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-0039748
Owner:	Trenton Municipal Utilities
Address:	1100 Main Street, Trenton, MO 64683
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Trenton Municipal Utilities Wastewater Treatment Plant
Facility Address:	98 Southwest Ash Lane, Trenton, MO 64683
Legal Description:	See Page 2
UTM Coordinates:	See Page 2
Receiving Stream:	See Page 2
First Classified Stream and ID:	See Page 2
USGS Basin & Sub-watershed No.:	See Page 2

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

FACILITY DESCRIPTION

See Page 2. The use or operation of this facility shall be by or under the supervision of a Certified "A" Operator.

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.

February 1, 2020 Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

Chris Wieberg, Director, Water Protection Program

June 30, 2024 Expiration Date

FACILITY DESCRIPTION (continued):

Outfall #001 - POTW

Mechanical bar screen / influent pump/peak flow pumps/storage lagoons/grit removal/oxidation ditch/final clarifiers/blending/chlorine disinfection/dechlorination/aerobic sludge holding/sludge dewatering/sludge thickening/land application of solids/lending of flows from the two cell lagoon with flows from secondary treatment prior to disinfection.

Design population equivalent is 60,000. Design flow is 3.0 million gallons per day. Actual flow is 1.79 million gallons per day. Design sludge production is 980 dry tons/year.

Legal Description:	Sec. 27, T61N, R24W, Grundy County
UTM Coordinates:	X=449620, Y=4434676
Receiving Stream:	Muddy Creek (P)
First Classified Stream and ID:	Muddy Creek (P) (557)
USGS Basin & Sub-watershed No.:	(10280102-1103)

<u>Outfalls #002 & #003</u> – Discharges from these outfalls are no longer authorized, and shall be subject to 40 CFR 122.41(m) and reported according to 40 CFR 122.41(m)(3)(i) & (ii). Discharges from these outfalls are addressed in a Settlement Agreement between the Department and the City of Trenton, dated September 13, 2016 and the Bypass Elimination Plan approved on March 20, 2018.

<u>Permitted Feature SM1</u> – Instream Monitoring Instream monitoring location – Upstream – See Special Condition #23

Receiving Stream:	Muddy Creek (P)
First Classified Stream and ID:	Muddy Creek (P) (557)
USGS Basin & Sub-watershed No.:	(10280102-1103)

Permitted Feature SM2 - Instream Monitoring

Instream monitoring location - Downstream - ~ 0.65 miles downstream of Outfall #001 on Muddy Creek - See Special Condition #23

Legal Description:	Sec. 28, T61N, R24W, Grundy County
UTM Coordinates:	X=449300, Y=4433704
Receiving Stream:	Muddy Creek (P)
First Classified Stream and ID:	Muddy Creek (P) (557)
USGS Basin & Sub-watershed No.:	(10280102-1103)

Permitted Feature INF - Influent Monitoring

Instream monitoring location - immediately downstream of the grit separation unit but upstream of any return activated sludge flow

Legal Description:	Sec. 27, T61N, R24W, Grundy County
UTM Coordinates:	X=449438, Y=4434634
USGS Basin & Sub-watershed No.:	(10280102-1103)

OUTFALL #001

TABLE A-1. INTERIM 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. In accordance with 10 CSR 20-7.031, the final effluent limitations outlined in **Table A-2** must be achieved as soon as possible but no later than <u>February 1, 2024</u>. These interim effluent limitations in **Table A-1** are effective beginning <u>February 1, 2020</u> and remain in effect through <u>January 31, 2024</u> or as soon as possible. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFLUENT PARAMETER(S)	FFTUR		INTERIM NT LIMITA	TIONS	MONITORING REQUIREMENTS		
EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Limit Set: M							
Flow	MGD	*		*	once/weekday	24 hr. total	
Biochemical Oxygen Demand ₅	mg/L		45	30	once/week (Note 2)	composite*	
Total Suspended Solids	mg/L		45	30	once/week (Note 2)	composite*	
E. coli (Note 1)	#/100mL		1030	206	once/week (Note 2)	grab	
Ammonia as N (April 1 – Sept 30) (Oct 1 – March 31)	mg/L	5.3 10.4		2.6 3.7	once/week (Note 2)	composite*:	
Total Residual Chlorine (Note 3)	μg/L	<130		<130	once/week (Note 2)	grab	
Total Phosphorus	mg/L	*		*	once/month	composite*	
Total Kjedhal Nitrogen	mg/L	*		*	once/month	composite*	
Nitrate + Nitrite	mg/L	*		*	once/month	composite*	
Oil & Grease	mg/L	15		10	once/month	grab	
Chloride	mg/L	*		*	once/month	composite*	
Copper, Total Recoverable	μg/L	*		*	once/month	composite*	
Lead, Total Recoverable	μg/L	*		*	once/month	composite*	
Zinc, Total Recoverable	μg/L	222		106.6	once/month	composite*	
EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM		DAILY MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	
pH – Units***	SU	6.0		9.0	once/week (Note 2)	grab	
Dissolved Oxygen	mg/L	*		*	once/week (Note 2)	grab	
EFFLUENT PARAMETER(S)		UNITS	MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE		
Biochemical Oxygen Demand ₅ – Per	cent Removal (I	Note 4, Page 6)	%	85	once/month	calculated	
Total Suspended Solids – Percent Re	moval (Note 4,	Page 6)	%	85	once/month	calculated	

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE MARCH 28, 2020.

* 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.

OUTFALL
#001

TABLE A-2. 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 in **Table A-2** shall become effective on **February 1, 2020** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

UNITS	EFFLUE	FINAL ENT LIMITA	TIONS	MONITORING REQUIREMENTS				
UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE			
Limit Set: Q								
mg/L	*		*	once/quarter****	composite**			
μg/L	*		*	once/quarter****	composite**			
μg/L	*		*	once/quarter****	composite**			
μg/L	*		*	once/quarter****	composite**			
	μg/L μg/L	UNITS DAILY MAXIMUM mg/L * µg/L * µg/L *	EFFLUENT LIMITA DAILY MAXIMUM WEEKLY AVERAGE mg/L * µg/L * µg/L *	EFFLUENT LIMITATIONSDAILY MAXIMUMWEEKLY AVERAGEMONTHLY AVERAGEmg/L**µg/L**µg/L**	UNITS MONITORING REQ DAILY MAXIMUM WEEKLY AVERAGE MONTHLY AVERAGE MEASUREMENT FREQUENCY mg/L * once/quarter**** µg/L * * once/quarter**** µg/L * * once/quarter****			

MONITORING REPORTS SHALL BE SUBMITTED **<u>QUARTERLY</u>**; THE FIRST REPORT IS DUE <u>APRIL 28, 2020</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.

**** See table below for quarterly sampling.

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

TABLE A-3. 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 in **Table A-3** shall become effective on **February 1, 2024** and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

EFFI HENTE DA DAMETED(S)	LINUTE EFFI		FINAL NT LIMITA	TIONS	MONITORING REQUIREMENTS		
EFFLUENT PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Flow	MGD	*		*	once/weekday	24 hr. Total	
Biochemical Oxygen Demand ₅	mg/L		45	30	once/week (Note 2)	composite**	
Total Suspended Solids	mg/L		45	30	once/week (Note 2)	composite**	
E. coli (Note 1)	#/100mL		1,030	206	once/week (Note 2)	grab	
Ammonia as N (April 1 – Sept 30) (Oct 1 – March 31)	mg/L	4.9 10.4		1.4 2.6	once/week (Note 2)	composite**	
Total Residual Chlorine (Note 3)	μg/L	<130		<130	once/week (Note 2)	grab	
Total Phosphorus	mg/L	*		*	once/month	composite**	
Total Kjedhal Nitrogen	mg/L	*		*	once/month	composite**	
Nitrate + Nitrite	mg/L	*		*	once/month	composite**	
Oil & Grease	mg/L	15		10	once/month	grab	
Chloride	mg/L	379.8		189.3	once/month	composite**	
Copper, Total Recoverable	μg/L	27.7		13.0	once/month	composite**	
Lead, Total Recoverable	μg/L	14.9		5.6	once/month	composite**	
Zinc, Total Recoverable	μg/L	222		106.6	once/month	composite**	
EFFLUENT PARAMETER(S)	UNITS	DAILY MINIMUM		DAILY MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	
pH – Units***	SU	6.0		9.0	once/week (Note 2)	grab	
Dissolved Oxygen	mg/L	*		*	once/week (Note 2)	grab	
EFFLUENT PARAMETER(S)				MONTHLY AVERAGE MINIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Biochemical Oxygen Demand ₅ – Per	cent Removal (I	Note 4, Page 6)	%	85	once/month	calculated	
Total Suspended Solids – Percent Re	moval (Note 4,	Page 6)	%	85	once/month	calculated	

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE MARCH 28, 2024.

* 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.

OUTFALL #001	TABLE A-4. 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 in Table A-4 shall become effective on February 1, 2020 and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:										
			FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS				
EFFLUENT PARAMETER(S)		UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE			
Acute Whole Ef	TU_a	*			once/year	composite**				
MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE JANUARY 28, 2022 .										
Chronic Whole	Effluent Toxicity (Note 6)	TU _c	*			once/5 years	composite**			
WET TEST REPORTS SHALL BE SUBMITTED ONCE PER PERMIT CYCLE; THE FIRST REPORT IS DUE JANUARY 28, 2021.										

* 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 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). Compliance with *E. Coli* effluent limitations are addressed in a Settlement Agreement between the Department and the City of Trenton dated September 13, 2016.

Note 2 - Sampling frequency of once/week is defined as the sampling of at least one (1) discharge event in each calendar week (Sunday through Saturday), when discharge occurs.

Note 3 - This permit contains a Total Residual Chlorine (TRC) limit.

- (a) The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be 17 μ g/L (daily maximum limit) and 8 μ g/L (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be 130 μ g/L when using the DPD Colorimetric Method #4500 CL G. from Standard Methods for the Examination of Waters and Wastewater. The permittee will conduct analyses in accordance with this method, or equivalent, and report actual analytical values. The minimum quantification level does not authorize the discharge of chlorine in excess of the effluent limits stated in the permit. Measured values greater than or equal to the minimum quantification level of 130 μ g/L will be considered violations of the permit and values less than the minimum quantification level of 130 μ g/L will be considered to be in compliance with the permit limitation.
- (b) Disinfection is required during the recreational season from April 1 through October 31. This permit does not authorize the use of chlorine or dechlorination chemicals outside the recreational season. Should the facility wish to chlorinate the effluent during the non-recreational season, the permitee must submit a permit modification request to the Department prior to adding chlorine to the effluent.
- (c) If chlorine or dechlorination chemicals were not used during a sampling period within the recreational season, an actual analysis for TRC is not necessary. Simply report as " $0 \mu g/L$ " for TRC.

Note 4 – Percent Removal conditions, in addition to the requirements in Table A, shall be conducted according to the requirements of Special Condition #3. Influent 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 24-hour composite sample, composed of 48 aliquots (subsamples) collected at 30 minute intervals by an automatic sampling.

- Note 5 The Acute WET test shall be conducted once per year. See Special Condition #20 for additional requirements.
- **Note 6** The Chronic WET test shall be conducted during the 2020 calendar year. See Special Condition #21 for additional requirements.

PERMITTED FEATURE INF

TABLE B-1. INFLUENT MONITORING REQUIREMENTS

The monitoring requirements in **Table B-1** shall become effective on <u>February 1, 2020</u> and remain in effect until expiration of the permit. The influent wastewater shall be monitored by the permittee as specified below:

		MONITORING REQUIREMENTS					
PARAMETER(S)	UNITS	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE	
Limit Set: IM		I					
Biochemical Oxygen Demand ₅ (Note 4)	mg/L			*	once/month	composite**	
Total Suspended Solids (Note 4)	mg/L			*	once/month	composite**	
Ammonia as N	mg/L	*		*	once/month	composite**	
Total Phosphorus	mg/L	*		*	once/month	composite**	
Total Kjeldahl Nitrogen	mg/L	*		*	once/month	composite**	
Nitrite + Nitrate	mg/L	*		*	once/month	composite**	

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE MARCH 28, 2020.

* Monitoring requirement only.

PERMITTED

FEATURE

<u>SM1</u>

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

TABLE C-1. INSTREAM MONITORING REQUIREMENTS

The monitoring requirements in **Table C-1** shall become effective on <u>February 1, 2020</u> and remain in effect until expiration of the permit. The stream shall be monitored by the permittee as specified below:

	INUMO	MONITORING REQUIREMENTS				
PARAMETER(S)	UNITS	DAILY MAXIMUM		MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Limit Set: UM						
Ammonia as N	mg/L	*		*	once/month	grab
Total Phosphorus	mg/L	*		*	once/month	grab
Total Kjeldahl Nitrogen	mg/L	*		*	once/month	grab
Nitrite + Nitrate	mg/L	*		*	once/month	grab

MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE MARCH 28, 2020.

* Monitoring requirement only.

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

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PERMITTED FEATURE <u>SM2</u>	TABLE C-2. INSTREAM MONITORING REQUIREMENTS						
The monitoring requirements in Table C-2 shall become effective on <u>February 1, 2020</u> and remain in effect until expiration of the permit. The stream shall be monitored by the permittee as specified below:							
PARAMETER(S)		UNITS	MONITORING REQUIREMENTS				
			DAILY MAXIMUM		MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Limit Set: DM							
Hardness, Total		mg/L	*		*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED MONTHLY; THE FIRST REPORT IS DUE MARCH 28, 2020.							
* Monitoring requirement only.							

D. SCHEDULE OF COMPLIANCE

The facility shall attain compliance with final effluent limitations for Ammonia as N, Total Recoverable Copper, Total Recoverable Lead, Sulfate, and Chloride as soon as reasonably achievable or no later than **January 1, 2024**.

- 1. The permittee shall submit interim progress reports detailing progress made in attaining compliance with the final effluent limits every 12 months from effective date.
- 2. By January 1, 2024, the permittee shall attain compliance with the final effluent limits.

Please submit progress reports or via the Electronic Discharge Monitoring Report (eDMR) Submission System.

E. 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 August 1, 2019</u>, and hereby incorporated as though fully set forth herein.

F. SPECIAL CONDITIONS

- 1. Electronic Discharge Monitoring Report (eDMR) Submission 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) Schedule of Compliance Progress Reports;
 - (3) Sludge/Biosolids Annual Reports;
 - i. In addition to the annual Sludge/Biosolids report submitted to the Department, the permittee must submit Sludge/Biosolids Annual Reports electronically using EPA's NPDES Electronic Reporting Tool ("NeT") (<u>https://cdx.epa.gov/</u>).
 - (4) Pretreatment Program Reports; and
 - (5) 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); and
 - (3) Bypass reporting, See Special Condition #10 for 24-hr. bypass reporting requirements.

- (d) Electronic Submissions. To access the eDMR system, use the following link in your web browser: https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx.
- (e) Waivers from Electronic Reporting. The permittee must submit compliance monitoring data and reports electronically. The Department may grant a waiver to a permittee 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.
- 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 or modification thereto pursuant to 40 CFR 403.8(c) or 40 CFR 403.18(e), respectively.
- 3. All outfalls must be clearly marked in the field. This does not include instream monitoring locations.
- 4. Trenton's approved Bypass Elimination Plan, the option to blend water from the lagoons with fully treated effluent from the secondary treatment process (oxidation ditch) is approved. Under normal operations, flows are treated through the oxidation ditch and then through the chlorine disinfection. During wet weather events, treatment through the oxidation ditch is maximized and excess flows are diverted to the existing lagoon system. The water from the lagoons can be blended with flows from the oxidation ditch as a result of the wet weather event, prior to the chlorine disinfection system. To obtain representative characterization of BOD and TSS as required in **Tables A-1** and **A-3**, Trenton shall:
 - (a) Record the influent concentration of BOD, flow and TSS daily during wet weather events when flows are sent to the lagoon storage basins;
 - (b) Monitor effluent BOD, flow and TSS daily when flows from the lagoon are blended with fully treated effluent from the oxidation ditch;
 - (c) Monitor influent and effluent BOD, flow and TSS daily at any time that blending occurs due to reasons not listed in this condition; and
 - (d) Submit with the monthly discharge monitoring reports, the days in which blending occurred.
- 5. Report as no-discharge when a discharge does not occur during the report period. For instream samples, report as "no flow" if no stream flow occurs during the report period.
- 6. 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.
 - (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
 - (f) When calculating monthly averages, use one-half of the method detection limit (MDL) instead of a zero. Where all data are below the MDL, the "<MDL" shall be reported as indicated in item (c).
- 7. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).

- 8. 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. Upon approval of the request, the Department will modify the permit.
- 9. The permittee shall develop and implement a program for maintenance and repair of its collection system. The permittee may compare collection system performance results and other data with the benchmarks used in the Departments' Capacity, Management, Operation, And Maintenance (CMOM) Model located at http://dnr.mo.gov/env/wpp/permits/docs/cmom-template.doc. Additional information regarding the Departments' CMOM Model is available 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 specific 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.
- 10. 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 Northeast Regional Office during normal business hours or by using the online Sanitary Sewer Overflow/Facility Bypass Application located at: https://dnr.mo.gov/mogem/ or the Environmental Emergency Response spillline 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 additional blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
- 11. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 12. 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.
- 13. An all-weather access road to the treatment facility shall be maintained.
- 14. The outfall sewer shall be protected and maintained against the effects of floodwater, ice, or other hazards as to reasonably insure its structural stability, freedom from stoppage, and 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.
- 15. Sludge/biosolids treatment, storage and disposal practices shall be conducted in accordance with Standard Conditions Part III.
- 16. The storage basin(s) shall be operated and maintained to ensure their structural integrity, which includes maintaining adequate freeboard and keeping the berms free of deep-rooted vegetation, animal dens, or other potential sources of damage.
- 17. The facility shall ensure that adequate provisions are provided to prevent or minimize surface water intrusion into the storage basin and to divert stormwater runoff around the storage basin and protect embankments from erosion.

