the followin gov/env/wpp/edmr.htm to npleted and submitted wit viously submitted the requ	charge Elimination Syst rmittee via an electronic g must be checked in access the Facility Part h this permit application uired documentation to	em (NPDES) Electronic c system to ensure time order for this applica icipation Package. the required documen participate in the eDMR	c Reporting Rule, reporting of effluent limits ely, complete, accurate, and nationally- tion to be considered complete. Please tation to participate in the eDMR system. R system and/or you are currently using the ructions for further information regarding
waivers.				
10. CERTIFICA				
applicants must co	mplete all applicable sect that they have reviewed to	tions as explained in the	Application Overview.	an officer of the company or city official. All By signing this certification statement, s that apply to the facility for which this
ALL APPLICANT	S MUST COMPLETE TH	E FOLLOWING CERTIN	FICATION.	
with a system design inquiry of the person information is, to the	igned to assure that qualit on or persons who manag	fied personnel properly ge the system or those p and belief, true, accurat	gather and evaluate the persons directly respon te and complete. I am a	my direction or supervision in accordance e information submitted. Based on my sible for gathering the information, the aware that there are significant penalties for violations.
PRINTED NAME	ILL CALTON		OFFICIAL TITLE (MUST BE AN	OFFICER OF THE COMPANY OR CITY OFFICIAL)
LY	NN CALTON		CITY ADM.	INISTRATOR
SIGNATURE	your Calton	,		
TELEPHONE NUMBER WI	TH AREA CODE 7 - 682 - 5554	:		
DATE SIGNED	8-9-17			
	e permitting authority, you orks or identify appropriate			v to assess wastewater treatment practices
Send Completed F	orm to:			
		Department of Na	atural Resources	
		Water Protec	tion Program	
	A	TTN: NPDES Permits		n
		P.O. B Jefferson City, N		
DEEED TO		END OF	PART C	FORM B2 YOU MUST COMPLETE.
		the state of the second s	Contraction of the second second second second	ements applies to your facility:
	Your facility design flow is			
	Your facility is a pretreatm		, , , , , , , , , , , , , , , , , , ,	
3.	Your facility is a combined	sewer system.		
Submittal of an inc forfeited. Permit fe	omplete application may ses for applications being	result in the application processed by the depa	being returned. Perminter that are withdraw	t fees for returned applications shall be wn by the applicant shall be forfeited.
780-1805 (09-16)				Page 8
				r aye o