- 18. Stormwater Pollution Prevention Plan (SWPPP): A SWPPP must be developed and implemented within 180 days of the effective date of the permit. Through implementation of the SWPPP, the permittee shalt prevent or minimize the generation and the potential for the release of pollutants from the facility to the waters of the state through normal operations and ancillary activities. The SWPPP shall be developed in accordance with the concepts and methods described in the following document: <u>Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators</u>, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.
 - (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.
 - (1) 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.
 - (2) 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.
 - (3) The routine inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
 - (4) 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, including flow dissipation measures to prevent scouring, 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.
 - (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.
- 19. The SWPPP must be reviewed and updated at a minimum once per permit cycle, as site conditions, or as control measures
 - (a) Permittee shall adhere to the following minimum Best Management Practices (BMPs):
 - (1) Minimize the use of water contaminants in the industrial activities at the facility.
 - (2) 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 possible.
 - (3) 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.
 - (4) Implement a maintenance program to ensure that the structural control measures and industrial equipment if kept in good operating condition and to prevent or minimize leaks and other releases of pollutants.
 - (5) Prevent the spillage or leaks of fluids, oil, grease, fuel, etc. from equipment and vehicle maintenance, equipment and vehicle cleaning, or activities and thereby prevent the contamination of stormwater from these substances.
 - (6) 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.

- (7) Provide stormwater runoff controls to divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff, to minimize pollutants in the stormwater discharge.
- (8) Enclose or cover storage piles of salt or piles containing salt, used for deicing or other commercial or industrial purposes.
- (9) 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.
- (10) Eliminate and prevent unauthorized non-stormwater discharges at the facility.
- (11) Minimize generation of dust and off-site tracking of raw, final, or waste materials by implementing appropriate control measures.
- 20. 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 laboratory shall not chemically dechlorinate the sample.
 - (e) The Allowable Effluent Concentration (AEC) is 100%; the dilution series is: 6.25%, 12.5%, 25%, 50%, and 100%.
 - (f) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
 - (g) 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.
- 21. Chronic 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 chronic toxicity of NPDES effluents are found in the most recent edition of *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms (EPA/821/R-02/013; Table IA, 40 CFR Part 136)*. The permittee shall concurrently conduct 7-day, static renewal toxicity tests with the following species:
 - o The fathead minnow, *Pimephales promelas* (Survival and Growth Test Method 1000.0).
 - o The daphnid, Ceriodaphnia dubia (Survival and Reproduction Test Method 1002.0).
 - (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 laboratory shall not chemically dechlorinate the sample.
 - (e) The Allowable Effluent Concentration (AEC) is 100%, the dilution series is: 100%, 50%, 25%, 12.5%, and 6.25%.
 - (f) All chemical and physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% effluent concentration.
 - (g) The facility must submit a full laboratory report for all toxicity testing. The report must include a quantification of chronic toxic units ($TU_c = 100/IC_{25}$) reported according to the *Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms* chapter on report preparation and test review. The 25 percent Inhibition Effect Concentration (IC_{25}) is the toxic or effluent concentration that would cause 25 percent reduction in mean young per female or in growth for the test populations.

- 22. The City's industrial pretreatment program is currently on "inactive" status because the conditions under which the City was required to establish a pretreatment program under 40 CFR 403.8(a) do not currently exist. The City shall provide the Department with at least a sixty (60) day advance notice of the acceptance of any new or changed industrial process wastewaters into the publicly owned treatment works. If an industry is determined by the Department to be a "significant industrial user" as defined in 40 CFR 403.3(t), this permit shall be reopened and modified to require either the reactivation of the pretreatment program or the development of a new pretreatment program in accordance with the current requirements of 40 CFR 403.8.
- 23. Receiving Water Monitoring Conditions
 - (a) In-stream receiving water samples should be taken at the location(s) specified on Page 2 of this permit. The upstream receiving water sample should be collected at a point upstream from any influence of the effluent, where the water is visibly flowing down stream. In the event that a safe, accessible location is not present at the location(s) listed, a suitable location can be negotiated with the Department. Samples should be taken at least four feet from the bank or from the middle of the stream (whichever is less) and 6-inches below the surface if possible.
 - (b) When conducting in-stream monitoring, the permittee shall record observations that include: the time of day, weather conditions, unusual stream characteristics (e.g., septic conditions, algae growth, etc.), the stream segment (e.g., riffle, pool or run) from where the sample was collected. These observations shall be submitted with the sample results.
 - (c) Samples shall not be collected from areas with especially turbulent flow, still water or from the stream bank, unless these conditions are representative of the stream reach or no other areas are available for sample collection. Sampling should not be made when significant precipitation has occurred recently. The sampling event should be terminated and rescheduled if any of the following conditions occur:
 - a. If turbidity in the stream increases notably; or
 - b. If rainfall over the past two weeks exceeds 2.5 inches or exceeds 1 inch in the last 24 hour.
 - (d) Always use the correct sampling technique and handling procedure specified for the parameter of interest. Please refer to the latest edition of Standard Methods for the Examination of Water and Wastewater for further discussion of proper sampling techniques. All analyses must be conducted in accordance with an approved EPA method. Meters shall be calibrated immediately (within 1 hour) prior to the sampling event.
 - (e) Please contact the Department if you need additional instructions or assistance.

MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF RENEWAL & MODIFICATION OF MO-0039748 TRENTON MUNICIPAL UTILITIES WWTP

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 Major facility

Part I – Facility Information

Facility Type: POTW

<u>Facility Description</u>: Mechanical bar screen / influent pump/peak flow pumps/storage lagoons/grit removal/oxidation ditch/final clarifiers/blending/chlorine disinfection/dechlorination/aerobic sludge holding/sludge dewatering/sludge thickening/land application of solids/lending of flows from the two cell lagoon with flows from secondary treatment prior to disinfection.
2,356 connections with 376 commercial connections.
60 miles of collection system
Design PE: 60,000
Design average flow is 3.0 MGD
Average flows based on January 2013- August 2019 is 1.79 MGD.
Design dry tons is 980 dry tons/year. Actual dry tons is 435 dry tons/year.

The wet weather storage lagoons, which were previously identified as Outfall #002 and #003 are 38 and 28 acres respectively.

Have any changes occurred at this facility or in the receiving water body that affects effluent limit derivation? \checkmark Yes;

- Construction of the chlorine disinfection/dechlorination system was covered under CP0001995. A Statement of Work Complete was received August 12, 2019. The permit now contains final effluent limits for total residual chlorine and dissolved oxygen monitoring.
- During wet weather events, the facility will maximize treatment through the secondary treatment system and will send excess flows to the storage basin lagoons. When the wet weather event subsides, water will be pumped to the facility and blended with the wastewater from the secondary treatment system prior to being disinfected. The facility will be capable of blending up to 1 MG from the storage basins per day. In the event there is need, the facility will be able to pump back to the storage basins to maintain the seal.

Expiration Date: 06/30/2019

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE
#001	4.55	Secondary	Domestic

Facility Performance History:

This facility was last inspected on June 15, 2017. The facility was in noncompliance due to failure to submit reports. An inspection in February 2018 found the facility in non-compliance due pretreatment issues, which has since been deactivated. In review of the discharge monitoring reports since the last operating permit was renewed in 2016 shows only one Zinc, Total Recoverable exceedance in September 2018. The facility has shown exceedances of *E. Coli*, however Trenton entered into a Settlement Agreement with the Department and installed chlorine disinfection by August 2019.

Comments:

Changes in this permit include the addition of speciated nitrogen monitoring in the influent, outfall, and instream monitoring, a schedule of compliance for chloride, copper, and lead, and the revision of the zinc effluent limit. See Part VI of the Fact Sheet for further information regarding the addition, revision, and removal of effluent parameters. Special conditions were updated to include the addition of inflow and infiltration reporting requirements, reporting of Non-detects, bypass reporting requirements, and the blending condition approved under the facility's Bypass Elimination Plan.

- Nutrient monitoring has been added per 10 CSR 20-7.015(9)(D) 8.B.
- In review of the discharge monitoring reports, the facility has reasonable potential for chlorides, total recoverable copper and lead, and a schedule of compliance was established for those parameters.
- In review of the expanded effluent testing, quarterly monitoring was added for total recoverable arsenic, total recoverable iron, and total recoverable selenium.

Part II – Operator Certification Requirements

 \checkmark 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 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	
Annicipalities	- State agency
- County	- Public Water Supply Districts
- Public Sewer District	- Private Sewer Company regulated by the Public Service Commission

Each of the above entities are only applicable if they have a Population Equivalent greater than two hundred (200).

This facility currently requires a chief operator with an (\underline{A}) Certification Level. Please see **Appendix - Classification Worksheet**. Modifications made to the wastewater treatment facility may cause the classification to be modified.

Operator's Name:	Bob D. Hutchinson
Certification Number:	6539
Certification Level:	А

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 publicly 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 publicly owned treatment works and privately owned facilities regulated by the Public Service Commission has a Population Equivalent greater than two hundred (200).

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

✓ As per [10 CSR 20-9.010(4))], the facility is required to conduct operational monitoring. These operational monitoring reports are to be submitted to the Department along with the MSOP discharge monitoring reports.

• The facility is a mechanical plant and is required to conduct operational control monitoring as follows:

Operational Monitoring Parameter	Frequency
Precipitation	Daily (M-F)
Flow – Influent or Effluent	Daily (M-F)
pH – Influent	Daily (M-F)
Temperature (Aeration basin)	Daily (M-F)
TSS – Influent	Weekly
TSS – Mixed Liquor	Weekly
Settleability – Mixed Liquor	Daily (M-F)
Dissolved Oxygen – Mixed Liquor	Daily (M-F)
Dissolved Oxygen – Aerobic Digester	Daily (M-F)
Total Residual Chlorine	Daily (M-F)

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)
Muddy Creek	Р	557	AQL (WWH), WBC-B, SCR, HHP, IRR, IWW	10280102-1103	0

*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 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 cool-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

RECEIVING STREAM(S) LOW-FLOW VALUES:

	LOW-FLOW VALUES (CFS)				
RECEIVING STREAM	1Q10	7Q10	30Q10		
Muddy Creek	0.1	0.1	1.0		

MIXING CONSIDERATIONS TABLE:

MIXING ZONE (CFS) [10 CSR 20-7.031(5)(A)4.B.(II)(a)]			ZONE OF INITIAL DILUTION (CFS) [10 CSR 20-7.031(5)(A)4.B.(II)(b)]		
1Q10	7Q10	30Q10	1Q10	7Q10	30Q10
0.025	0.025	0.25	0.0025	0.0025	N/A

RECEIVING STREAM MONITORING REQUIREMENTS:

Permitted Feature SM1. (Upstream)

Facilities with a design flow greater than or equal to one million gallons per day are required to sample their effluent monthly for Total Phosphorus and Total Kjeldahl Nitrogen, Nitrite + Nitrate and ammonia per 10 CSR 20-7.015(9)(D)8.B. Upstream monitoring for these parameters is necessary to determine background concentrations in order to complete calculations related to nutrient loading to the receiving stream.

Permitted Feature SM2. (Downstream)

Downstream sampling for Total Hardness is included as the permit includes metals that the toxicity of the metals are hardness dependent.

Receiving Water Body's Water Quality

Currently, the Department has not conducted a stream survey for this waterbody. 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.

✓ The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(40)] & [10 CSR 20-7.031(1)(O)], 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(1)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- Limitations in this operating permit for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.
 - 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.
 - <u>Zinc, Total Recoverable</u>. Effluent limitations were re-calculated for Zinc based on new information derived from discharge monitoring reports, using the appropriate hardness from the data collected downstream of the discharge, and on the current Missouri Water Quality Standards for Zinc. The newly established limitations are still protective of water quality.

- 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 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

 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(2)(C)], ... An applicant may utilize a lower preference continuing authority by submitting, as part of the application, when a higher level authority is available, must submit information to the Department for review and approval, provided it 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.

✓ Permittee is authorized to land apply biosolids in accordance with Standard Conditions III.

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.

✓ The facility is currently under enforcement action. The Department executed a Settlement Agreement with the City of Trenton on September 13, 2016 to address improvements necessary for the City to comply with final effluent limitations of E. Coli and bypasses of wastewater that is routed through the retention basins and discharged through the previous permitted Outfalls #002 and #003 without meeting secondary treatment prior to being discharged. The Department approved Trenton's Bypass Elimination Plan on March 20, 2018 which allows for the blending of water from the lagoons with the treated water from the secondary treatment system prior to disinfection. Outfalls #002 and #003 are no longer authorized to discharge as it is a Bypass.

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 optional and 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>. Each facility must make a request. If a single entity owns or operates more than one facility, 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.

✓ The permittee/facility is currently using the eDMR data reporting system.

NUMERIC LAKE NUTRIENT CRITERIA

✓ This facility does not discharge into a lake watershed where numeric lake nutrient criteria are applicable.

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
- ✓ At this time, the pretreatment program is "inactive."
 - In a letter received May 21, 2018, the City of Trenton requested that the State of Missouri place the city's pretreatment program in an inactive status because the only significant industrial user (ConAgra) is going out of business on May 31, 2018. Nestle Company purchased the facility but production will be much lower than ConAgra's production. Nestle's estimated hydraulic and organic loading to the waste water treatment plant will be less than half of ConAgra's loading over the last three years. An industrial waste survey over the last three years showed no new industries. The city has not experienced a pass through or interference to the wastewater treatment plant over the past three years. The pretreatment program was inactivated on July 1, 2018.

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.

✓ An RPA was conducted on appropriate parameters. Please see APPENDIX – RPA RESULTS. The facility shows reasonable potential for Ammonia as N, Chloride, Total Recoverable Copper, Total Recoverable Lead, and Total Recoverable Zinc. Ammonia effluent limits from the previous operating permit were retained, as the facility has a continuing schedule of compliance.

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.

✓ 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(12)] 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 permittees to develop and implement a program for maintenance and repair of the collection system. 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), 10 CSR 20-7.031(11), and 10 CSR 20-7.015(9), 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 that may result in site-specific criteria or alternative effluent limits. 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.

✓ The time given for effluent limitations of this permit listed under Interim Effluent Limitation and Final Effluent Limitations were established in accordance with [10 CSR 20-7.031(11)]. The facility has been given a schedule of compliance to meet final effluent limits for ammonia, chloride, copper, and lead. The four year schedule of compliances allows the facility time to evaluation operations and options available to meet final limits. The facility has already had 3 years to work toward ammonia compliance.

The following suggested milestones can be used by the permittee as a timeline toward compliance with new permit requirements. Once the permit holder's engineer has completed facility design with actual costs associated with permit compliance, it may be necessary for the permit holder to request additional time within the schedule of compliance. The Department is committed to review all requests for additional time in the schedule of compliance where adequate justification is provided.

Suggested Milestones during the 2 Year Schedule of Compliance

Year	Milestone(s)
1	Evalaluate operations, possibly identify funding source, hire an engineer, apply for a construction permit if applicable.
2	Construction or other means to meet final ammonia, chloride, and metals limits
3	Construction or other means to meet final ammonia, chloride, and metals limits
4	Complete construction or other changes to meet final ammonia, chloride, and metals limits

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 <u>Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators</u>, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in June 2015], 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.

✓ 10 CSR 20-6.200 and 40 CFR 122.26(b)(14)(ix) 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>http://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.

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.

✓ 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(86)], 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.

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

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

Where	C = downstream concentration	Ce = effluent concentration
	Cs = upstream concentration	Qe = effluent flow
	Os = upstream flow	

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.

WHOLE EFFLUENT TOXICITY (WET) TEST:

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

Under the federal Clean Water Act (CWA) §101(a)(3), requiring WET testing is reasonably appropriate for site-specific Missouri State Operating Permits for discharges to waters of the state issued under the National Pollutant Discharge Elimination System (NPDES). WET testing is also required by 40 CFR 122.44(d)(1). WET testing ensures that the provisions in the 10 CSR 20-6.010(8)(A) and the Water Quality Standards 10 CSR 20-7.031(4)(D),(F),(G),(J)2.A & B are being met. Under [10 CSR 20-6.010(8)(B)], 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.
- \checkmark The permittee is required to conduct WET test for this facility.

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.

- \checkmark Bypasses occur or have occurred at this facility.
 - Outfalls #002 and #003are no longer authorized to discharge as it is a Bypass. The Department approved Trenton's Bypass Elimination Plan on March 20, 2018 which allows for the blending of water from the lagoons with the treated water from the secondary treatment system prior to disinfection.

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

✓ This facility discharges to a stream with an EPA approved TMDL. The Muddy Creek TMDL was approved by EPA on October 20, 2010 for unknown pollutants. Load allocations for total nitrogen, total phosphorus, and total suspended solids were established in the TMDL. The TMDL did not establish wasteload allocations for point sources. <u>https://dnr.mo.gov/env/wpp/tmdl/docs/0557-muddy-ck-tmdl.pdf</u>

Part VI – Effluent Limits Determination

CATEGORIES 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)]



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)]

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

OUTFALL #001 - MAIN FACILITY OUTFALL

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.

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- day	monthly	Т
BOD ₅	mg/L	1		45	30	45/30	1/week	monthly	С
TSS	mg/L	1		45	30	45/30	1/week	monthly	С
Escherichia coli**	#/100mL	1, 3		1,030	206	1,030/ 206	1/week	monthly	G
Ammonia as N (Interim) (Apr 1 –Sep 30)	mg/L	2, 3	5.3		2.6	5.3/2.6	1/week	monthly	С
Ammonia as N (Interim) (Oct 1 – Mar 31)	mg/L	2, 3	10.4		3.7	10.4/3.7	1/week	monthly	С
Ammonia as N (Final) (Apr 1 –Sep 30)	mg/L	2, 3	4.9		1.4	5.3/2.6	1/week	monthly	С
Ammonia as N (Final) (Oct 1 – Mar 31)	mg/L	2, 3	10.4		2.9	10.4/3.7	1/week	monthly	С
Oil & Grease	mg/L	1, 3	15		10	15/10	1/month	monthly	G
Chlorine, Total Residual	μg/L	1, 3	< 130		< 130	***	1/month	monthly	G
Total Phosphorus	mg/L	1	*		*	*/*	1/month	monthly	С
Total Kjeldahl Nitrogen	mg/L	1	*		*	*/*	1/month	monthly	С
Nitrite + Nitrate	mg/L	1	*		*	*/*	1/month	monthly	С
Chloride	mg/L	2,3	379.8		189.3	*/*	1/month	monthly	C
Sulfate	mg/L	7	*		*	*/*	1/quarter	quarterly	G
Arsenic, Total Recoverable	μg/L	2,7	*		*	***	1/quarter	quarterly	C
Copper, Total Recoverable	μg/L	2,3	27.7		13.0	*/*	1/month	monthly	C
Iron, Total Recoverable	μg/L	2,7	*		*	***	1/quarter	quarterly	C
Lead, Total Recoverable	μg/L	2,3	14.9		5.6	*/*	1/month	monthly	C
Selenium, Total Recoverable	μg/L	2,7	*		*	***	1/quarter	quarterly	С
Zinc, Total Recoverable	μg/L	2,3	222		106.6	179.6/ 100.2	1/month	monthly	С
Acute Whole Effluent Toxicity	TUa	1, 9	*			*	1/year	annually	С
Chronic Whole Effluent Toxicity	TUc	1, 9	*			*	1/permit cycle	1/permit cycle	С

PARAMETER	Unit	Basis for Limits	Minimum	Maximum	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type
pH	SU	1	6.0	9.0	6.0-9.0	1/month	monthly	G
PARAMETER	Unit	Basis for Limits	Daily Minimum	Monthly Avg. Min	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type
Dissolved Oxygen (DO)	mg/L	3, 7	*	*	***	1/month	monthly	G
BOD ₅ Percent Removal	%	1		85	85	1/month	monthly	М
TSS Percent Removal	%	1		85	85	1/month	monthly	М

* - Monitoring requirement only.

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

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

**** - C = 24-hour composite

G = GrabT = 24-hr. total

E = 24-hr. estimate

M = Measured/calculated

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

- 5. Antidegradation Policy
- 6. Water Quality Model
 - 7. Best Professional Judgment
 - 8. TMDL or Permit in lieu of TMDL
- 9. WET Test Policy
- 10. Multiple Discharger Variance
- 11. Nutrient Criteria Implementation Plan

- OUTFALL #001 DERIVATION AND DISCUSSION OF LIMITS:
- <u>Flow</u>. 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).

✓ Operating permit retains 45 mg/L as a Weekly Average and 30 mg/L as a Monthly Average from the previous permit. Please see the CATEGORIZATION OF WATERS OF THE STATE sub-section of the <u>Effluent Limits Determination</u>.

• Total Suspended Solids (TSS).

✓ Operating permit retains 45 mg/L as a Weekly Average and 30 mg/L as a Monthly Average from the previous permit. Please see the CATEGORIZATION OF WATERS OF THE STATE sub-section of the <u>Effluent Limits Determination</u>.

Escherichia coli (E. coli).

- ✓ 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), for discharges within two miles upstream of segments or lakes with Whole Body Contact Recreation (B) designated use of the receiving stream, as per 10 CSR 20-7.015(9)(B). 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. The facility uses chlorine disinfection to meet E. Coli effluent limits.
- <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. Early Life Stages Present Total Ammonia Nitrogen criteria apply [10 CSR 20-7.031(5)(B)7.C. & Table B3]. Background total ammonia nitrogen = 0.01 mg/L.

Season	Temp (°C)	pH (SU)	Total Ammonia Nitrogen CCC (mg/L)	Total Ammonia Nitrogen CMC (mg/L)
Summer	26	7.8	1.5	12.1
Winter	6	7.8	3.1	12.1

Summer: April 1 - September 30Chronic WLA: $C_e = ((4.65 + 0.25)1.5 - (0.25 * 0.01))/4.65$	$C_e = 1.58 \text{ mg/L}$
Acute WLA: $C_e = ((4.65 + 0.0025)12.1 - (0.0025 * 0.01))/4.65$	$C_e = 12.1 \text{ mg/L}$
$\label{eq:LTA_c} \begin{split} LTA_c &= 1.58 \mbox{ mg/L } (0.688) = 1.09 \mbox{ mg/L} \\ LTA_a &= 12.1 \mbox{ mg/L } (0.220) = 2.66 \mbox{ mg/L} \\ Use \mbox{ most protective number of } LTA_c \mbox{ or } LTA_a. \end{split}$	[CV = 0.92, 99 th Percentile, 30 day avg.] [CV = 0.92, 99 th Percentile]
MDL = 1.09 mg/L (4.55) = 4.9 mg/L AML = 1.09 mg/L (1.30) = 1.4 mg/L	[CV = 0.92, 99 th Percentile] [CV = 0.92, 95 th Percentile, $n = 30$]
Winter: October 1 - March 31Chronic WLA: $C_e = ((4.65 + 0.25)3.1 - (0.25 * 0.01))/4.65$	$C_e = 3.27 \text{ mg/L}$
Acute WLA: $C_e = ((4.65 + 0.0025)12.1 - (0.0025 * 0.01))/4.65$	$C_e = 12.1 \text{ mg/L}$
$LTA_{c} = 3.1 \text{ mg/L} (0.680) = 2.22 \text{ mg/L}$ $LTA_{a} = 12.1 \text{ mg/L} (0.213) = 2.58 \text{ mg/L}$	[CV = 0.95, 99 th Percentile, 30 day avg.] [CV = 0.95, 99 th Percentile]
Use most protective number of LTA _c or LTA _a .	

AML = 2.22 mg/L (1.19) = 2.9 mg/L

$$[CV = 0.95, 95^{th} Percentile, n = 30]$$

- <u>Oil & Grease</u>. Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.
- Total Residual Chlorine (TRC). Warm-water Protection of Aquatic Life CCC = 10 µg/L, CMC = 19 µg/L [10 CSR 20-7.031, Table A]. Background TRC = 0.0 µg/L.

Chronic WLA:	$C_e = ((4.65 + 0.025)10 - (0.025 * 0.0))/4.65$	$C_e = 10.05 \ \mu g/L$
Acute WLA:	$C_e = ((4.65 + 0.0025)19 - (0.0025 * 0.0))/4.65$	$C_{e} = 19.01 \ \mu g/L$
$LTA_c = 10 (0.527)$ $LTA_a = 19 (0.321)$		$[CV = 0.6, 99^{th} Percentile]$ $[CV = 0.6, 99^{th} Percentile]$
MDL = 5.3 (3.11) AML = 5.3 (1.55)	10	$\label{eq:cv} \begin{split} & [CV=0.6,99^{th}Percentile] \\ & [CV=0.6,95^{th}Percentile,n=4] \end{split}$

The Water Quality Based Effluent Limit for Total Residual Chlorine was calculated to be $17 \mu g/L$ (daily maximum limit) and $8 \mu g/L$ (monthly average limit). These limits are below the minimum quantification level (ML) of the most common and practical EPA approved CLTRC methods. The Department has determined the current acceptable ML for total residual chlorine to be $130 \mu g/L$ when using the DPD Colorimetric Method #4500 – CL G. from Standard Methods for the Examination of Waters and Wastewater. 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 $130 \mu g/L$ will be considered violations of the permit and values less than the minimum quantification level of $130 \mu g/L$ will be considered to be in compliance with the permit limitation.

- <u>Total Phosphorus and Total Nitrogen (Speciated)</u>. Effluent monitoring for Total Phosphorus, Total Kjeldahl Nitrogen, and Nitrite + Nitrate are required per 10 CSR 20-7.015(9)(D)8.
- <u>pH</u>. 6.0-9.0 SU. pH limitations [10 CSR 20-7.015] are protective of the water quality standard [10 CSR 20-7.031(5)(E)], due to the assimilative capacity of the receiving stream.
- <u>Dissolved Oxygen</u>. This facility utilizes dechlorination chemicals in order to reduce the amount of total residual chlorine that is discharged in the effluent. Dechlorination chemicals are known to exhibit an oxygen demand on the effluent and if not properly managed the effects on the effluent DO concentrations can be significant. Currently, there is no monitoring data related to the dissolved oxygen concentration in the discharge or to the condition of the receiving stream's dissolved oxygen. Therefore reasonable potential to cause or contribute to an excursion of either the general or specific criteria may exist based upon the permittee's application for discharge. Monitoring only requirements have been included in this permit in order to determine if a future effluent limitation is necessary to protect water quality.
- <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 BOD₅ and 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 BOD₅ and TSS for Publicly Owned Treatment Works (POTWs)/municipals. This facility is required to meet 85% removal efficiency for TSS.

<u>Metals</u>

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. Ecoregion water hardness for Central Irregular Plains of **200 mg/L** is used in the calculation-below. This value represents the 50th percentile (median) for all watersheds in-stream hardness values through the Ecoregion.

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	CONVERS	SION FACTORS
IVIETAL	Acute	CHRONIC
Copper	0.960	0.960
Lead	0.685	0.685
Zinc	0.978	0.986

Conversion factors for Cu, Pb, and Zn are hardness dependent. Values calculated using equation found in Section 1.3 of EPA 823-B-96-007 and hardness = 206.5 mg/L.

- <u>Arsenic, Total Recoverable</u>. Monitoring only requirements have been included in this permit. The parameter was present in the expanded effluent monitoring completed as part of the renewal application. Additional monitoring is being required to determine if there is reasonable potential to exceed the Water Quality Standard. This determination will be reassessed at the time of renewal.
- <u>Copper, Total Recoverable</u> Protection of Aquatic Life Acute Criteria = $25.8 \mu g/L$, Chronic Criteria = $16.19 \mu g/L$. The hardness value of <u>206.5mg/L</u> represents the 50th percentile (median) for Muddy Creek (P)

Acute AQL: $e^{(0.9422 * ln206.5 - 1.700300) * (0.960) = 26.605 \mu g/L}$ [at hardness 206.5] Chronic AQL: $e^{(0.78545 * ln206.5 - 1.702) * (0.960) = 16.642 \mu g/L}$ [at hardness 206.5] TR Conversion: AQL/Translator = 26.605 / 0.96 = 27.713 [at hardness 206.5] TR Conversion: AQL/Translator = 16.642 / 0.96 = 17.335 [at hardness 206.5] Acute WLA: Ce = ((4.642 cfsDF + 0.0025 cfsZID) * 27.713 - (0.003 cfsZID * 0 background)) / 4.642 cfsDF = 27.728 Chronic WLA: Ce = ((4.642 cfsDF + 0.025 cfsMZ) * 17.335 - (0.025 cfsMZ * 0 background)) / 4.642 cfsDF = 17.429 LTAa: WLAa * LTAa multiplier = 27.728 * 0.287 = 7.97 [CV: 0.682, 99th %ile] LTAc: WLAc * LTAc multiplier = 17.429 * 0.488 = 8.512 [CV: 0.682, 99th %ile] use most protective LTA: 7.97 Daily Maximum: MDL = LTA * MDL multiplier = 7.97 * 3.479 = 27.7 μ g/L [CV: 0.682, 99th %ile] Monthly Average: AML = LTA * AML multiplier = 7.97 * 1.634 = 13.0 μ g/L [CV: 0.682, 95th %ile, n=4]

- <u>Iron, Total Recoverable</u>. Monitoring only requirements have been included in this permit. The parameter was present in the expanded effluent monitoring completed as part of the renewal application. Additional monitoring is being required to determine if there is reasonable potential to exceed the Water Quality Standard. This determination will be reassessed at the time of renewal.
- <u>Lead, Total Recoverable</u> Protection of Aquatic Life Acute Criteria = 136 µg/L, Chronic Criteria = 5.3 µg/L. The hardness value of <u>206.5 mg/L</u> represents the 50th percentile (median) for Muddy Creek (P)

Acute AQL: $e^{(1.273 * ln206.5 - 1.460448) * (1.46203 - ln206.5 * 0.145712) = 140.778 \mu g/L}$ [at hardness 206.5] Chronic AQL: $e^{(1.273 * ln206.5 - 4.704797) * (1.46203 - ln206.5 * 0.145712) = 5.489 \mu g/L}$ [at hardness 206.5] TR Conversion: AQL/Translator = 140.778 / 0.685 = 205.413 [at hardness 206.5] TR Conversion: AQL/Translator = 5.489 / 0.685 = 8.01 [at hardness 206.5] Acute WLA: Ce = ((4.642 cfsDF + 0.0025 cfsZID) * 205.413 - (0.003 cfsZID * 0 background)) / 4.642 cfsDF = 205.524 Chronic WLA: Ce = ((4.642 cfsDF + 0.025 cfsMZ) * 8.01 - (0.025 cfsMZ * 0 background)) / 4.642 cfsDF = 8.053 LTAa: WLAa * LTAa multiplier = 205.524 * 0.177 = 36.405 [CV: 1.173, 99th %ile] LTAc: WLAc * LTAc multiplier = 8.053 * 0.327 = 2.636 [CV: 1.173, 99th %ile] use most protective LTA: 2.636 Daily Maximum: MDL = LTA * MDL multiplier = 2.636 * 5.645 = 14.9 µg/L [CV: 1.173, 95th %ile] Monthly Average: AML = LTA * AML multiplier = 2.636 * 2.11 = 5.6 µg/L [CV: 1.173, 95th %ile, n=4]

- <u>Selenium, Total Recoverable</u>. Monitoring only requirements have been included in this permit. The parameter was present in the expanded effluent monitoring completed as part of the renewal application. Additional monitoring is being required to determine if there is reasonable potential to exceed the Water Quality Standard. This determination will be reassessed at the time of renewal.
- <u>Zinc, Total Recoverable</u> Protection of Aquatic Life Acute Criteria = 211 µg/L, Chronic Criteria = 211 µg/L. The hardness value of <u>206.5 mg/L</u> represents the 50th percentile (median) for Muddy Creek (P)

Acute AQL: $e^{(0.8473 * ln206.5 + 0.884) * 0.98 = 217.057 \mu g/L}$ [at hardness 206.5] Chronic AQL: $e^{(0.8473 * ln206.5 + 0.884) * 0.98 = 217.057 \mu g/L}$ [at hardness 206.5] TR Conversion: AQL/Translator = 217.057 / 0.978 = 221.94 [at hardness 206.5] TR Conversion: AQL/Translator = 217.057 / 0.986 = 220.139 [at hardness 206.5] Acute WLA: Ce = ((4.642 cfsDF + 0.0025 cfsZID) * 221.94 - (0.003 cfsZID * 0 background)) / 4.642 cfsDF = 222.059 Chronic WLA: Ce = ((4.642 cfsDF + 0.025 cfsMZ) * 220.139 - (0.025 cfsMZ * 0 background)) / 4.642 cfsDF = 221.325 LTAa: WLAa * LTAa multiplier = 222.059 * 0.3 = 66.588 [CV: 0.65, 99th %ile] LTAc: WLAc * LTAc multiplier = 221.325 * 0.503 = 111.377 [CV: 0.65, 99th %ile] use most protective LTA: 66.588 Daily Maximum: MDL = LTA * MDL multiplier = 66.588 * 3.335 = 222.1 μ g/L [CV: 0.65, 99th %ile] Monthly Average: AML = LTA * AML multiplier = 66.588 * 1.602 = 106.6 μ g/L [CV: 0.65, 95th %ile, n=4]

Whole Effluent Toxicity

- <u>Acute Whole Effluent Toxicity</u>. Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.
- <u>Chronic Whole Effluent Toxicity</u>. Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.
- <u>Sampling Frequency Justification</u>: Sampling and Reporting Frequency was retained from previous permi for BOD, TSS, and Ammonia as N. Sampling frequency was increased for chloride, total recoverable copper, total recoverable lead, and total recoverable zinc due to the reasonable potential to exceed water quality standards. Sampling frequency increased for total phosphorus, TKN, and nitrate+nitrite per 10 CSR 20-7.015(9)(D)8. Weekly sampling is required for *E. coli*, per 10 CSR 20-7.015(9)(D)7.A.

<u>WET Test Sampling Frequency Justification</u>. 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

✓ <u>No less than **ONCE/YEAR**</u>:

- Facility is designated as a Major facility or has a design flow ≥ 1.0 MGD.
- Facility incorporates a pretreatment program.
- Facility continuously or routinely exceeds their design flow.
- Facility exceeds its design population equivalent (PE) for BOD₅ whether or not its design flow is being exceeded.
- Facility has Water Quality-based effluent limitations for toxic substances (other than NH₃).

Chronic Whole Effluent Toxicity

- No less than ONCE/PERMIT CYCLE:
 - POTW facilities with a design flow of greater than 1.0 million gallons per day, but less than 10 million gallons per day, shall conduct and submit to the Department a chronic WET test no less than once per five years.

Sampling Type Justification: As per 10 CSR 20-7.015, samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, *E. coli*, TRC, Oil & Grease, and Dissolved Oxygen, in accordance with recommended analytical methods. For further information on sampling and testing methods please review 10 CSR 20-7.015(9)(D) 2.

PERMITTED FEATURE INF – INFLUENT MONITORING

The monitoring requirements established in the below Monitoring Requirements 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 the monitoring requirements listed in this table.

INFLUENT MONITORING TABLE:

PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthly Average	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type ****
BOD ₅	mg/L	1			*	***	1/month	monthly	С
TSS	mg/L	1			*	***	1/month	monthly	С
Ammonia as N	mg/L	1	*		*	TN	1/month	monthly	С
Total Phosphorus	mg/L	1	*		*		1/month	monthly	С
Total Kjeldahl Nitrogen	mg/L	1	*		*	TN	1/month	monthly	С
Nitrite + Nitrate	mg/L	1	*		*	TN	1/month	monthly	С
* - Monitoring requirement only. **** - C = Composite									

* - Monitoring requirement only.

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

Basis for Limitations Codes:

- State or Federal Regulation/Law 1.
- Water Quality Standard (includes RPA) 2
- Water Quality Based Effluent Limits 3.
- Antidegradation Review 4.
- 5. Antidegradation Policy
- Water Quality Model 6.
- Best Professional Judgment 7.
- TMDL or Permit in lieu of TMDL 8.
- G = Grab
- 9 WET Test Policy
- 10 Multiple Discharger Variance
- 11. Nutrient Criteria Implementation Plan

Influent Parameters

- Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS). An influent sample is required to determine the removal efficiency. 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 BOD₅ and TSS for Publicly Owned Treatment Works (POTWs)/municipals.
- Total Phosphorus, Total Kjeldahl Nitrogen, Nitrite + Nitrate, and Ammonia. Influent monitoring for Total Phosphorus, Total • Kjeldahl Nitrogen, Nitrite + Nitrate, and Ammonia required per 10 CSR 20-7.015(9)(D)8.

Sampling Frequency Justification: The sampling and reporting frequencies for Total Phosphorus and Total Kjeldahl Nitrogen, Nitrite + Nitrate, and Ammonia parameters were established to match the required sampling frequency of these parameters in the effluent, per [10 CSR 20-7.015(9)(D)8.]. The sampling and reporting frequencies for influent BOD₅ and TSS have been established to match the required sampling frequency of these parameters in the effluent.

Sampling Type Justification: Sample types for influent parameters were established to match the required sampling type of these parameters in the effluent. Samples should be analyzed as soon as possible after collection and/or properly preserved according to method requirements.

PERMITTED FEATURE SM1 – INSTREAM MONITORING (UPSTREAM)

The monitoring requirements established in the below Monitoring Requirements 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 the monitoring requirements listed in this table.