MAKE ADDITIONAL	COPIES C	OF THIS F	ORM FO	OR EACH	OUTFA	LL					
FACILITY NAME	VTE				+417	2.		OUTFA	LL NO.		
PART D - EXPANDE		ENT TES			1110	~					
17. EXPANDED E	FFLUENT	TESTING	DATA			1477 1471					
Refer to the APPLICA	TION OVE	ERVIEW t	o determ	ine wheth	ner Part I	D applies	to the tre	atment wo	rks.		
If the treatment works pretreatment program following pollutants. If include information of analysis conducted us identifying, and meas Part 136 and other ap the blank rows provide data must be based of	, or is othe Provide the combined sing 40 CF uring the c propriate (ed below a	erwise req indicated sewer ov R Part 13 oncentrat QA/QC re ny data y	uired by d effluent erflows i 6 metho ions of p quiremen ou may l	the permit testing in n this sec ds. The fa ollutants. nts for sta nave on p	itting aut formatio tion. All acility sh In addition ndard mo ollutants	hority to p n for eac informatic all use su on, this da ethods for not speci	novide the normalization of the fficiently that must of analytes fically list	e data, the through we ed must be sensitive a comply with a not addre ted in this f	n provide ef /hich efflue based on d nalytical me n QA/QC re- ssed by 40 orm. At a n	ffluent testing date ent is discharge lata collected thread thods for detecting quirements of 40 CFR Part 136. I minimum, effluent	d. Do not ough ng, CFR ndicate in
Outfall Number (Com	plete Once	for Each	Outfall D	Dischargin	g Effluer	nt to Wate	rs of the	State.)			
	MAXI	MUM DAI	LY DISC	HARGE		AVERAG	E DAILY	DISCHAR	GE		
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	ANALYTICAL METHOD	ML/MDL
METALS (TOTAL RECO	VERABLE), CYANID	E, PHEN	OLS AND	HARDNE	SS					
ALUMINUM	NIA										
ANTIMONY	NIA										
ARSENIC	NIA										
BERYLLIUM	N/A							1			
CADMIUM	NIA										
CHROMIUM III	ND	nall	ND	ught	ND	ugh	ND	uall	3	GKAB	
CHROMIUM VI	ND	uall	ND	Ing/l	ND	ugle	ND	49/9	3	GRAB	
COPPER	13.2	ugil	13.2	ugle	9,83	ught	ND	ugil	4	GRAB	
IRON	ND	ugle	ND	ught	ND	ugle	ND	mg/l	3	GRAB	
LEAD	N/A	114		/		1		1			
MERCURY	N/A										
NICKEL	NIR										
SELENIUM	NIA										
SILVER	NA										
THALLIUM	NA										
ZINC	ND	uald	ND	ught	ND	ugle	ND	ugle	3	GRAB	
CYANIDE	ND	ugle	ND	49/2	ND	ught	ND	ug/l	3	GRAB	
TOTAL PHENOLIC COMPOUNDS	NIA	Ja		1		1					
HARDNESS (as CaCO ₃)	270	mall	270	mgle	244	mgle	244	mall	3	GRAB	
VOLATILE ORGANIC C	OMPOUND	S		/				J			
ACROLEIN	N/A										
ACRYLONITRILE	NA										
BENZENE	NIA										
BROMOFORM	NIA										
CARBON TETRACHLORIDE	N/A										ace 9

FACILITY NAME				PERMIT NO.					OUTFALL NO.			
PART D - EXPANDED	EFFLUE	INT TES		TA				1.2.2.5				
17. EXPANDED EF	FLUENT	TESTING	DATA									
Complete Once for Eac	h Outfall	Discharg	ing Efflue	ent to Wa	ters of the	e State						
	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL		
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	METHOD	ML/MDL	
CHLOROBENZENE	-											
CHLORODIBROMO- METHANE												
CHLOROETHANE												
2-CHLORO-ETHYLVINYL ETHER												
CHLOROFORM												
DICHLOROBROMO- METHANE												
1,1-DICHLORO-ETHANE												
1,2-DICHLORO-ETHANE												
TRANS-1,2- DICHLOROETHYLENE 1,1-DICHLORO- ETHYLENE												
1,2-DICHLORO-PROPANE												
1,3-DICHLORO- PROPYLENE												
ETHYLBENZENE												
METHYL BROMIDE							_					
METHYL CHLORIDE												
METHYLENE CHLORIDE												
1,1,2,2-TETRA- CHLOROETHANE												
TETRACHLORO-ETHANE												
TOLUENE		-										
1,1,1-TRICHLORO- ETHANE												
1,1,2-TRICHLORO- ETHANE												
TRICHLORETHYLENE												
VINYL CHLORIDE										_		
ACID-EXTRACTABLE CO	MPOUND	os										
P-CHLORO-M-CRESOL												
2-CHLOROPHENOL												
2,4-DICHLOROPHENOL												
2,4-DIMETHYLPHENOL												
4,6-DINITRO-O-CRESOL												
2,4-DINITROPHENOL												
2-NITROPHENOL												
4-NITROPHENOL 780-1805 (09-16)											Page 10	

FACILITY NAME			PERMI MO-	PERMIT NO.					OUTFALL NO.			
PART D - EXPANDED	EFFLUE	NT TES		ТА			N. R. L.R.				A States	
17. EXPANDED EF	FLUENT	TESTING	DATA				23.20				1101 721	
Complete Once for Ea	ch Outfall	Discharg	ing Efflue	ent to Wa	ters of the	e State.						
	MAXIN	IUM DAII	Y DISCH	ARGE	ŀ	VERAG	E DAILY	DISCHA	RGE	ANALYTICAL		
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	METHOD	ML/MDL	
PENTACHLOROPHENOL												
PHENOL		-										
2,4,6-TRICHLOROPHENOL												
BASE-NEUTRAL COMP	OUNDS											
ACENAPHTHENE												
ACENAPHTHYLENE							1					
ANTHRACENE												
BENZIDINE												
BENZO(A)ANTHRACENE												
BENZO(A)PYRENE										_		
3,4-BENZO- FLUORANTHENE												
BENZO(GH) PHERYLENE												
BENZO(K) FLUORANTHENE												
BIS (2-CHLOROTHOXY) METHANE												
BIS (2-CHLOROETHYL) – ETHER												
BIS (2-CHLOROISO- PROPYL) ETHER							_					
BIS (2-ETHYLHEXYL) PHTHALATE												
4-BROMOPHENYL PHENYL ETHER												
BUTYL BENZYL PHTHALATE												
2-CHLORONAPH- THALENE												
4-CHLORPHENYL PHENYL ETHER												
CHRYSENE							_					
DI-N-BUTYL PHTHALATE												
DI-N-OCTYL PHTHALATE												
DIBENZO (A,H) ANTHRACENE												
1,2-DICHLORO-BENZENE												
1,3-DICHLORO-BENZENE												
1,4-DICHLORO-BENZENE												
3,3-DICHLORO- BENZIDINE												
DIETHYL PHTHALATE												
DIMETHYL PHTHALATE 780-1805 (09-16)											Page 11	

FACILITY NAME			PERMIT NO. MO-					OUTFAI	OUTFALL NO.			
PART D - EXPANDED E	FFLUEN	T TESTIN	NG DATA								150	
17. EXPANDED EFFL	UENT TE	STING D	ATA		1 H.S.		Nome a					
Complete Once for Each												
DOLLUTANT		1	Y DISCH					DISCHA		ANALYTICAL	ML/MD	
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	METHOD		
2,4-DINITRO-TOLUENE												
2,6-DINITRO-TOLUENE	1											
1,2-DIPHENYL-HYDRAZINE										12 -		
FLUORANTHENE												
FLUORENE												
HEXACHLOROBENZENE				_								
HEXACHLOROBUTADIENE												
HEXACHLOROCYCLO- PENTADIENE												
HEXACHLOROETHANE												
INDENO (1,2,3-CD) PYRENE					_			-				
ISOPHORONE												
NAPHTHALENE												
NITROBENZENE												
N-NITROSODI- PROPYLAMINE												
N-NITROSODI- METHYLAMINE										·		
N-NITROSODI- PHENYLAMINE												
PHENANTHRENE	41											
PYRENE												
1,2,4-TRICHLOROBENZENE												
Use this space (or a sepa	arate shee	et) to prov	vide inform	nation on	other po	llutants n	ot specif	ically liste	d in this form	۱.		
		-										
			-									
			-									
									-			
	-											
			2									
				EN	D OF PA	RTD		1				