MONITORING REQUIREMENTS TABLE:

PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthl y Averag e	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type ****
Ammonia as N	mg/L	7	*		*	TN monitoring	1/month	monthly	G
Total Phosphorus	mg/L	7	*		*		1/month	monthly	G
Total Kjeldahl Nitrogen	mg/L	7	*		*	TN monitoring	1/month	monthly	G
Nitrite + Nitrate	mg/L	7	*		*	TN monitoring	1/month	monthly	G
* - Monitoring requirement only.									

* - Monitoring requirement only.

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

Basis for Limitations Codes:

State or Federal Regulation/Law 1.

- Water Quality Standard (includes RPA) 2
- 3. Water Quality Based Effluent Limits
- 4. Antidegradation Review

- Antidegradation Policy 5.
- Water Quality Model 6 7.
- Best Professional Judgment 8.
 - TMDL or Permit in lieu of TMDL
- 9. WET Test Policy
- 10. Multiple Discharger Variance
- 11. Nutrient Criteria Implementation Plan

PERMITTED FEATURE SM1 - DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:

Total Phosphorus, Total Kjeldahl Nitrogen, Nitrite + Nitrate, and Ammonia. Facilities with a design flow greater than or • equal to one million gallons per day are required to sample their effluent monthly for Total Phosphorus and Total Kjeldahl Nitrogen, Nitrite + Nitrate and Ammonia per 10 CSR 20-7.015(9)(D)8. Upstream monitoring for these parameters is necessary to determine background stream concentrations in order to complete calculations that determine instream nutrient loading.

Sampling Frequency Justification: The sampling and reporting frequency for Total Phosphorus and Total Nitrogen (speciated) parameters has been established to match the required sampling frequency of these parameters in the effluent.

Sampling Type Justification: For the purposes of instream data collection, and as the upstream water quality should be consistent over a 24 hour period, grab samples are sufficient. Samples should be analyzed as soon as possible after collection and/or properly preserved according to method requirements.

PERMITTED FEATURE SM2 – INSTREAM MONITORING (DOWNSTREAM)

The monitoring requirements established in the below Monitoring Requirements 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 the monitoring requirements listed in this table.

MONITORING REQUIREMENTS TABLE:

	PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthly Average	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type ****
T	Total Hardness	mg/L	1, 3	*		*	***	1/month	monthly	G
_	* - Monitoring requirement only.						**** - G	= Grab		

Monitoring requirement only.

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

Basis for Limitations Codes: 1. State or Federal Regulation/Law

5 Antidegradation Policy

Water Quality Standard (includes RPA) 2.

3. Water Quality Based Effluent Limits

Antidegradation Review 4

- Water Quality Model 6.
- 7. Best Professional Judgment
- TMDL or Permit in lieu of TMDL 8
- 9 WET Test Policy
- 10. Multiple Discharger Variance
- 11. Nutrient Criteria Implementation Plan

PERMITTED FEATURE SM2 – DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:

• <u>Total Hardness</u>. Monitoring only requirement as the metals parameters contained in the permit are hardness based. This data will be used in the next permit renewal.

<u>Sampling Frequency Justification</u>: The sampling and reporting frequency for Total Hardness has been established to match the required sampling frequency of the metals parameters in the effluent.

<u>Sampling Type Justification</u>: For the purposes of instream data collection, and as the upstream water quality should be consistent over a 24 hour period, grab samples are sufficient. Samples should be analyzed as soon as possible after collection and/or properly preserved according to method requirements.

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 reasonable potential to cause, or contribute to an excursion above a 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 February 27, 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 effluent limitations that are more stringent than treatment technology based effluent limits established in this permit 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) <u>Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses</u>. Please see (A) above as justification is the same.
- (C) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses. 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>Waters shall provide for the attainment and maintenance of water quality standards downstream including waters of another state</u>. Please see (D) above as justification is the same.
- (F) <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.
- (G) There shall be no acute toxicity to livestock or wildlife watering. Please see (D) above as justification is the same.
- (H) <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.
- (I) 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.

✓ The Department is required to determine "findings of affordability" because the permit applies to a combined or separate sanitary sewer system for a publicly-owned treatment works.

Cost Analysis for Compliance - The Department has made a reasonable search for empirical data indicating the permit is affordable. The search consisted of a review of Department records that might contain economic data on the community, a review of information provided by the applicant as part of the application, and public comments received in response to public notices of this draft permit. If the empirical cost data was used by the permit writer, this data may consist of median household income, any other ongoing projects that the Department has knowledge, and other demographic financial information that the community provided as contemplated by Section 644. 145.3.

The following table summarizes the results of the cost analysis. See **Appendix – Cost Analysis for Compliance** for detailed information.

Summary Table. Cost Analysis for Compliance Summary for the City of Trenton

New Permit Requirements								
Sampling for Total Residual Chlorine, Dissolved Oxygen, and more frequent monitoring of Chloride, Copper, Lead, Zinc, Total Phosphorus and Total Nitrogen								
Estimated Annual Cost	Annual Median Household Income (MHI)	Estimated Monthly User Rate	User Rate as a Percent of MHI					
\$6,948	\$37,484	\$2.59	0.08%					

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.

WATER QUALITY STANDARD REVISION:

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

✓ This operating permit contains a permit requirement for Zinc, Total Recoverable which water quality criteria has been modified by twenty-five percent or more since the issuance of the previous permit. The change and approval of 304(a) criteria, specifically hardness criteria which impacts zinc by the EPA is environmentally necessary to ensure the criteria are reflective of the most current science available while protecting the water quality standards of the receiving stream without placing needless and overly burdensome requirements on regulated entities.

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 2^{nd} Quarter of calendar year 2024.

PUBLIC NOTICE:

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

- ✓ The Public Notice period for this operating permit was from November 15, 2019 to December 16, 2019. Responses to the Public Notice of this operating permit did warrant the modification of effluent limits and/or the terms and conditions of this permit.
 - The only comment received was from Mr. Hutchinson, with the City of Trenton by phone call on December 9, 2019. He noticed that the in-stream monitoring condition was missing and that the special condition on page 2 of the permit was incorrect. I emailed him the condition for his review on December 2, 2019 and told him it would be incorporated into the permit before issuance.

DATE OF FACT SHEET: OCTOBER 18, 2019

COMPLETED BY: LEASUE MEYERS, EI MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM ENGINEERING SECTION **leasue.meyers@dnr.mo.gov**

Appendices

APPENDIX - CLASSIFICATION WORKSHEET:

APPENDIX - CLASSIFICATION WORKSHEET:		
Item	Points Possible	Points Assigned
Maximum Population Equivalent (P.E.) served , peak day	1 pt./10,000 PE or major fraction thereof. (Max 10 pts.)	6
Design Flow (avg. day) or peak month's flow (avg. day) whichever is larger	1 pt. / MGD or major fraction thereof. (Max 10 pts.)	3
Effluent Discharge		
Missouri or Mississippi River	0	
All other stream discharges except to losing streams and stream reaches supporting whole body contact recreation	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
Direct reuse or recycle of effluent	6	
Land Application/Irriga	tion	
Drip Irrigation	3	
Land application/irrigation	5	
Overland flow	4	
Variation in Raw Wastes (higher	st level only)	
Variations do not exceed those normally or typically expected	0	
Reoccurring deviations or excessive variations of 100 to 200 percent in strength and/or flow	2	
Reoccurring deviations or excessive variations of more than 200 percent in strength and/or flow	4	
Department-approved pretreatment program	6	6
Preliminary Treatment	ıt	
STEP systems (operated by the permittee)	3	
Screening and/or comminution	3	3
Grit removal	3	3
Plant pumping of main flow	3	3
Flow equalization	5	3
Primary Treatment		
Primary clarifiers	5	
Chemical addition (except chlorine, enzymes)	4	
Secondary Treatmen	t	
Trickling filter and other fixed film media with or without secondary clarifiers	10	
Activated sludge (including aeration, oxidation ditches, sequencing batch reactors, membrane bioreactors, and contact stabilization)	15	15
Stabilization ponds without aeration	5	
Aerated lagoon	8	
Advanced Lagoon Treatment – Aerobic cells, anaerobic cells, covers, or fixed film	10	
Biological, physical, or chemical	12	
Carbon regeneration	4	
Total from page ONE (1)		45

APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
Solids Handling		
Sludge Holding	5	5
Anaerobic digestion	10	
Aerobic digestion	6	6
Evaporative sludge drying	2	
Mechanical dewatering	8	8
Solids reduction (incineration, wet oxidation)	12	
Land application	6	6
Disinfection		
Chlorination or comparable	5	5
On-site generation of disinfectant (except UV light)	5	
Dechlorination	2	2
UV light	4	
Required Laboratory Control Performed by Plant	Personnel (highest level only)	
Lab work done outside the plant	0	
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	
Total from page TWO (2)		39
Total from page ONE (1)		45
Grand Total		84

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

APPENDIX – RPA RESULTS:

Parameter	CMC*	RWC Acute*	CCC*	RWC Chronic*	n**	Range max/min	CV***	MF	RP Yes/No
Total Ammonia as Nitrogen (Summer) mg/L	12.1	34.64	1.5	32.89	32	8.37/0.031	1.70	4.14	Yes
Total Ammonia as Nitrogen (Winter) mg/L	12.1	24.62	3.1	23.38	31	5.57/0.0063	1.80	4.42	Yes
Chloride (mg/L)	860	460.79	230	458.57	5	110/31.4	0.60	4.19	Yes
Copper, Total Recoverable (µg/L)	27.71	47.19	17.34	46.96	10	15/2	0.682	3.15	Yes
Lead. Total Recoverable (µg/L)	205.41	84.17	8.01	83.76	10	15/1	1.173	5.61	Yes
Zinc, Total Recoverable (µg/L)	221.94	469.77	220.14	467.51	24	206/26	0.650	2.28	Yes

N/A - Not Applicable

* - Units are (μ g/L) unless otherwise noted.

** - If the number of samples is 10 or greater, then the CV value must be used in the WQBEL for the applicable constituent. If the number of samples is < 10, then the default CV value must be used in the WQBEL for the applicable constituent.

*** - Coefficient of Variation (CV) is calculated by dividing the Standard Deviation of the sample set by the Mean of the same sample set.

RWC – Receiving Water Concentration. It is the concentration of a toxicant or the parameter toxicity in the receiving water after mixing (if applicable).

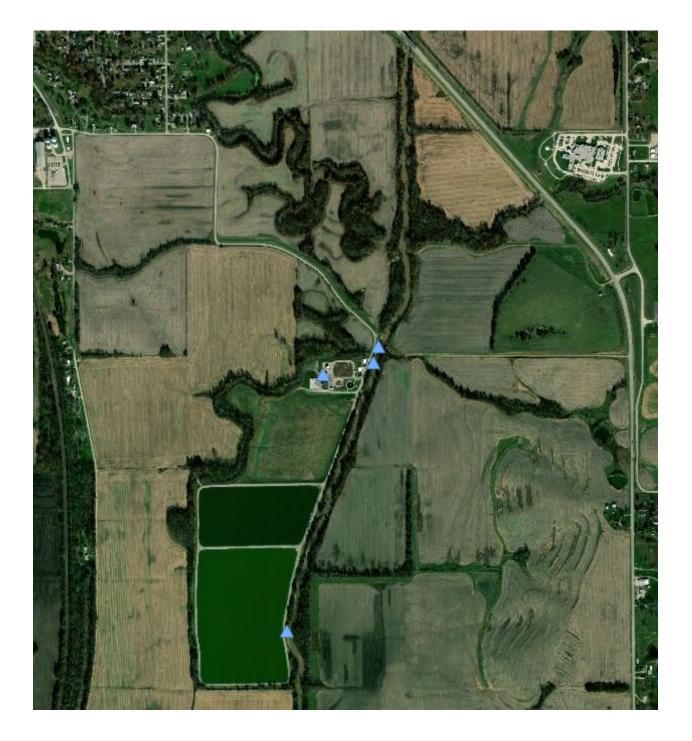
n-Is the number of samples.

MF - Multiplying Factor. 99% Confidence Level and 99% Probability Basis.

RP – Reasonable Potential. It is where an effluent is projected or calculated to cause an excursion above a water quality standard based on a number of factors including, as a minimum, the four factors listed in 40 CFR 122.44(d)(1)(ii).

Reasonable Potential Analysis is conducted as per (TSD, EPA/505/2-90-001, Section 3.3.2). A more detailed version including calculations of this RPA is available upon request.

APPENDIX – FACILITY MAP



APPENDIX – COST ANALYSIS FOR COMPLIANCE:

Missouri Department of Natural Resources Water Protection Program Cost Analysis for Compliance (In accordance with RSMo 644.145)

Trenton Municipal Utilities, Permit Renewal Trenton Municipal Utilities Missouri State Operating Permit #MO-0039748

Section 644.145 RSMo requires the Department of Natural Resources (Department) to make a "finding of affordability" when "issuing permits under" or "enforcing provisions of" state or federal clean water laws "pertaining to any portion of a combined or separate sanitary sewer system for publicly-owned treatment works." This cost analysis does not dictate how the permittee will comply with new permit requirements.

New Permit Requirements

The permit requires compliance with new monitoring requirements for Total Kjeldahl Nitrogen, Nitrate + Nitrite, Total Phosphorus, Chloride, TRC, Dissolved Oxygen, Total Recoverable Arsenic, Total Recoverable Copper, Total Recoverable Iron, Total Recoverable Lead, Total Recoverable Selenium, and Total Recoverable Zinc.

Connections

The number of connections was reported by the permittee on the permit renewal application.

Connection Type	Number
Residential	2336
Commercial	343
Industrial	1
Total	2680

Data Collection for this Analysis

This cost analysis is based on data available to the Department as provided by the permittee and data obtained from readily available sources. For the most accurate analysis, it is essential that the permittee provides the Department with current information about the City's financial and socioeconomic situation. The financial questionnaire available to permittees on the Department's website (<u>http://dnr.mo.gov/forms/780-2511-f.pdf</u>) is a required attachment to the permit renewal application. If the financial questionnaire is not submitted with the renewal application, the Department sends a request to complete the form with the welcome correspondence. Though the Department has made attempts to gather financial information from the City of Trenton; no information has been provided. The Department has relied heavily on readily available data to complete this analysis. If certain data was not provided by the permittee to the Department and the data is not obtainable through readily available sources, this analysis will state that the information is "unknown".

Eight Criteria of 644.145 RSMo

The Department must consider the eight (8) criteria presented in subsection 644.145 RSMo to evaluate the cost associated with new permit requirements.

(1) A community's financial capability and ability to raise or secure necessary funding;

Criterion 1 Table. Current Financial Information for the City of Trenton		
Current Monthly User Rates per 5,000 gallons*	\$56.68	
Median Household Income (MHI) ¹	\$37,484	
Current Annual Operating Costs (excludes depreciation) \$		

*User Rates were obtained from the 2018 Missouri Public Utility Alliance Water and Wastewater Rate Survey.

(2) Affordability of pollution control options for the individuals or households at or below the median household income level of the community;

Criterion 2A Table. Estimated Cost Breakdown of New Permit Requirements			
New Requirement	Frequency	Estimated Cost	Estimated Annual Cost
Total Phosphorus – Influent, Effluent, Instream	Monthly	\$24	\$864
Total Kjeldahl Nitrogen - Influent, Effluent, Instream	Monthly	\$33	\$1188
Nitrate + Nitrite - Influent, Effluent, Instream	Monthly	\$40	\$1440
Ammonia – Influent, Instream	Monthly	\$20	\$480
Total Recoverable Arsenic	Quarterly	\$20	\$80
Total Recoverable Copper	Monthly	\$20	\$240
Total Recoverable Iron	Quarterly	\$20	\$80
Total Recoverable Lead	Monthly	\$20	\$240
Total Recoverable Selenium	Quarterly	\$20	\$80
Total Recoverable Zinc	Monthly	\$20	\$240
Total metal concentration analysis	Monthly	\$13	\$156
Chloride	Monthly	\$20	\$240
Total Residual Chlorine	Weekly during recreational	\$33	\$1188
Dissolved Oxygen	Weekly	\$12	\$432
Total Estimated Annual Cost of New Permit Requirements\$6,948			

The following tables outline the estimated costs of the new permit requirements:

Crit	Criterion 2B Table. Estimated Costs for New Permit Requirements		
(1)	Estimated Annual Cost	\$6,948	
(2)	Estimated Monthly User Cost for New Requirements ²	\$2.59	
	Estimated Monthly User Cost for New Requirements as a Percent of MHI ³	0.08%	
(3)	Total Monthly User Cost*	\$59.27	
	Total Monthly User Cost as a Percent of MHI ⁴	1.90%	

* Current User Rate + Estimated Monthly Costs of New Sampling Requirements

Due to the minimal cost associated with new permit requirements, the Department anticipates an extremely low to no rate increase will be necessary, which could impact individuals or households of this community.

(3) An evaluation of the overall costs and environmental benefits of the control technologies;

This analysis is being conducted based on new requirements in the permit, which will not require the addition of new control technologies at the facility. However, the new sampling requirements are being established in order to provide data regarding the health of the receiving stream's aquatic life and to ensure that the existing permit limits are providing adequate protection of aquatic life. Improved wastewater provides benefits such as avoided health costs due to water-related illness, enhanced environmental ecosystem quality, and improved natural resources. The preservation of natural resources has been proven to increase the economic value and sustainability of the surrounding communities. Maintaining Missouri's water quality standards fulfills the goal of restoring and maintaining the chemical, physical, and biological integrity of the receiving stream; and, where attainable, it achieves a level of water quality that provides for the protection and propagation of fish, shellfish, wildlife, and recreation in and on the water.

(4) Inclusion of ongoing costs of operating and maintaining the existing wastewater collection and treatment system, including payments on outstanding debts for wastewater collection and treatment systems when calculating projected rates:

The community reported their outstanding debt for their current wastewater collection and treatment systems to be \$17,328,145. The community reported that each user pays \$56.68 each month, which is used toward payments on the current outstanding debt.

(5) An inclusion of ways to reduce economic impacts on distressed populations in the community, including but not limited to low and fixed income populations. This requirement includes but is not limited to:

- (a) Allowing adequate time in implementation schedules to mitigate potential adverse impacts on distressed populations resulting from the costs of the improvements and taking into consideration local community economic considerations.
- (b) Allowing for reasonable accommodations for regulated entities when inflexible standards and fines would impose a disproportionate financial hardship in light of the environmental benefits to be gained.

The following table characterizes the current overall socioeconomic condition of the community as compared to the overall socioeconomic condition of Missouri. The following information was compiled using the latest U.S. Census data.

Criterion 5 Table. Socioeconomic Data ^{1,5-9} for the City of Trenton

No.	Administrative Unit	Trenton City	Missouri State	United States
1	Population (2017)	5,915	6,075,300	321,004,416
2	Percent Change in Population (2000-2017)	-4.8%	8.6%	14.1%
3	2017 Median Household Income (in 2018 Dollars)	\$37,484	\$52,801	\$59,060
4	Percent Change in Median Household Income (2000-2017)	-3.4%	-7.7%	-6.7%
5	Median Age (2017)	35.8	38.4	37.8
6	Change in Median Age in Years (2000-2017)	-6.3	2.3	2.5
7	Unemployment Rate (2017)	1.9%	5.8%	6.6%
8	Percent of Population Below Poverty Level (2017)	22.5%	14.6%	14.6%
9	Percent of Household Received Food Stamps (2017)	17.4%	12.2%	12.6%
10	(Primary) County Where the Community Is Located	Grundy County		

(6) An assessment of other community investments and operating costs relating to environmental improvements and public health protection;

The City of Trenton signed a <u>Settlement Agreement</u> with the Department on September 13, 2016, to address inflow and infiltration issues with the sewer collection system and for the facility to meet disinfection requirements.

(7) An assessment of factors set forth in the United States Environmental Protection Agency's guidance, including but not limited to the "Combined Sewer Overflow Guidance for Financial Capability Assessment and Schedule Development" that may ease the cost burdens of implementing wet weather control plans, including but not limited to small system considerations, the attainability of water quality standards, and the development of wet weather standards;

The new requirements associated with this permit will not impose a financial burden on the community, nor will they require the City of Trenton to seek funding from an outside source.

(8) An assessment of any other relevant local community economic conditions.

The community did not report any other relevant local economic conditions.

The Department contracted with Wichita State University to complete an assessment tool that would allow for predictions on rural Missouri community populations and future sustainability. The purpose of the study is to use a statistical modeling analysis in order to determine factors associated with each rural Missouri community that would predict the future population changes that could occur in each community. A stepwise regression model was applied to 19 factors which were determined as predictors of rural population change in Missouri. The model established a hierarchy of the predicting factors which allowed the model to place a weighted value on each of the factors. A total of 745 rural towns and villages in Missouri received a weighted value for each of the predicting factors. The weighted values for each town / village were then added together to determine an overall decision score. The overall decision score. The categorical groups were developed from the range of overall scores across all rural towns and villages within Missouri.

Based on the assessment tool, the City of Trenton has been determined to be a category 1 community. This means that the City of Trenton could potentially face more challenging socioeconomic circumstances over time and may have significant declines in population in the future. The Department has determined an adequate schedule of compliance that will alleviate the potential financial burdens that the City of Trenton may face due to the necessary upgrades required to meet the new permit requirements. If this community experiences a decline in population, which results in the inability to secure the necessary funding for an upgrade to meet the new requirements within this permit, a modification to the schedule of compliance may be necessary. The community may contact the Department and send an application for a modification to the schedule of compliance with justification for the time necessary to comply with this permit.

Conclusion and Finding

As a result of new regulations, the Department is proposing modifications to the current operating permit that may require the permittee to increase monitoring. The Department has considered the eight (8) criteria presented in subsection 644.145 RSMo to evaluate the cost associated with the new permit requirements.

This analysis examined whether the new sampling requirements affect the ability of an individual customer or household to pay a utility bill without undue hardship or unreasonable sacrifice in the essential lifestyle or spending patterns of the individual or household. After reviewing the above criteria, the Department finds that the new sampling requirements may result in a low burden with regard to the community's overall financial capability and a low financial impact for most individual customers/households; therefore, the new permit requirements are affordable.

References

 (A) 2017 MHI in 2017 Dollar: United States Census Bureau. United States Census Bureau. 2013-2017 American Community Survey 5-Year Estimates, Table B19013: Median Household Income in the Past 12 Months (in 2017 Inflation-Adjusted Dollars). http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_B19013&prodType=table.

(B) 2000 MHI in 1999 Dollar: (1) For United States, United States Census Bureau (2003) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-2-1 Part 1. United States Summary, Table 5. Work Status and Income in 1999: 2000, Washington, DC. <u>https://www.census.gov/prod/cen2000/phc-2-1-pt1.pdf</u>. (2) For Missouri State, United States Census Bureau (2003) 2000 Census of Population and Housing, Summary Social, Economic, and Housing, Summary Social, Economic, and Housing Characteristics, PHC-2-1.pt1.pdf. (2) For Missouri State, United States Census Bureau (2003) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-2-27, Missouri, Table 10. Work Status and Income in 1999: 2000, Washington, DC. <u>https://www.census.gov/prod/cen2000/phc-2-1701.pdf</u>.

(C) 2018 CPI, 2017 CPI and 1999 CPI: U.S. Department of Labor Bureau of Labor Statistics (2018) Consumer Price Index - All Urban Consumers, U.S. City Average. All Items. 1982-84=100. http://data.bls.gov/timeseries/CUUR0000SA0?data_tool=Xgtable.

(D) 2017 MHI in 2018 Dollar = 2017 MHI in 2017 Dollar x 2018 CPI /2017 CPI; 2000 MHI in 2018 Dollar = 2000 MHI in 1999 Dollar x 2018 CPI /1999 CPI.

(E) Percent Change in Median Household Income (2000-2017) = (2017 MHI in 2018 Dollar - 2000 MHI in 2018 Dollar) / (2000 MHI in 2018 Dollar).

- 2. (\$6,948/2680)/12 = \$2.59 (Estimated Monthly User Cost for New Requirements)
- 3. (\$2.59/(\$37,484/12))100% = 0.08% (New Sampling Only)
- 4. (\$59.27/(\$37,484 /12))100% = 1.90% (Total User Cost)
- 5. (A) Total Population in 2017: United States Census Bureau. 2013-2017 American Community Survey 5-Year Estimates, Table B01003: Total Population Universe: Total Population.

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_B01003&prodType=table</u>. (B) Total Population in 2000: (1) For United States, United States Census Bureau (2002) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-1-1 Part 1. United States Summary, Table 1. Age and Sex: 2000, Washington, DC. <u>https://www.census.gov/prod/cen2000/phc-1-1-pt1.pdf</u>. (2) For Missouri State, United States Census Bureau (2002) 2000 Census of Population and Housing, Summary Population and Housing Characteristics, PHC-1-27, Missouri, Table 2. Age and Sex: 2000, Washington, DC. <u>http://www.census.gov/prod/cen2000/phc-2-27-pt1.pdf</u>.

(C) Percent Change in Population (2000-2017) = (Total Population in 2017 - Total Population in 2000) / (Total Population in 2000).

6. (A) Median Age in 2017: United States Census Bureau. 2013-2017 American Community Survey 5-Year Estimates, Table B01002: Median Age by Sex - Universe: Total population.

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS 17 5YR B01002&prodType=table. (B) Median Age in 2000: (1) For United States, United States Census Bureau (2002) 2000 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, PHC-1-1 Part 1. United States Summary, Table 1. Age and Sex: 2000, Washington, DC., Page 2. https://www.census.gov/prod/cen2000/phc-1-1-pt1.pdf. (2) For Missouri State, United States Census Bureau (2002) 2000 Census of Population and Housing, Summary Population and Housing Characteristics, PHC-1-27, Missouri, Table 2. Age and Sex: 2000, Washington, DC., Pages 64-92. http://www.census.gov/prod/cen2000/phc-2-27-pt1.pdf.

- (C) Change in Median Age in Years (2000-2017) = (Median Age in 2017 Median Age in 2000).
- United States Census Bureau. 2013-2017 American Community Survey 5-Year Estimates, B23025: Employment Status for the Population 16 Years and Over - Universe: Population 16 years and Over.

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_B23025&prodType=table.

- 8. United States Census Bureau. 2013-2017 American Community Survey 5-Year Estimates, Table S1701: Poverty Status in the Past 12 Months. http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_S1701&prodType=table.
- 9. United States Census Bureau. 2013-2017 American Community Survey 5-Year Estimates, Table B22003: Receipt of Food Stamps/SNAP in the Past 12 Months by Poverty Status in the Past 12 Months for Households Universe: Households.

http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ACS_17_5YR_B22003&prodType=table



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.
 - 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 – BIOSOLIDS AND SLUDGE FROM DOMESTIC TREATMENT FACILITIES

SECTION A - GENERAL REQUIREMENTS

- PART III Standard Conditions pertain to biosolids and sludge requirements under the Missouri Clean Water Law and regulations for domestic and municipal wastewater and also incorporates federal sludge disposal requirements under 40 CFR Part 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR Part 503 for domestic biosolids and sludge.
- 2. PART III Standard Conditions apply only to biosolids and sludge generated at domestic wastewater treatment facilities, including public owned treatment works (POTW) and privately owned facilities.
- 3. Biosolids and Sludge Use and Disposal Practices:
 - a. The permittee is authorized to operate the biosolids and sludge generating, treatment, storage, use, and disposal facilities listed in the facility description of this permit.
 - b. The permittee shall not exceed the design sludge/biosolids volume listed in the facility description and shall not use biosolids or sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. For facilities operating under general operating permits that incorporate Standard Conditions PART III, the facility is authorized to operate the biosolids and sludge generating, treatment, storage, use and disposal facilities identified in the original operating permit application, subsequent renewal applications or subsequent written approval by the department.
- 4. Biosolids or Sludge Received from other Facilities:
 - a. Permittees may accept domestic wastewater biosolids or sludge from other facilities as long as the permittee's design sludge capacity is not exceeded and the treatment facility performance is not impaired.
 - b. The permittee shall obtain a signed statement from the biosolids or sludge generator or hauler that certifies the type and source of the sludge
- 5. Nothing in this permit precludes the initiation of legal action under local laws, except to the extent local laws are preempted by state law.
- 6. This permit does not preclude the enforcement of other applicable environmental regulations such as odor emissions under the Missouri Air Pollution Control Lawand regulations.
- This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable biosolids or sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act or under Chapter 644 RSMo.
- 8. In addition to Standard Conditions PARTIII, the Department may include biosolids and sludge limitations in the special conditions portion or other sections of a site specific permit.
- 9. Exceptions to Standard Conditions PARTIII may be authorized on a case-by-case basis by the Department, as follows:
 - a. The Department may modify a site-specific permit following permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR § 124.10, and 40 CFR § 501.15(a)(2)(ix)(E).
 - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR Part 503.

SECTION B - DEFINITIONS

- 1. Best Management Practices are practices to prevent or reduce the pollution of waters of the state and include agronomic loading rates (nitrogen based), soil conservation practices, spill prevention and maintenance procedures 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, feed or fiber. The facility includes any structures necessary to store the biosolids untilsoil, 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 Part 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 (PSRP) in accordance with 40 CFR Part 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. Feed crops are crops produced primarily for consumption by animals.
- 8. Fiber crops are crops such as flax and cotton.
- 9. Food crops are crops consumed by humans which include, but is not limted to, fruits, vegetables and tobacco.
- 10. Industrial wastewater means any wastewater, also known as process wastewater, not defined as domestic wastewater. Per 40 CFR Part 122.2, process wastewater 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. Land application of industrial wastewater, residuals or sludge is not authorized by Standard Conditions PART III.
- 11. Mechanical treatment plants are wastewater treatment facilities that use mechanical devices to treat wastewater, including, sand filters, extended aeration, activated sludge, contact stabilization, trickling filters, rotating biological contact systems, and other similar facilities. It does not include wastewater treatment lagoons or constructed wetlands for wastewater treatment.
- 12. Plant Available Nitrogen (PAN) is nitrogen that will be available to plants during the growing seasons after biosolids application.
- 13. 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.
- 14. 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), sewage sludge incinerator ash, or grit/screenings generated during preliminary treatment of domestic sewage.
- 15. Sludge lagoon is part of a mechanical wastewater treatment facility. A sludge lagoon is an earthen or concrete lined 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.
- 16. Septage is the sludge pumped from residential septic tanks, cesspools, portable toilets, Type III marine sanitation devices, or similar treatment works such as sludge holding structures from residential wastewater treatment facilities with design populations of less than 150 people. Septage does not include grease removed from grease traps at a restaurant or material removed from septic tanks and other similar treatment works that have received industrial wastewater. The standard for biosolids from septage is different from other sludges. See Section H for more information.

SECTION C-MECHANICAL WASTEWATER TREATMENT FACILITIES

- 1. Biosolids or sludge shall be routinely removed from wastewater treatment facilities and handled according to the permit facility description and the requirements of Standard Conditions PART III or in accordance with Section A.3.c., above.
- The permittee shall operate storage and treatment facilities, as defined by Section 644.016(23), RSMo, so that there is no biosolids or sludge discharged to waters of the state. Agricultural storm water discharges are exempt under the provisions of Section 644.059, RSMo.
- 3. Mechanical treatment plants shall have separate biosolids or sludge storage compartments in accordance with 10 CSR 20, Chapter 8. Failure to remove biosolids or sludge from these storage compartments on the required design schedule is a violation of this permit.

SECTION D – BIOSOLIDS OR SLUDGE DISPOSED AT OTHER TREATMENT FACILITY OR BY CONTRACT HAULER

- 1. Permittees that use contract haulers, under the authority of their operating permit, to dispose of biosolids or sludge, are responsible for compliance with all the terms of this permit. Contract haulers that assume the responsibility of the final disposal of biosolids or sludge, including biosolids land application, must obtain a Missouri State Operating Permit unless the hauler transports the biosolids or sludge to another permitted treatment facility.
- 2. Testing of biosolids or sludge, other than total solids content, is not required if biosolids or sludge are hauled to a permitted wastewater treatment facility, unless it is required by the accepting facility.

SECTION E- INCINERATION OF SLUDGE

- Please be aware that sludge incineration facilities may be subject to the requirements of 40 CFR Part 503 Subpart E, Missouri Air Conservation Commission regulations under 10 CSR 10, and solid waste management regulations under 10 CSR 80, as applicable.
- 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, mass of sludge incinerated and mass of ash generated. Permittee shall also provide the name of the ash disposal facility and permit number if applicable.

$Section\,F-Surface\,Disposal\,Sites\,\text{and}\,Biosolids\,\text{and}\,Sludge\,Lagoons$

- Please be aware that surface disposal sites of biosolids or sludge from wastewater treatment facilities may be subject to other laws including the requirements in 40 CFR Part 503 Subpart C, Missouri Air Conservation Commission regulations under 10 CSR 10, and solid waste management regulations under 10 CSR 80, as applicable.
- 2. Biosolids or 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 biosolids or sludge storage lagoons as storage facilities, accumulated biosolids or 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 biosolids or sludge removed will be dependent on biosolids or sludge generation and accumulation in the facility. Enough biosolids or 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 biosolids or sludge on the bottom of the lagoon, upon prior approval of the Department; or
 - b. Permittee shall close the lagoon in accordance with Section I.

SECTION G - LAND APPLICATION OF BIOSOLIDS

- 1. The permittee shall not land apply biosolids unless land application is authorized in the facility description, the special conditions of the issued NPDES permit, or in accordance with Section A.3.c., above.
- 2. This permit only authorizes "Class A" or "Class B" biosolids derived from domestic wastewater 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.
- 3. Class A Biosolids Requirements: Biosolids shall meet Class A requirements for application to public contact sites, residential lawns, home gardens or sold and/or given away in a bag or other container.
- 4. Class B biosolids that are land applied to agricultural and public contact sites shall comply with the following restrictions:
 - a. Food crops that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after application of biosolids.
 - b. Food crops below the surface of the land shall not be harvested for 20 months after application of biosolids when the biosolids remain on the land surface for four months or longer prior to incorporation into the soil.
 - c. Food crops below the surface of the land shall not be harvested for 38 months after application of biosolids when the biosolids remain on the land surface for less than four months prior to incorporation into the soil.
 - d. Animal grazing shall not be allowed for 30 days after application of biosolids.
 - e. Food crops, feed crops, and fiber crops shall not be harvested for 30 days after application of biosolids.
 - f. Turf shall not be harvested for one year after application of biosolids if used for lawns or high public contact sites in close proximity to populated areas such as city parks or golf courses.
 - g. After Class B biosolids have been land applied to public contact sites with high potential for public exposure, as defined in 40 CFR § 503.31, such as city parks or golf courses, access must be restricted for 12 months.
 - h. After Class B biosolids have been land applied public contact sites with low potential for public exposure as defined in 40 CFR § 503.31, such as a rural land application or reclamation sites, access must be restricted for 30 days.
- 5. Pollutant limits
 - a. Biosolids shall be monitored to determine the quality for regulated pollutants listed in Table 1, below. Limits for any pollutants not listed below may be established in the permit.
 - b. The number of samples taken is directly related to the amount of biosolids or sludge produced by the facility (See Section J, below). 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 achieve pollutant concentration below those identified in Table 1, below.
 - c. Table 1 gives the ceiling concentration for biosolids. Biosolids which exceed the concentrations in Table 1 may not be land applied.

TABLE 1

Biosolids ceiling concentration		
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	

d. Table 2 below gives the low metal concentration for biosolids. Because of its higher quality, biosolids with pollutant concentrations below those listed in Table 2 can safely be applied to agricultural land, forest, public contact sites, lawns, home gardens or be given away without further analysis. Biosolids containing metals in concentrations above the low metals concentrations but below the ceiling concentration limits may be land applied but shall not exceed the annual loading rates in Table 3 and the cumulative loading rates in Table 4. The permittee is required to track polluntant loading onto application sites for parameters that have exceeded the low metal concentration limits.

TABLE 2		
Biosolids Low Metal Concentration		
Pollutant	Milligrams per kilogram dry weight	
Arsenic	41	
Cadmium	39	
Copper	1,500	
Lead	300	
Mercury	17	
Nickel	420	
Selenium	100	
Zinc	2,800	

e. Annual pollutant loading rate.

Ta	bl	e	3	

Biosolids Annual Loading Rate		
Pollutant	Kg/ha (lbs./ac) per year	
Arsenic	2.0 (1.79)	
Cadmium	1.9 (1.70)	
Copper	75 (66.94)	
Lead	15 (13.39)	
Mercury	0.85 (0.76)	
Nickel	21 (18.74)	
Selenium	5.0 (4.46)	
Zinc	140 (124.96)	

f. Cumulative pollutant loading rates.

с.