MAKE ADDITIONAL COPIES OF THIS FORM	FOR EACH OUTFALL		
	ERMIT NO. 10-0044172	OUTFALL NO.	
PART E - TOXICITY TESTING DATA			
18. TOXICITY TESTING DATA			
Refer to the APPLICATION OVERVIEW to deter	mine whether Part E applies to	the treatment works.	
 Publicly owned treatment works, or POTWs, me tests for acute or chronic toxicity for each of the A. POTWs with a design flow rate greate B. POTWs with a pretreatment program C. POTWs required by the permitting au. At a minimum, these results must species (minimum of two species), prior to the application, provided t on the range of receiving water di information reported must be base addition, this data must comply wis standard methods for analytes no If EPA methods were not used, re all of the information requested be complete Part E. Refer to the application of the range of the provided to the information requested be complete Part E. Refer to the application of the range of the information requested be complete Part E. Refer to the application of the provided to the part E. Refer to the application of the provided to the part E. Refer to the application of the part E. Refer to the application of the part E. Refer to the part E. 	eting one or more of the following facility's discharge points. Facility's discharge points. Facility's discharge points. Facility's discharge points. Facility to submit data for these functions that are required to have thority to submit data for these functions and the results from four tests point for the results from four tests point for the results from four tests point and the results show no appreciable fution. Do not include information and the collected through and the QA/QC requirements of 40 C the addressed by 40 CFR Part 130 port the reason for using alterna- tion, they may be submitted in point.	ng criteria must provide the res ons per day ave one under 40 CFR Part 40 parameters 2-month period within the past performed at least annually in the toxicity, and testing for acute of about combined sewer over alysis conducted using 40 CFF FR Part 136 and other approp 6. ative methods. If test summari- place of Part E. If no biomonitic	3) one year using multiple he four and one-half years or chronic toxicity, depending flows in this section. All R Part 136 methods. In riate QA/QC requirements for es are available that contain pring data is required, do not
Indicate the number of whole effluent toxicity tes Complete the following chart for the last three w			
three tests are being reported.		ND	3 RD Most Recent
A Test la famo dia a	Most Recent	2 ND Most Recent	3 rd Most Recent
A. Test Information	F01 2012 \$ 2010		F72 224 \$ 744
Test Method Number	EPA 2002 \$ 2000	EPA 2002 É 2000	EPA 2002 & 2000
Final Report Number	60247498	60220897	60201897
Outfall Number	1	1	1
Dates Sample Collected	6-28-17	6-3-16	9-2-15
Date Test Started	6-28-17	6-8-16	9-2-15
Duration	48 HRS.	48 HRS.	48 HRS,
B. Toxicity Test Methods Followed			
Manual Title	ACUTE METHOD	ACUTE METHOD	ACUTE METHON
Edition Number and Year of Publication	USEPA, 2002	USEPA, 2002	USEPA, 2002
Page Number(s)	NIA	N/A	N/A
C. Sample collection method(s) used. For multi	ole grab samples, indicate the n	umber of grab samples used	
24-Hour Composite	x	x	×
Grab			
D. Indicate where the sample was taken in relati			
Before Disinfection	X		
After Disinfection			
After Dechlorination			
E. Describe the point in the treatment process a			
Sample Was Collected:	OUTFALL	QOUTFALL	@ OUTFALL
F. Indicate whether the test was intended to ass	and the second se	ty, or both	
Chronic Toxicity			
Acute Toxicity	\boxtimes		×
G. Provide the type of test performed			
Static	K	R	
Static-renewal			
Flow-through			
H. Source of dilution water. If laboratory water, s	specify type; if receiving water, s	specify source	
Laboratory Water	LAB PID NOT SPECIFY	ABDID NOT SPECIFY	LAB DID Nor SECIEF
Receiving Water			
780-1805 (09-16)			Page 13

LAMAR WWTF	MO- 004417:	2		1		
PART E - TOXICITY TESTING DATA					**	-
18. TOXICITY TESTING DATA (continued	and the second sec	-	1 0 11	1.15	Third March F	
	Most Ree			Most Recent	Third Most F	Recent
I. Type of dilution water. If salt water, specify		f artificial se	1			
Fresh Water	×			se	X	
Salt Water						
J. Percentage of effluent used for all concent			1 1 1 1 1 1	1 /	1011	
	6.25% 12		6,25%	12,5%	6.25%	12.59
	2540,5	040	25%		25%	50%
	100		100		100%	
K. Parameters measured during the test (Stat	and the second se		1		/	
рН	7.78 %	ES	7.29	YES	7.40 16	5
Salinity	NIA		N/A		NIA	
Temperature	25%	VES	250	YES	25° YES	5
Ammonia	NID	YES	N/D	YES	N/D YES	
Dissolved Oxygen	8.2	VES	8.1	YES	8,3 465	-
L. Test Results						
Acute:						
Percent Survival in 100% Effluent	1004	5	100)0/0	100%	
LC ₅₀	100%		100	2%	100%	
95% C.I.					1 - 10	
Control Percent Survival						
Other (Describe)						10.7
Chronic:						
NOEC						
IC ₂₅						
Control Percent Survival						
Other (Describe)						
M. Quality Control/ Quality Assurance						
Is reference toxicant data available?	NIA		NIA	1	NIA	
Was reference toxicant test within acceptable bounds?	NIA		N/A		NIA	
What date was reference toxicant test run (MM/DD/YYYY)?	N/A		N/A		NIA	
Other (Describe)			-		_	
Is the treatment works involved in a toxicity re If yes, describe:	duction evaluation?	□ Y	es	X No		
If you have submitted biomonitoring test inform years, provide the dates the information was s						e-half
Date Submitted (MM/DD/YYYY)						
Summary of Results (See Instructions)						
	END	OF PART E				