Ta	ble	4	

Biosolids Cumulative Pollutant Loading Rate		
Pollutant	Kg/ha (lbs./ac)	
Arsenic	41 (37)	
Cadmium	39 (35)	
Copper	1500 (1339)	
Lead	300 (268)	
Mercury	17 (15)	
Nickel	420 (375)	
Selenium	100 (89)	
Zinc	2800 (2499)	

- 6. Best Management Practices. The permittee shall use the following best management practices during land application activities to prevent the discharge of biosolids to waters of the state.
 - a. Biosolids shall not be applied to the land if it is likely to adversely affect a threatened or endangered species listed under § 4 of the Endangered Species Act or its designated critical habitat.
 - b. Apply biosolids only at the agronomic rate of nitrogen needed (see 5.c. of this section).
 - The applicator must document the Plant Available Nitrogen (PAN) loadings, available nitrogen in the soil, and crop

nitrogen removal when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kgTN; 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:

(Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹). ¹ Volatilization factor is 0.7 for surface application and 1 for subsurface application. Alternative volitalization factors and mineralization rates can be utilized on a case-by-case basis.

- ii. Crop nutrient production/removal to be based on crop specific nitrogen needs and realistic yield goals. NO TE: There are a number of reference documents on the Missouri Department of Natural Resources website that are informative to implement best management practices in the proper management of biosolids, including crop specific nitrogen needs, realistic yields on a county by county basis and other supporting references.
- iii. Biosolids that are applied at agronomic rates shall not cause the annual pollutant loading rates identified in Table 3 to be exceeded.
- d. Buffer zones are as follows:
 - i. 300 feet of a water supply well, sinkhole, water supply reservoir or water supply intake in a stream;
 - ii. 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 outstandingstate resource waters as listed in the Water Quality Standards, 10 CSR 20-7.031;
 - iii. 150 feet of dwellings or public use areas;
 - iv. 100 feet (35 feet if biosolids application is down-gradient or the buffer zone is entirely vegetated) of lake, pond, wetlands or gaining streams (perennial or intermittent);
 - v. 50 feet of a property line. Buffer distances from property lines may be waived with written permission from neighboring property owner.
 - vi. For the application of dry, cake or liquid biosolids that are subsurface injected, buffer zones identified in 5.d.i. through 5.d.iii above, may be reduced to 100 feet. The buffer zone may be reduced to 35 feet if the buffer zone is permanently vegetated. Subsurface injection does not include methods or technology reflective of combination surface/shallow soil incorporation.
- e. Slope limitation for application sites are as follows:
 - i. For slopes less than or equal to 6 percent, 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;
 - iii. 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.
 - iv. Dry, cake or liquid biosolids that are subsurface injected, may be applied on slopes not to exceed 20
 percent. Subsurface injection does not include the use of methods or technology reflective of combination
 surface/shallow soil incorporation.
- f. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- g. Biosolids may be land applied to sites with soil that are snow covered, frozen, or saturated with liquid when site restrictions or other controls are provided to prevent pollutants from being discharged to waters of the state during snowmelt or stormwater runoff. During inclement weather or unfavorable soil conditions use the following management practices:
 - i. A maximum field slope of 6% and a minimum 300 feet grass buffer between the application site and waters of the state. A 35 feet grass buffer may be utilized for the application of dry, cake or liquid biosolids that are subsurface injected. Subsurface injection does not include the use of mthods or technology refletive of combination surface/shallow soil incorporation;
 - ii. A maximum field slope of 2% and 100 feet grass buffer between the application site and waters of the state. A 35 feet grass buffer may be used for the application of dry, cake or liquid biosolids that are subsurface injected. Subsurface injection does not included the use of methods or technology refletive of combination surface/shallow soil incorporation;
 - iii. Other best management practices approved by the Department.

SECTION H – SEPTAGE

- 1. Haulers that land apply septage must obtain a state permit. An operating permit is not required for septage haulers who transport septage to another permitted treatment facility for disposal.
- 2. Do not apply more than 30,000 gallons of septage per acre per year or the volume otherwise stipulated in the operating permit.
- 3. Septic 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 mechanical treatment facilities.
- 4. Septage must comply with Class B biosolids regarding pathogen and vector attraction reduction requirements before it may be applied to crops, pastures or timberland. To meet required pathogen and vector reduction requirements, mix 50 pounds of hydrated lime for every 1,000 gallons of septage and maintain a septage pH of at least 12 pH standard units for 30 minutes or more prior to application.
- 5. 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.
- 6. As residential septage contains relatively low levels of metals, the testing of metals in septage is not required.

SECTION I- CLOSURE REQUIREMENTS

- 1. This section applies to all wastewater facilities (mechanical and lagoons) and sludge or biosolids storage and treatment facilities. 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 sludges and/or biosolids. 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. Biosolids or sludge 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. Biosolids and sludge shall meet the monitoring and land application limits for agricultural rates as referenced in Section G, above.
 - 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. Alternative, site-specific application rates may be included in the closure plan for department consideration.
 - i. PAN can be determined as follows:
 - (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹).
 - 1 Volatilization factor is 0.7 for surface application and 1 for subsurface application. Alternative volitalization factors and mineralization rates can be utilized on a case-by-case basis
- 4. Domestic wastewater treatment lagoons with a design treatment capacity less than or equal to 150 persons, are "similar treatment works" under the definition of septage. Therefore the sludge within the lagoons may be treated as septage during closure activities. See Section B, above. 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. Biosolids or sludge left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, and unless otherwise approved, 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. Alternative biosolids or sludge and soil mixing ratios may be included in the closure plan for department consideration.
- 6. Lagoon and earthen structure 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.
- 7. When closing a mechanical wastewater plant, all biosolids or 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 storm water per 10 CSR 20-6.200. The site shall be graded and contain \geq 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.

- b. Hazardous Waste shall not be land applied or disposed during mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations pursuant to 10 CSR 25.
- c. After demolition of the mechanical plant, the site must only contain clean fill defined in Section 260.200.1(6) RSMo 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, reclamation, or other beneficial use. Other solid wastes must be removed.
- 8. If biosolids or sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or I, 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 Part 503, Subpart C.

SECTION J - MONITORING FREQUENCY

1. At a minimum, biosolids or sludge 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.

TABLE 5							
Biosolids or Sludge	Monitoring Frequency (See Notes 1, and 2)						
produced and disposed (Dry Tons per Year)	Metals, Pathogens and Vectors, Total Phosphorus, Total Potassium	Nitrogen TKN, Nitrogen PAN ¹	Priority Pollutants ²				
319 or less	1/year	1 per month	1/year				
320 to 1650	4/year	1 per month	1/year				
1651 to 16,500	00 6/year 1 per month		1/year				
16,501 +	12/year	1 per month	1/year				

¹Calculate 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.

² Priority pollutants (40 CFR 122.21, Appendix D, Tables II and III) are required only for permit holders that must have a pre-treatment program. Monitoring requirements may be modified and incorporated into the operating permit by the Department on a case-by-case basis.

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: Table 5 is not applicable for incineration and permit holders that landfill their sludge.

- 2. Permittees that operate wastewater treatment lagoons, peak flow equalization basins, combined sewer overflow basins or biosolids or sludge lagoons that are cleaned out once a year or less, may choose to sample only when the biosolids or sludge is removed or the lagoon is closed. Test one composite sample for each 319 dry tons of biosolids or sludge removed from the lagoon during the reporting year or during lagoon closure. 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.
- 4. Biosolids and sludge monitoring shall be conducted in accordance with federal regulation 40 CFR § 503.8, Sampling and analysis.

SECTION K – 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 Standard Conditions PART III and any additional items in the Special Conditions section of this permit. This shall include dates when the biosolids or sludge facility is checked for proper operation, records of maintenance and repairs and other relevant information.
- 2. Reporting period
 - a. By February 19th of each year, applicable facilities shall submit an annual report for the previous calendar year period for all mechanical wastewater treatment facilities, sludge lagoons, and biosolids or sludge disposal facilities.
 - b. Permittees with wastewater treatment lagoons shall submit the above annual report only when biosolids or sludge are removed from the lagoon during the report period or when the lagoon is closed.
- 3. Report Form. The annual report shall be prepared on report forms provided by the Department or equivalent forms approved by the Department.
- 4. Reports shall be submitted as follows:

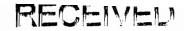
Major facilities, which are those serving 10,000 persons or more or with a design flow equal to or greater than 1 million gallons per day or that are required to have an approved pretreatment program, shall report to both the Department and EPA if the facility land applied, disposed of biosolids by surface disposal, or operated a sewage sludge incinerator. All other facilities shall maintain their biosolids or sludge records and keep them available to Department personnel upon request. State reports shall be submitted to the address listed as follows:

DNR regional or other applicable office listed in the permit (see cover letter of permit) ATTN: Sludge Coordinator Reports to EPA must be electronically submitted online via the Central Data Exchange at: https://cdx.epa.gov/ Additional information is available at: <u>https://www.epa.gov/biosolids/compliance-and-annual-reporting-guidance-about-clean-water-act-laws</u>

- 5. Annual report contents. The annual report shall include the following:
 - a. Biosolids and sludge testing performed. If testing was conducted at a greater frequency than what is required by the permit, all test results must be included in the report.
 - b. Biosolids or sludge quantity shall be reported as dry tons for the quantity produced and/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 and 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 using a 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 biosolids or sludge 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 alegal 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 and phosphorus. If no soil was tested during the year, report the last date when tested and the results.



COUNTY

Grundy

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MISSOURI DEPARTMENT OF NATURAL RESOURCES

WATER PROTECTION PROGRAM, WATER POLLUTION CONTROL BRANCH

FORM B2 – APPLICATION FOR CONSTRUCTION OR OPERATING PERMIT FOR FACILITIES WHICH RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE A DESIGN FLOW MORE THAN 100,000 GALLONS PER DAY WATER PROTECTION PROGRAM

Trenton Municipal Utilities - Wastewater Treatment Facility

PERMIT NO.

FACILITY NAME

MO-0039748

APPLICATION OVERVIEW

Form B2 has been developed in a modular format and consists of Parts A, B and C and a Supplemental Application Information (Parts D, E, F and G) packet, All applicants must complete Parts A, B and C. Some applicants must also complete parts of the Supplemental Application Information packet. The following items explain which parts of Form B2 you must complete. Submittal of an incomplete application may result in the application being returned.

BASIC APPLICATION INFORMATION

- Α. Basic Application Information for all Applicants. All applicants must complete Part A.
- Additional Application Information for all Applicants. All applicants must complete Part B. Β.
- C. Certification. All applicants must complete Part C.

SUPPLEMENTAL APPLICATION INFORMATION

- Expanded Effluent Testing Data. A treatment works that discharges effluent to surface water of the United States D. and meets one or more of the following criteria must complete Part D - Expanded Effluent Testing Data:
 - Has a design flow rate greater than or equal to 1 million gallons per day. 1.
 - 2 Is required to have or currently has a pretreatment program.
 - 3. Is otherwise required by the permitting authority to provide the information.
- Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E -Ε. Toxicity Testing Data:
 - Has a design flow rate greater than or equal to 1 million gallons per day. 1.
 - 2. Is required to have or currently has a pretreatment program.
 - Is otherwise required by the permitting authority to provide the information. 3.
- Industrial User Discharges and Resource Conservation and Recovery Act / Comprehensive Environmental F. Response, Compensation and Liability Act Wastes. A treatment works that accepts process wastewater from any significant industrial users, also known as SIUs, or receives a Resource Conservation and Recovery Act or CERCLA wastes must complete Part F - Industrial User Discharges and Resource Conservation and Recovery Act /CERCLA Wastes.

SIUs are defined as:

- All Categorical Industrial Users, or CIUs, subject to Categorical Pretreatment Standards under 40 Code of 1. Federal Regulations 403.6 and 40 Code of Federal Regulations 403.6 and 40 CFR Chapter 1, Subchapter N.
- Any other industrial user that meets one or more of the following: 2.
 - İ. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions).
 - Contributes a process waste stream that makes up five percent or more of the average dry weather ii. hydraulic or organic capacity of the treatment plant.
 - Is designated as an SIU by the control authority. iii.
- Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G -G. Combined Sewer Systems.

ALL APPLICANTS MUST COMPLETE PARTS A, B and C MO 780-1805 (09-08)

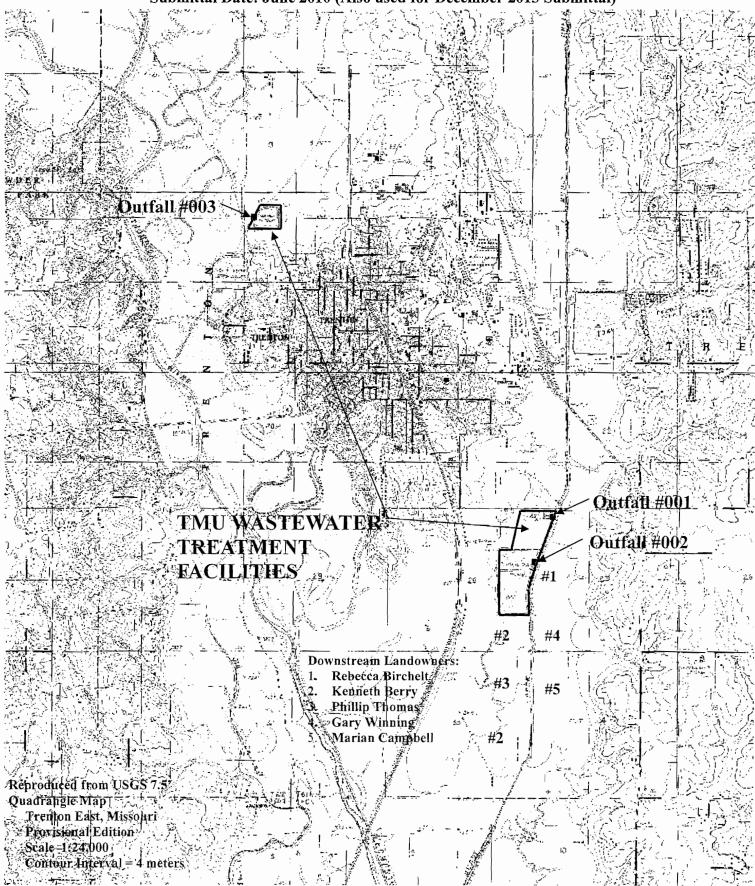
Trenton Municipal Utilities - Permit # MO-0039748 - Renewal Application - December 2013 - Page 1 of 25

	RE	CEIVED		
MISSOURI DEPARTMENT OF NATURA WATER PROTECTION PROGRAM, WA FORM B2 – APPLICATION FOR PERMIT FOR FACILITIES WHIC WASTE AND HAVE A DESIGN F		RIEV DOMESTIC		
PER DAY	AK	² 17260_	121	26/13 (08
PART A – BASIC APPLICATION INFORMATIC)N			
1. This application is for:				
An operating permit and antidegradation rev				
A construction permit following an appropriat		-	•	e.
 A construction permit, a concurrent operating A construction permit (submitted before Aug. 				
 A construction permit (submitted before Aug. An operating permit for a new or unpermitted 	-	nstruction Permit #	. ,	
 An operating permit for a new of unpermitted An operating permit renewal: Permit #MO- 0 		biration Date <u>June 30</u>		
An operating permit renewal: r entit #M0 An operating permit modification: Permit #M0		ason:		
1.1 Is this a Federal/State Funded Project?	🗌 Yes 🗹 No	00,		
1.2 Is the appropriate fee included with the appli	cation (See instructions f	or appropriate fee)?	🗹 Yes 🗌	No Not required
2. FACILITY				NUMBER WITH AREA CODE
Trenton Municipal Utilities - Wastewater Treatment Fac	cility		660-359-3	
ADDRESS (PHYSICAL)			STATE	ZIP
98 Southwest Ash Lane	Trenton			64683
2.1 LEGAL DESCRIPTION (Plant Site):		4, Sec. 27 , T 61N,		County Grundy
2.2 UTM Coordinates Easting (X): North For Universal Transverse Mercator (UTM), Zone 1	ing (1).	WWTP = approx. 15 American Datum 1983	-	434676N
3. OWNER Trenton Munucipal Utilities				
NAME	TITLE		TELEPHONE	NUMBER WITH AREA CODE
ADDRESS	City Administrato	r	660-359-2	281
PO Box 108 1100 Main Street	Trenton		MO	64683
3.1 Request review of draft permit prior to Public	Notice? Ves			
4. CONTINUING AUTHORITY: Permanent organ maintenance and modernization of the facility.	ization which will serve a	as the continuing auth	hority for the	operation,
NAME			CITY	
Trenton Municipal Utilities			Trenton	
ADDRESS PO Box 108 1100 Main Street		R (IF APPLICABLE)	STATE MO	ZIP 64683
5. OPERATOR			TELEDUALE	
NAME Bob Hutchinson	TITLE Wastewater Trea	tment Plant Supervis		NUMBER WITH AREA CODE
6. FACILITY CONTACT				
NAME	TITLE			
Bob Hutchinson 10 780-1805 (09-08)	Wastewater Trea	tment Plant Supervis	or	
	NÉ			
	NE			
	grun			

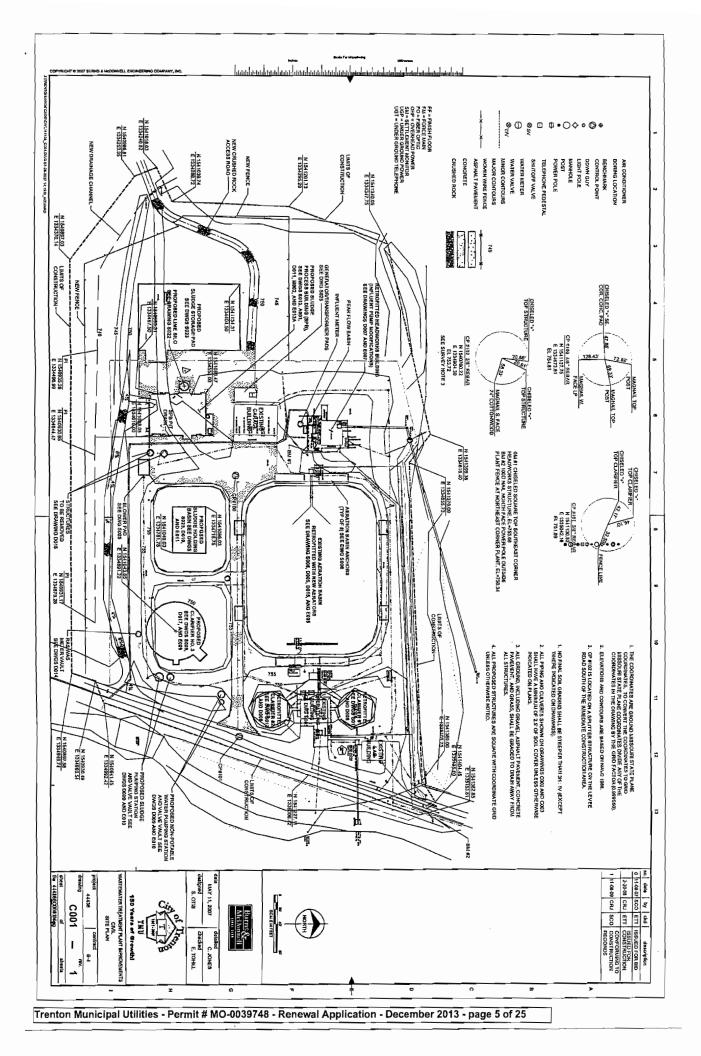
Trenton Municipal L		PERMIT NO. MO- 0039748		OUTFALL NO. #001		
	APPLICATION IN			#001		
7. ADDITIONAL 7.1 BRIEF DESCRIPT	L FACILITY INFORM					
Outfall #001 - at PC storage, sludge hold	TW - Extended aerat	ion treatment plant with ocessing, and sludge sto 02 and a single cell eartl	rage. Excess flow ho	olding basins (tv	vo earthen basins)	, sludge at WWTP
 7.2 TOPOGRAPH BEYOND FAC INFORMATIOI a. The area b. The locati c. The maio d. The actual e. Wells, spr works, an f. Any areas g. If the treat by truck, r or disposition 7.3 PROCESS FLIALSO, PROVI AND DECHLO 	IC MAP. ATTACH TO T ILITY PROPERTY BOU N. (YOU MAY SUBMIT surrounding the treatme ion of the downstream la r pipes or other structure astewater is discharged al point of discharge. rings, other surface wate d 2) listed in public reco s where the sewage sluc trnent works receives wa rail or special pipe, show ed. OW DIAGRAM OR SCH DE A WATER BALANCH RINATION). THE WAT	HIS APPLICATION A TOP NDARIES. THIS MAP MU: MORE THAN ONE MAP IF andowner(s). (See Item 10.) as through which wastewate from the treatment plant. In the bodies and drinking water rd or otherwise known to the dge produced by the treatme aste that is classified as haz or on the map where that haz EMATIC. PROVIDE A DIA E SHOWING ALL TREATM ER BALANCE MUST SHOW FLOW RATES BETWEEN	OGRAPHIC MAP OF TI ST SHOW THE OUTLIN ONE MAP DOES NOT occesses. The enters the treatment v neclude outfalls from bype wells that are: 1) within e applicant. The applicant of the reso cardous under the Reso cardous waste enters the GRAM SHOWING THE ENT UNITS, INCLUDIN N DAILY AVERAGE FL	HE AREA EXTEN NE OF THE FACI SHOW THE EN vorks and the pip ass piping, if app 1 ¼ mile of the pro- ted or disposed. urce Conservatio e treatment works FPROCESSES O IG DISINFECTIO OW RATES AT I	IDING AT LEAST ON LITY AND THE FOLL TIRE AREA.) es or other structures licable. operty boundaries of t n and Recovery Act, o s and where it is treate F THE TREATMENT N (E.G. CHLORINATI NFLUENT AND DISC	OWING through which he treatment or RCRA, ed, stored PLANT. ON HARGE
OF THE DIAG 7.4 FACILITY SIC 92-500	CODE DISCH 4952	ARGE SIC CODE:	FACILITY NAICS		DISCHARGE NAI #221320	CS CODE:
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		pr. 30 connections out		Approximately		
		NNECTED Number of co				mmoreial =
HOMES	APAI	RTMENTS	TRAILERS		THER <u>Res</u> identia	al = 2,378
	N FLOW (ALL OUTFAL	LS)	ACTUAL FLOW			
Outfall #001 = 7.0 M			Outfall #001 Averag			
	PASSING OCCUR ANY	WHERE IN THE COLLEC	FION SYSTEM OR AT	THE TREATMEN	T FACILITY?	
	N. 🗖					
Yes 🗖		(If Yes, attach an expl	anation.) The collecti	on system do	es not contain any	constructed
Yes 7.8 LENGTH OF T	HE SANITARY SEWER	COLLECTION SYSTEM IN	I MILES overflows.	The WWTP in	es not contain any cludes Outfalls #0	<u>constructed</u> 02 and #003
Yes 7.8 LENGTH OF T June 2013 data tab	HE SANITARY SEWER ulation: Gravity sewe	COLLECTION SYSTEM IN er mains = 60.222 miles	MILES overflows. Force Mains = 3.79	The WWTP in 99 miles	cludes Outfalls #0	<u>constructed</u> 02 and #003
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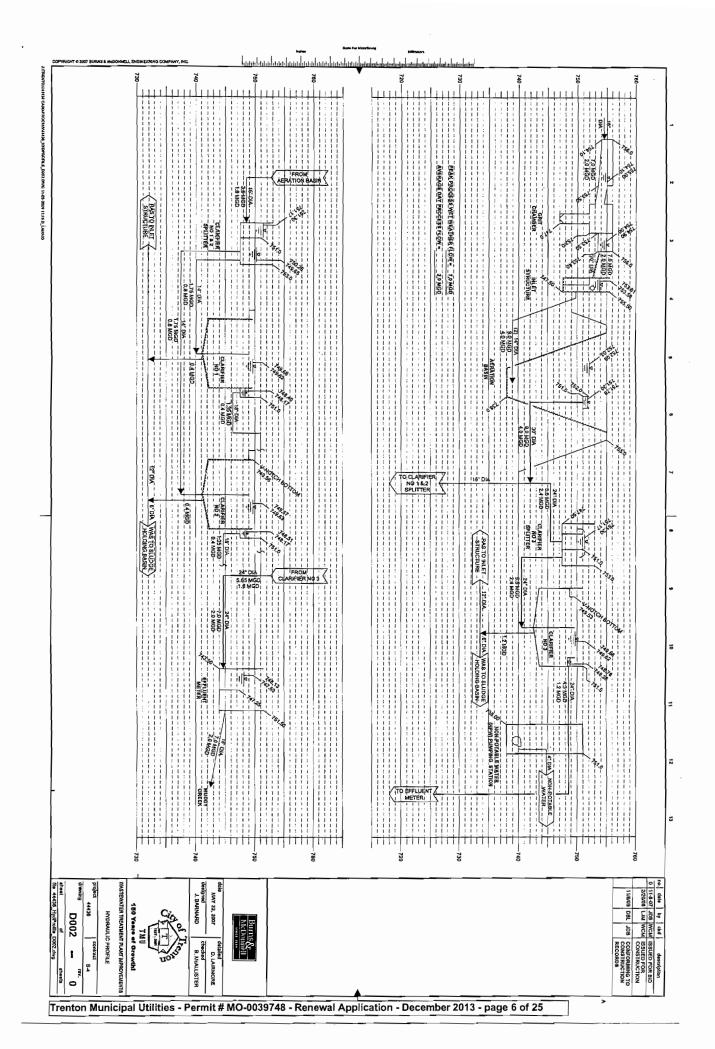
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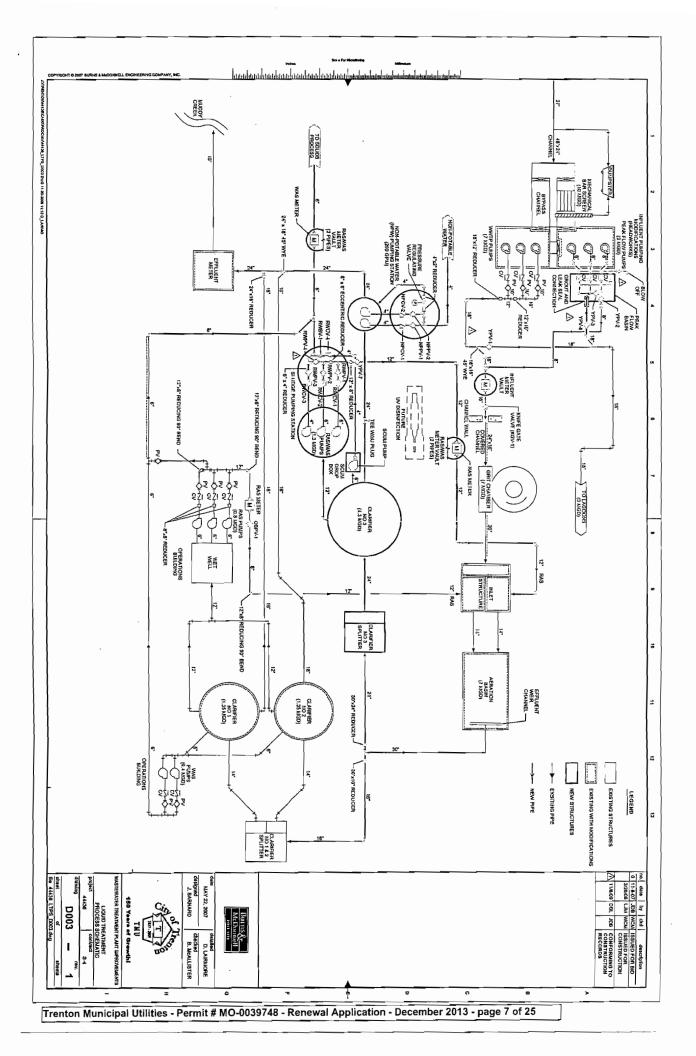
MO DNR FORM B2 Operating Permit Application Trenton Municipal Utilities Wastewater Treatment Facility (Permit No. MO-0039748) Location map Showing Treatment Facilities and Downstream Landowners Submittal Date: June 2010 (Also used for December 2013 Submittal)

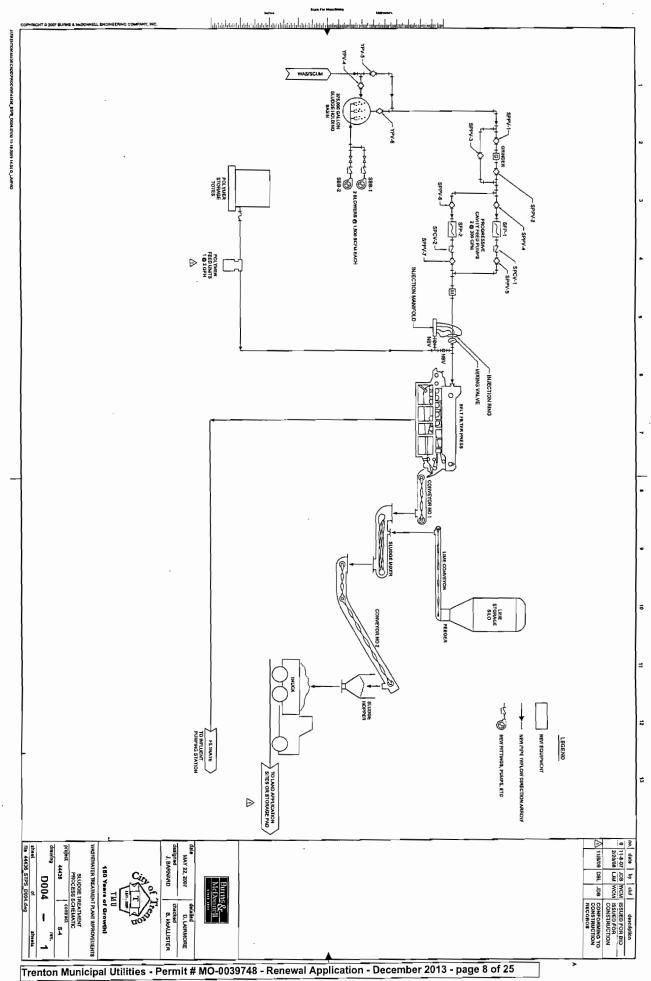


Trenton Municipal Utilities-Permit # MO-0039748-Renewal Application-December 2013-Page 4 of 25











City of Trenton Trenton Municipal Utilities 1100 Main St Trenton MO 64683 660-359-2281 fax: 660-359-2284 www.trentonmo.com

TMU Application for Renewal of Operating Permit #MO-0039748

December 2013

ADDITIONAL INFORMATION for FORM B2

PART A: Basic Application Information

7.14: List all permit violations, including effluent limit exceedances in the last five years:

- Notices of Violation and Letters of Warning
 - o NOV #NER2011082410283768 September 12, 2011
 - o Letter of Warning June 23, 2009
 - o Letter of Warning June 9, 2010
 - o Letter of Warning July 23, 2010
- Permit Exceedences January 1, 2009 through November 30, 2013

Date	Outfall	Parameter	Time frame	Limit	Result
01/06/2009	001	Ammonia	Daily	7.5	8.71
03/17/2009	002	TSS	Daily	45	98.1
03/18/2009	002	TSS	Daily	45	95.3
03/20/2009	002	TSS	Daily	45	95.8
06/16/2009	002	TSS	Daily	45	62.5
10/01/2009	001	Ammonia	Daily	5.3	5.48
10/02/2009	001	Ammonia	Daily	5.3	5.49
10/10/2009	001	Ammonia	Daily	5.3	8.19
10/11/2009	001	Ammonia	Daily	5.3	6.33
10/12/2009	001	Ammonia	Daily	5.3	13.5
10/13/2009	001	Ammonia	Daily	5.3	10.3
10/14/2009	001	Ammonia	Daily	5.3	12.2
10/15/2009	001	Ammonia	Daily	5.3	9.62
10/19/2009	001	Ammonia	Daily	5.3	9
10/20/2009	001	Ammonia	Daily	5.3	9.49
October 2009	001	Ammonia	Monthly	2.6	4.15
10/22/2009	001	TSS	Daily	45	75.8
02/15/2010	001	TSS	Daily	45	151.2
11/11/2010	001	TSS	Daily	45	45.7
08/08/2012	001	TSS	Daily	45	47.8
12/18/2012	001	TSS	Daily	45	58.8
07/31/2013	001	TSS	Daily	45	50.0
08/06/2013	001	Ammonia	Daily	5.3	6.07
08/07/2013	001	Ammonia	Daily	5.3	7.12

Trenton Municipal Utilities - Permit # MO0039748 - Renewal Application - December 2013 - Page 9 of 25

TMU Application for Renewal of Operating Permit #MO-0039748

December 2013

ADDITIONAL INFORMATION for FORM B2

PART A: Basic Application Information

7.14: List all permit violations, including effluent limit exceedances in the last five years:

(continued)

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08/08/2013	001	Ammonia	Daily	5.3	6.91
08/09/2013	001	Ammonia	Daily	5.3	8.37
08/15/2013	001	TSS	Daily	45	50.0
08/24/2013	001	TSS	Daily	45	65.9
08/25/2013	001	TSS	Daily	45	76
08/26/2013	001	TSS	Daily	45	79.2
08/27/2013	001	TSS	Daily	45	91.2
08/28/2013	001	TSS	Daily	45	114.7
August 2013	001	TSS	Monthly	30	41
09/08/2013	001	TSS	Daily	45	47.2
09/14/2013	001	TSS	Daily	45	45.8
10/06/2013	001	Ammonia	Daily	5.3	5.31
10/11/13	001	Ammonia	Daily	5.3	5.57
October 2013	001	Ammonia	Daily	2.6	3.39

- CACILITY	3						
FACILITY	on Municipal Utilities - WWTP	PERMIT NO. MO- 0039748	,		OUTFALL N #001	10.	
	T A - BASIC APPLICATION INFO						
9.	SLUDGE HANDLING, USE AND DIS						
9.1	IS THE SLUDGE A HAZARDOUS WASTE		Y 10 CSR 25?				
	Yes 🗌 No 🗹						
9.2	SLUDGE PRODUCTION, INCLUDING SL		D ROM OTHERS				
9.3	Design Dry Tons/Year 1,080 tons (same as CAPACITY OF SLUDGE HOLDING STRU				Act	ual Dry Tons/Y	ear Hauled 613 Dry Tons
	SLUDGE STORAGE PROVIDED	JUTURES					
1	Cubic Feet ^{60,000} Days of Storage	Averaç	ge Percent Solids of Slu	ldge ^{24%}] No Sludge :	Storage is Provided
	TYPE OF STORAGE Sludge sto	orage after proc	cessing				
	Holding Tank Basin	Building	Concrete Pad	Other ((Describe)		
	SLUDGE TREATMENT		Cabilizati				
	□ Anaerobic Digester □ Storage T □ Aerobic Digester □ Air or Hea		Lime Stabilizatio	n		goon her (Attach Des	rintian)
	SLUDGE USE OR DISPOSAL		L] Composing			ner (Allaun De.	
1	Land Application Contract H	Hauler 🗌 ł	Hauled to Another Treat	tment Facili	itv	🗌 Solid Wa	aste Landfill
•	Surface Disposal (Sludge Disposal Lag				,	Incinerat	
	Other (Attach Explanation Sheet)						
	PERSON RESPONSIBLE FOR HAULING	SLUDGE TO DIS	POSAL FACILITY				
NAME N/A - S	Sludge is land applied by TMU staff						
ADDRES			CITY			STATE	ZIP
						-	
CONTAC	T PERSON		TELEPHONE NUMBER WI	TH AREA COL	DE	PERMIT NO	
						MO-	
	SLUDGE USE OR DISPOSAL FACILITY						
∐Ву⊬	Applicant D By Others (Complete Belo	w)					
NAME							
	Sludge is land applied by TMU staff						
ADDRES	S		CITY			STATE	ZIP
CONTAC	TPERSON		TELEPHONE NUMBER WI	TH AREA COL		PERMIT NO	
0011	TPERSON					MO-	
9.10	DO THE SLUDGE OR BIOSOLIDS DISPO	SAL COMPLY W	ITH FEDERAL SLUDG	E REGULA	TIONS U		503?
	Yes No (Attach Expla				then.		000 :
	DOWNSTREAM LANDOWNER(S). (FIONAL SHEETS AS	NECESS	SARY.)		
NAME							
	ttached						
ADDRESS	s		CITY			STATE	ZIP
11.	DRINKING WATER SUPPLY INFOR						
	SOURCE OF YOUR DRINKING WATER S						
	PUBLIC SUPPLY (MUNICIPAL OR WATER		TER) (IF PUBLIC, PLE	ASE GIVE	NAME OF	PUBLIC SUPP	
Trento	on Municipal Utilities (PWS ID #20107					1052.5	
В.	PRIVATE WELL						
C	SURFACE WATER (LAKE, POND OR STR						
	oumps raw water out of Thompson Rive	,					
	DOES YOUR DRINKING WATER SOURC		AST 25 PEOPLE AT LE	AST 60 DA	YS PER Y	EAR (NOT NE	CESSARILY
	CONSECUTIVE DAYS)?			No 🗌			• - • - • ·
	DOES YOUR SPPLY SERVE HOUSING T				PEOPLE?	7 THIS DOES	NOT INCLUDE
1	HOUSING THAT IS OCCUPIED SEASON	ALLY?	Yes 🗹	No 🗌			
		E	ND OF PART A				