MAK	E ADDITIONAL COPIES OF THIS FO	RM FOR EACH OUTFALL				
FACILIT	LAMAR WWTF	PERMIT NO. MO-0044172		OUTFALL NO.		
PART	F - INDUSTRIAL USER DISCHARC	SES AND RCRA/CERCLA	WASTES			
Refer	to the APPLICATION OVERVIEW to	determine whether Part F a	oplies to the treat	ment works.		1
19.	GENERAL INFORMATION	计算机 关系				
19.1	Does the treatment works have, or is ☐ Yes	s it subject to, an approved p	pretreatment prog	ram?		
19.2 20.	Number of Significant Industrial User following types of industrial users that Number of non-categorical SIUs Number of CIUs INDUSTRIES CONTRIBUTING MOR SIGNIFICANT INDUSTRIAL USERS	t discharge to the treatment	works:			
reque	ly the following information for each S ested for each. Submit additional page	U. If more than one SIU dis	charges to the tre	eatment works, provide	e the info	mation
NAME	NIA					
MAILING	G ADDRESS		CITY		STATE	ZIP CODE
20.1	Describe all of the industrial process	es that affect or contribute to	the SIU's discha	arge N/A	1	
20.2	Principal Product(s):					
20.3	b. NON-PROCESS WASTEWATER the collection system in gallons	day, or gpd, and whether the tinuous	e discharge is cor mittent average daily volu r the discharge is	ntinuous or intermittent	astewater	
20.4	Pretreatment Standards. Indicate wh					
20.4	a. Local Limits	Yes	No No	NIA		
	b. Categorical Pretreatment Standa		No			
	If subject to categorical pretreatment			,		
20.5	Problems at the treatment works attr (e.g., upsets, interference) at the treat Ves In No If Yes, describe each episode			he SIU caused or cont	tributed to	any problems
780-1	1805 (09-16)					Page 15

	E ADDITIONAL COPIES OF THIS FOR	M FOR EACH OUTFALL	
FACILIT	YNAMELAMAR WWTF	PERMIT NO. MO-0044172	OUTFALL NO.
PART	F - INDUSTRIAL USER DISCHARGE	S AND RCRA/CERCLA WASTES	
21.	RCRA HAZARDOUS WASTE RECEIV	ED BY TRUCK, RAIL, OR DEDICATED PI	PELINE
21.1	Does the treatment works receive or happipe?	as it in the past three years received RCRA h s XNo	nazardous waste by truck, rail or dedicated
		ved. (Check all that apply)	NIA
21.3	Waste Description		
	EPA Hazardous Waste Number	Amount (volume or mass)	Units
22.	CERCLA (SUPERFUND) WASTEWAT REMEDIAL ACTIVITY WASTEWATE	TER, RCRA REMEDIATION/CORRECTIVE	ACTION WASTEWATER, AND OTHER
22.1	☐ Yes	has it been notified that it will) receive waste No	
22.2		d information for each current and future site pe of facility at which the CERCLA/RCRA/or ears).	
22.3	List the hazardous constituents that are known. (Attach additional sheets if neo		Included data on volume and concentration, if
22.4	Waste Treatment		
		ated) prior to entering the treatment works?	
	If Yes, describe the treatment (pro	vide information about the removal efficiency	y):
	b. Is the discharge (or will the discharge	e be) continuous or intermittent?	
	If intermittent, describe the dischar	rge schedule:	
	R TO THE APPLICATION OVERVIEW	END OF PART F TO DETERMINE WHICH OTHER PARTS (DF FORM B2 YOU MUST COMPLETE. Page 16

MAK	E ADDITIONAL COPIES OF THIS FOR	M FOR EACH OUTFALL								
FACILIT	YNAME	PERMIT NO. MO-		DUTFALL NO.						
PAR	G - COMBINED SEWER SYSTEMS									
Refer	to the APPLICATION OVERVIEW to de	etermine whether Part G applie	s to the treatmen	t works.						
23.	GENERAL INFORMATION									
23.1	System Map. Provide a map indicating	g the following: (May be include	d with basic app	lication information.)						
	A. All CSO Discharges.	tially Affected by CCOp (a.e. b	aaabaa duintiinu	water eventing the lifet hade consisting						
	 B. Sensitive Use Areas Potentially Affected by CSOs. (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems and Outstanding Natural Resource Waters.) 									
	C. Waters that Support Threatened and Endangered Species Potentially Affected by CSOs.									
23.2	System Diagram. Provide a diagram,	either in the map provided abo	/e or on a separa	ate drawing, of the Combined Sewer						
	Collection System that includes the foll									
		runk Lines, Both Combined an Separate Sanitary Sewers Feed								
	C. Locations of In-Line or Off-		into the combin	led Sewer System.						
	D. Locations of Flow-Regulatin									
	E. Locations of Pump Stations	S								
23.3	Percent of collection system that is con	and the second sec								
23.4	Population served by combined sewer									
23.5	Name of any satellite community with c									
24.	CSO OUTFALLS. COMPLETE THE F	OLLOWING ONCE FOR EAC	I CSO DISCHA	RGE POINT						
24.1	Description of Outfall									
	a. Outfall Number									
	b. Location									
	c. Distance from Shore (if applicable)	4								
	d. Depth Below Surface (if applicable)									
	e. Which of the following were monitore		802							
		CSO Pollutant Concentrations								
		Receiving Water Quality								
	f. How many storm events were monitor									
24.2	CSO Events									
	a. Give the Number of CSO Events in t	he Last Year Events	Actual	Approximate						
	b.		Give the Av	erage Duration Per CSO Event						
	Hours			Approximate						
	с.		Give the Av	erage Volume Per CSO Event						
	Million Gallons			Approximate						
	d. Give the minimum rainfall that cause	d a CSO event in the last year	inches	of rainfall						
24.3	Description of Receiving Waters									
	a. Name of Receiving Water									
	b. Name of Watershed/River/Stream Sy									
	c. U.S. Soil Conservation Service 14-D									
	d. Name of State Management/River Ba									
	e. U.S. Geological Survey 8- Digit Hydr	ologic Cataloging Unit Code (If	Known)							
	CSO Operations		1. 000 (
	anent or intermittent shellfish bed closing			ermanent or intermittent beach closings,						
	quality standard.)									
DEEE		END OF PART G								
	R TO THE APPLICATION OVERVIEW 805 (09-16)	TO DETERMINE WHICH OTH	ER PARTS OF	FORM B2 YOU MUST COMPLETE. Page 17						

1.8

INSTRUCTIONS FOR COMPLETING FORM B2 APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS PER DAY, Form 780-1805

(Facilities less than or equal to 100.000 gallons per day of domestic waste must use Form B, 780-1512.)

PART A - BASIC APPLICATION INFORMATION

Annual fee/Design flow

\$150.....<<5,000 gpd

\$300......5,000-9,999 gpd

1. Check the appropriate box. **Do not check more than one item.** Operating permits refer to permits issued by the Department of Natural Resources, Water Protection Program. If an Antidegradation Review has not been conducted, submit the application located at the following link, to the Missouri Department of Natural Resources, Water Protection Program, P.O. Box 176, Jefferson City, MO 65102: <u>dnr.mo.gov/forms/780-1893-f.pdf</u>.

1.1 Fees Information:

DOMESTIC OPERATING PERMIT FEES – PRIVATE

Annual operating permit fees are based on flow.

Annual fee/Design flow \$1,000.....15,000-24,999 gpd \$1,500.....25,000-29,999 gpd \$3,000.....30,000-99,999 gpd Annual fee/Design flow \$4,000......100,000-249,999 gpd \$5,000......≥250,000 gpd

\$600......10,000-14,999 gpd \$3,000.....30,000-99,999 gpd New domestic wastewater treatment facilities must submit the annual fee with the original application. If the application is for a site-specific permit re-issuance, send no fees. You will be invoiced separately by the department on the anniversary date of the original permit. Permit fees must be current for the department to reissue the operating permit. Late fees of two percent per month are charged and added to outstanding annual fees.

PUBLIC SEWER SYSTEM OPERATING PERMIT FEES (City, public sewer district, public water district, or other publicly owned treatment works) Annual fee is based on number of service connections. Fees listings are found in 10 CSR 20-6.011 which is available at http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf. New public sewer system facilities should not submit any fee as the department will invoice the permittee.

OPERATING PERMIT MODIFICATIONS, including transfers, are subject to the following fees:

- a. Publicly Owned Treatment Works (POTWs) \$200 each.
- b. Non-POTWs \$100 each for a minor modification (name changes, address changes, other non-substantive changes) or a fee equal to 25 percent of the facility's annual operating fee for a major modification.
- Name of Facility Include the name by which this facility is locally known. Example: Southwest Sewage Treatment Plant, Country Club Mobile Home Park, etc. Provide the street address or location of the facility. If the facility lacks a street name or route number, provide the names of the closest intersection, highway, country road, etc.
- 2.1 Self-explanatory.
- 2.2 Global Positioning System, or GPS, is a satellite-based navigation system. The department prefers that a GPS receiver is used and the displayed coordinates submitted. If access to a GPS receiver is not available, use a mapping system to approximate the coordinates; the department's mapping system is available at www.dnr.mo.gov/internetmapviewer/.
- 2.3-2.4 Self-explanatory.
- Owner Provide the legal name, mailing address, phone number, and email address of the owner.
- 3.1 Prior to submitting a permit to public notice, the Department of Natural Resources shall provide the permit applicant 15 days to review the draft permit for nonsubstantive drafting errors. In the interest of expediting permit issulance, permit applicants may waive the opportunity to review draft permits prior to public notice.
- 3.2-3.4 Self-explanatory.
- 4. Continuing Authority Provide information for the permanent organization which will serve as the continuing authority for the operation, maintenance, and modernization of the facility. The regulatory requirement regarding continuing authority is available at http://s1.sos.mo.gov/cmsimages/adrules/csr/current/10csr/10c20-6.pdf or contact the Department of Natural Resources Water Protection, Program (see contact information below).
- 5. Operator Provide the name, certificate number, title, mailing address, phone number, and email address of the operator of the facility.
- 6. Provide the name, title, mailing address, work phone number, and email address of a person who is thoroughly familiar with the operation of the facility and with the facts reported in this application and who can be contacted by the department.

INSTRUCTIONS FOR COMPLETING FORM B2 APPLICATION FOR OPERATING PERMIT FOR FACILITIES THAT RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS PER DAY

(continued)

PART B – ADDITIONAL APPLICATION INFORMATION

10.-14. Self-explanatory

PART C - CERTIFICATION

15. Electronic Discharge Monitoring Report (eDMR) Submission System – Visit the eDMR site at <u>http://dnr.mo.gov/env/wpp/edmr.htm</u> and click on the "Facility Participation Package" link. The eDMR Permit Holder and Certifier Registration Form and information about the eDMR system can be found in the Facility Participation Package.

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

- a. members of religious communities that choose not to use certain technologies or
- b. permittees located in areas with limited broadband access. The National Telecommunications and Information Administration (NTIA) in collaboration with the Federal Communications Commission (FCC) have created a broadband internet availability map: <u>http://www.broadbandmap.gov/</u>. Please contact the Department if you need assistance.
- 16. Signature All applications must be signed as follows and the signatures must be original:
 - a. For a corporation, by an officer having responsibility for the overall operation of the regulated facility or activity or for environmental matters.
 - b. For a partnership or sole proprietorship, by a general partner or the proprietor.
 - c. For a municipal, state, federal or other public facility, by either a principal executive officer or by an individual having overall responsibility for environmental matters at the facility.

PART D - EXPANDED EFFLUENT TESTING DATA

17. Self-explanatory. ML/MDL means minimum limit or minimum detection limit.

PART E - TOXICITY TESTING DATA

18. Self- explanatory.

PART F - INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

- 19. Federal regulations are available through the U.S. Government Printing Office at
- https://www.gpo.gov/fdsys/browse/collectionCfr.action?collectionCode=CFR.

19.1 Self – explanatory

- 19.2 A noncategorical significant industrial user is an industrial user that is not a CIU and meets one or more of the following: i. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions).
 - ii. Contributes a process waste stream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant.
 - iii. Is designated as an SIU by the control authority.

20.-22.4 Self-explanatory.

PART G - COMBINED SEWER SYSTEMS

23.-24.4 Self-explanatory.

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

This completed form and any attachments along with the applicable permit fees, should be submitted to:

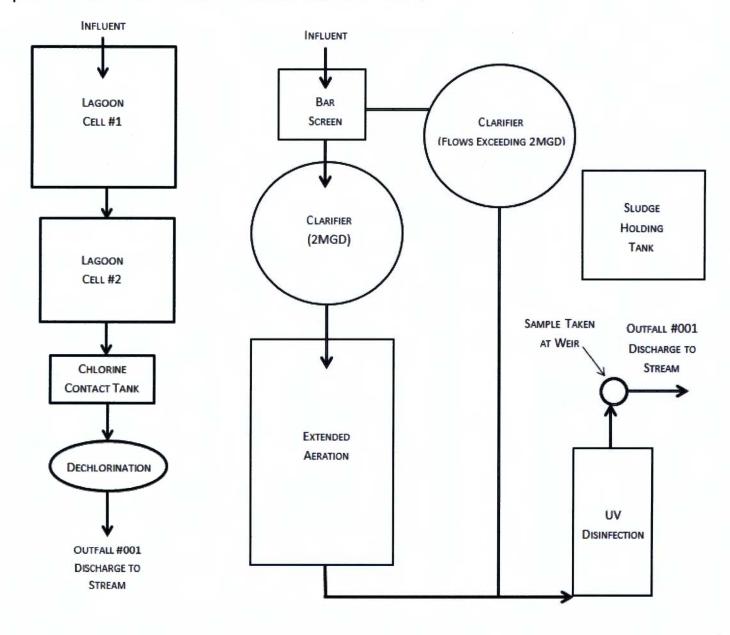
Department of Natural Resources Water Protection Program ATTN: NPDES Permits and Engineering Section P.O. Box 176 Jefferson City, MO 65102-0176

Map of regional offices with addresses and phone numbers are available on the web at <u>http://dnr.mo.gov/regions/</u>. If there are any questions concerning this form, contact the appropriate regional office or the Department of Natural Resources, Water Protection Program, Operating Permits Section at 800-361-4827 or 573-751-6825.

7.1 Process Flow Diagram Examples

WASTEWATER TREATMENT LAGOON

WASTEWATER TREATMENT FACILITY



7.2 A topographic map is available on the web at <u>www.dnr.mo.gov/internetmapviewer/</u> or from the Department of Natural Resources' Geological Survey in Rolla at 573-368-2125.

- 7.3 For Standard Industrial Codes visit <u>www.osha.gov/pls/imis/sicsearch.html</u> and for the North American Industry Classification System, visit <u>www.census.gov/naics</u> or contact the Department of Natural Resources' Water Protection Program.
- 7.4-7.8 Self explanatory.

7.9 If wastewater is land-applied submit form I: www.dnr.mo.gov/forms/780-1686-f.pdf.

7.10-8. Self-explanatory

9.1 A copy of 10 CSR 25 is available at <u>www.sos.mo.gov/adrules/csr/current/10csr/10csr.asp#10-25</u>.

9.2-9.9 Self - explanatory.