MO 780-1805 (09-08)



City of Trenton Trenton Municipal Utilities 1100 Main St Trenton MO 64683 660-359-2281 fax: 660-359-2284 www.trentonmo.com

TMU Application for Renewal of Operating Permit #MO-0039748

December 2013

ADDITIONAL INFORMATION for FORM B2

PART A: Basic Application Information

10: Downstream Landowners – See location map showing treatment facilities and downstream landowners for relative location of the sites

- Rebecca Birchelt Mistler William Mislter 4907 North Lakewood Drive St Joseph, MO 64506
- Kenneth Berry Mary Berry
 505 Coach Avenue Apt 3112 Kirkwood, MO 63122
- Phillip Thomas Benjamin Thomas 460 NW 60th Street Trenton, MO 64683
- Gary Winings Delores Winings 136 SE 15th Street Trenton, MO 64683
- Marian Campbell, Trustee 255 South Hwy 65 Trenton, MO 64683

MAKE ADDITIONAL COPIES OF THIS FORM FOR	EACH OU	TFALL)
FACILITY NAME PERMIT NO. Trenton Municipal Utilities - WWTP MO-003974	48		OUTFALL N #001	0.	
PART B - ADDITIONAL APPLICATION INFORMA	TION				•
20. INFLOW AND INFILTRATION					t
ESTIMATE THE AVERAGE NUMBER OF GALLONS PER DAY T INFILTRATION.	THAT FLOW I	NTO THE TREATMEN	NT WORKS	FROM INFLOW AND	
Gallons Per Day WWTP has received as much as	10 MGD of fi	ow in wet condition	s		
BRIEFLY EXPLAIN ANY STEPS UNDERWAY OR PLANNED TO TMU has an ongoing maintenance program	MINIMIZE IN	FLOW AND INFILTR	ATION.		
20.1 OPERATION AND MAINTENANCE PERFORMED BY	CONTRACTO	R(S)			
ARE ANY OPERATIONAL OR MAINTENANCE ASPECTS (REL TREATMENT WORKS THE RESPONSIBILITY OF A CONTRAC Yes D No D If Yes, list the name, add	TOR?			EFFLUENT QUALITY) OF THE tractor and describe the contractor's	
responsibilities. (Attach additional pages if necessary.)					
NAME					1
MAILING ADDRESS					
TELEPHONE NUMBER WITH AREA CODE					
RESPONSIBILITIES OF CONTRACTOR					
20.2 SCHEDULED IMPROVEMENTS AND SCHEDULES O IMPLEMENTATION SCHEDULE OR UNCOMPLETED TREATMENT, EFFLUENT QUALITY OR DESIGN CAP SEVERAL DIFFERENT IMPLEMENTATION SCHEDUL RESPONSES FOR EACH. (IF NONE, GO TO QUEST	PLANS FOR I PACITY OF TH LES OR IS PL/	MPROVEMENTS TH E TREATMENT WOP ANNING SEVERAL IN	AT WILL AI RKS. IF TH MPROVEMI	FFECT THE WASTEWATER E TREATMENT WORKS HAS	
A. List the outfall number that is covered by this B implementation schedule	. Indicate wh required by	ether the planned implemented implemented in the planned implemented implemented in the planned implemented imp	provements I agencies.	or implementation schedule are	
Outfall No. Outfalls #001, #002, and #003	Yes 🗹	No [Schedule	of Compliance in July 1, 2014 p	ermit
20.3 WASTEWATER DISCHARGES: COMPLETE QUESTIONS 20.4 THROUGH 20.7 ONCE EFFLUENT IS DISCHARGED. DO NOT INCLUDE INF		OUTFALL (INCLUDIN	G BYPASS	POINTS) THROUGH WHICH	
20.4 DESCRIPTION OF OUTFALL					
OUTFALL NUMBER 001					
A. LOCATION					
1/4 1/4 NW 1/4 NW Section 27 Township 61			\square W		
UTM Coordinates Easting (X): <u>27</u> Northing (Y): <u>61N</u> For Universal Transverse Mercator (UTM), Zone 15 No	N: 443 N: 443	34426, E:449620 to North American Da	atum 1983 (NAD83)	
B. Distance from Shore C. De	pth Below Surf Applicable)		D.	Average Daily Flow Rate <u>1.73</u> mgd	
π	ft				
E. Does this outfall have either an intermittent or periodic of Yes No If Yes, Provide the follow		N/A			
Number of Days Per Year Discharge Average Duration of E Occurs: N/A	ach	Average Flow Per Discharge: Mgd	L.	Months in Which Discharge Occurs: N/A	
Is Outfall Equipped with a Diffuser? Yes IN	10				1
20.5 DESCRIPTION OF RECEIVING WATER					
B. Name of Receiving Water					
Muddy Creek					
B. Name of Watershed (If Known)			rvice 14-Dig	it Watershed Code (If Known)	
Muddy Creek B. Name of State Management/River Basin (If Known)		0102170003 Geological Survey 8-	Digit Hydrol	ogic Cataloging Unit Code (If	
B. Name of State Management/River Basin (If Known) Lower Thompson River	Knov	v ⁿ⁾ 10280102	Sign Hyuton	USIO Obtaioging Onit Oode (II	
B. Critical Flow of Receiving Stream (If Applicable)			eiving Strea	m at Critical Low Flow	
Acute cfs Chronic cfs		f Applicable) mg/L of CaCO ₃			

MO 780-1805 (09-08)

FACILITY NAME Trenton Municipal L	Itilition MA		PERMIT NO. MO- 00397	10		OUTFAL	L NO.		
	PART B – ADDITIONAL APPLICATION INFORMATION (CONTINUED)								
20.6 DESCRIPTI								_	
			PROVIDED?	Check All Th	at Apply				
Primary		Secondary	Advanced		her (Describe)				
B. INDICATE 1 Design BOD₅ Remova			AL RATES (AS		,	Design SS Remo	val N/	Ά%	
Design P Removal	N/A		sign N Remova			Other		%	
C. What type o		is used for the	e effluent from	this outfall? I	f disinfection v	aries by season, p	lease describe		
Disinfection require									
If disinfection is by chl			used for this ou	utfall?	☐ Yes	No	N/A		
Does the treatment pla					Yes				
20.7 EFFLUENT TESTING DATA. ALL APPLICANTS THAT DISCHARGE TO WATERS OF THE U.S. MUST PROVIDE EFFLUENT TESTING DATA FOR THE FOLLOWING PARAMETERS. PROVIDE THE INDICATED EFFLUENT DATA FOR EACH OUTFALL THROUGH WHICH EFFLUENT IS DISCHARGED. DO NOT INCLUDE INFORMATION OF COMBINED SEWER OVERFLOWS IN THIS SECTION. ALL INFORMATION REPORTED MUST BE BASED ON DATA COLLECTED THROUGH ANALYSIS CONDUCTED USING 40 CFR PART 136 METHODS. IN ADDITION, THIS DATA MUST COMPLY WITH QA/QC REQUIREMENTS OF 40 CFR PART 136 AND OTHER APPROPRIATE QA/QC REQUIREMENTS FOR STANDARD METHODS FOR ANALYTES NOT ADDRESSED BY 40 CFR PART 136.									TION. ALL CFR PART 136 HER
OUTFALL NUMBER									
PAR	METER		MAXI	MUM DAILY	VALUE		AVERAGE DA		
			VA		UNITS	VALUE		NO. (OF SAMPLES
pH (Minimum)			6	.09	S.U.	6.80	<u>S.U.</u>		365
pH (Maximum)		_	7	.49	<u>S.U.</u>	7.31	S.U.		365
FLOW RATE			Max	= 7.0	MGD	1.73	MGD_	365	
TEMPERATURE (V					°C	1	°C		
TEMPERATURE (S					°C	17	°C		
*For pH report a mir	nimum and						_		
POLLUTAN	IT		JM DAILY AVERAG		AGE DAILY E	BE DAILY DISCHARGE		ANALYTICAL	
FOLLOTAN		CONC.	UNITS	UNITS CONC. UNITS NO. OF SAMPLES		METHOD		ML/MDL	
Conventional and N	onconventi	onal Compou	unds						
BIOCHEMICAL OXYGEN	BOD₅	20	mg/L	11	mg/L	51	5210B		51
DEMAND (Report One)	CBOD₅		mg/L		mg/L				
FECAL COLIF			#/100 mL		#/100 mL				
TOTAL SUSPE SOLIDS (TS		47	mg/L	23	mg/L	366	2540D		366
AMMONIA (A		3.8	mg/L	1.2	mg/L	366	350.1		366
CHLORINE (TOTAL RESIDUA			mg/L		mg/L				
DISSOLVED OX			mg/L		mg/L				
TOTAL KJELD NITROGEN (T			mg/L		mg/L_				
NITRATE PL NITRITE NITRO			mg/L		mg/L				
OIL AND GRE	ASE	4.5	mg/L	2.3	mg/L	51	1664-A		51
PHOSPHORUS (TOTAL)		mg/L		mg/L				
TOTAL DISSOLVE (TDS)	SOLIDS		mg/L		mg/L				
OTHER			mg/L		mg/L				
				END OF P	ART B				
MO 780-1805 (09-08)			<u> ,</u>					_	

		ION

30. CERTIFICATION

All applicants must complete the Certification Section. This certification must be signed by an officer of the company or city official. All applicants must complete all applicable sections as explained in the Application Overview. By signing this certification statement, applicants confirm that they have reviewed the entire form and have completed all sections that apply to the facility for which this application is submitted.

25.0

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

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

PRINTED NAME AND OFFICIAL TITLE (MUST BE AN OFFICER OF THE COMPANY OR CITY OFFICIAL)

Chad Davis, P.E. Utility Director, Trenton Municipal Utilities	NY OR CITY OFFICIAL)
SIGNATURE	
(llaw 1) un'	
TELEPHONE NUMBER WITH AREA CODE	
660-359-2281	
DATE SIGNED December 23, 2013	
Upon request of the permitting authority, you must submit any other at the treatment works or identify appropriate permitting requirement	er information necessary to assess wastewater treatment practices ents.
For Design Flows Less than 1 Million Gallons Per Day, Send Completed Form to:	For Design Flows of 1 Million Gallons Per Day or Greater, Send Completed Form to:
Appropriate Regional Office Map of regional offices with addresses and phone	Department of Natural Resources Water Protection Program ATTN: NPDES Permits and Engineering Section P.O. Box 176
numbers is available on the Web at www.dnr.mo.gov/regions/ro-map.pdf.	Jefferson City, MO 65102
	PART C: WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE Do not complete the remainder of this application, unless: 1. Your facility design flow is equal to or greater the 2. Your facility is a pretreatment treatment works.	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE Do not complete the remainder of this application, unless: 1. Your facility design flow is equal to or greater that	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE Do not complete the remainder of this application, unless: 1. Your facility design flow is equal to or greater the 2. Your facility is a pretreatment treatment works.	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE Do not complete the remainder of this application, unless: 1. Your facility design flow is equal to or greater the 2. Your facility is a pretreatment treatment works. 3. Your facility is a combined sewer system.	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE Do not complete the remainder of this application, unless: 1. Your facility design flow is equal to or greater the 2. Your facility is a pretreatment treatment works. 3. Your facility is a combined sewer system.	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE Do not complete the remainder of this application, unless: 1. Your facility design flow is equal to or greater the 2. Your facility is a pretreatment treatment works. 3. Your facility is a combined sewer system.	WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

MO 780-1805 (09-08)

MAKE ADDIT	ONAL CO	PIES OF	THIS FO		EACH	UTFAL					
FACILITY NAME				RMIT NO.			— .	OUTF	ALL NO.		
Trenton Municipa			_	O-00397				#001			
PART D – EX	PANDED	EFFLUEN	TTESTIN	IG DATA	y ear a s		1.1.2				
40. EXPANDED EFFLUENT TESTING DATA											
Refer to the sup	plemental a	application i	nformatior	to detern	nine whet	her Part [) applies t	o the treat	ment works		
40.1 EFFLUE DAY OR IT HAS (1 AUTHORITY TO F INDICATED EFFL INFORMATION O COLLECTED THE QA/QC REQUIRE ANALYTES NOT A POLLUTANTS NO YEARS OLD.	OR IS REQU PROVIDE TH UENT TEST N COMBINE OUGH ANA MENTS OF ADDRESSEI	JIRED TO H/ IE DATA, TH ING INFORM D SEWER C LYSIS CONI 40 CFR PAR D BY 40 CFF	AVE) A PRE IEN PROVI MATION FO OVERFLOW DUCTED U T 136 AND PART 136 D IN THIS	TREATME DE EFFLU R EACH C 'S IN THIS SING 40 C OTHER AI . INDICAT FORM. EF	ENT PROG ENT TEST DUTFALL 1 SECTION. FR PART 1 PPROPRIA TE IN THE 1 FLUENT T	RAM, OR ING DATA THROUGH ALL INFO 136 METHO TE QA/QO BLANK RO ESTING M	IS OTHER FOR THE WHICH EF ORMATION ODS. IN A CREQUIRE OWS PROV MUST NOT	WISE REQU FOLLOWIN FLUENT IS REPORTE DDITION, T EMENTS FO IDED BELO BE MORE	JIRED BY TH IG POLLUTA S DISCHARG D MUST BE THIS DATA M DR STANDAR DW ANY DAT THAN FOUR	NTS. PROVIDE T BED. DO NOT INC BASED ON DATA UST COMPLY WI RD METHODS FC A YOU MAY HAV	THE CLUDE A ITH DR
OUTFALL NUMBE	R (Complete	e Once for E	ach Outfall I	Discharging	g Effluent to	Waters o	f the State.)	#001			
	MAX		Y DISCHAR	GE		AVERAG		SCHARG		ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
METALS (TOTAL	RECOVERA	BLE), CYAN	IDE, PHEN	OLS AND	HARDNES	s					
ANTIMONY	< 0.015	mg/l					_		1	EPA 200.8	
ARSENIC	< 0.015	mg/l							1	EPA 200.8	
BERYLLIUM	< 0.015	mg/l							1	EPA 200.8	
CADMIUM	< 0.015	mg/l							1	EPA 200.8	
CHROMIUM	< 0.015	mg/l							1	EPA 200.8	
COPPER	< 0.015	mg/l							1	EPA 200.8	
LEAD	< 0.015	mg/l							1	EPA 200.8	
MERCURY	< 0.0004	mg/l							1	EPA 245.1	
NICKEL	< 0.015	mg/l							1	EPA 200.8	
SELENIUM	< 0.015	mg/l							1	EPA 200.8	
SILVER	< 0.015	mg/l							1	EPA 200.8	
THALLIUM	< 0.015	mg/l							1	EPA 200.8	
ZINC	0.040	mg/l							1	EPA 200.8	
CYANIDE	< 0.20	mg/l							1	SM 4500CN-E	
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (as CaCO ₃)	182	mg/l eq. C							1	SM 2340B	
USE THIS SPACE	(OR A SEP/	ARATE SHE	ET) TO PRO	OVIDE INF	ORMATIO	N ON OTH	ER METAL	S REQUES	STED BY THE	PERMIT WRITE	R.
							-				
MO 780-1805 (09-08)											

FACILITY NAME		.D		IIT NO.	,				ALL NO.		
renton Municipal Utilitie				0039748				#001		ante, Marci	agente per
40.1 EXPANDED EFFL										fisiante daffasi n	
						01-14					
Complete Once for Eac		Dutfall Discharging Effluent to Wate									T
POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MD
									SAMPLES		
VOLATILE ORGANIC CO		s D	ata belo	ow is fro	om sam	ples col	lected a	ind anal	yzed in Ju		1
ACROLEIN	< 20	ug/l		_					1	EPA-624	
ACRYLONITRILE	< 20	ug/l							1	EPA-624	
BENZENE	< 5	ug/l							1	EPA-624	
BROMOFORM	< 5	ug/l							1	EPA-624	
CARBON TETRACHLORIDE	< 5	ug/l							1	EPA-624	
CHLOROBENZENE	< 10	ug/l							1	EPA-624	
CHLORODIBROMO- METHANE	< 5	ug/l							1	EPA-624	
CHLOROETHANE	< 10	ug/l							1	EPA-624	
2-CHLORO- ETHYLVINYL ETHER	< 5	ug/l							1	EPA-624	
CHLOROFORM	< 5	ug/l							1	EPA-624	
DICHLOROBROMO- METHANE											
1,1-DICHLORO- ETHANE	< 5	ug/l							1	EPA-624	
1,2-DICHLORO- ETHANE	< 5	ug/l							1	EPA-624	
TRANS-1,2- DICHLOROETHYLENE	< 5	ug/l							1	EPA-624	
1,1-DICHLORO- ETHYLENE	< 5	ug/l							1	EPA-624	
1,2-DICHLORO- PROPANE	< 10	ug/l							1	EPA-624	
1,3-DICHLORO- PROPYLENE	< 5	ug/l							1	EPA-624	
ETHYLBENZENE	< 10	ug/l							1	EPA-624	
METHYL BROMIDE											
METHYL CHLORIDE	< 5	ug/l							1	EPA-624	
METHYLENE CHLORIDE	< 5	ug/l							1	EPA-624	
1,1,2,2-TETRA- CHLOROETHANE											
TETRACHLORO- ETHANE	< 5	ug/l							1	EPA-624	
TOLUENE	< 10	ug/l							1	EPA-624	
3,4-BENZO- FLUORANTHENE											
BENZO(GH) PHERYLENE											-
BENZO(K) FLUORANTHENE 0 780-1805 (09-08)											

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FACILITY NAME	PERMIT NO.	OUTFALL NO.
Trenton Municipal Utilities - WWTP	MO- 0039748	#001

PART D - EXPANDED EFFLUENT TESTING DATA (CONTINUED)

40.1 EXPANDED EFFLUENT TESTING DATA (CONTINUED) Data below is from samples collected and analyzed in June 2010.

Complete Once for Each Outfall Discharging Effluent to Waters of the State.

	MAXII	MUM DAIL	Y DISCH	ARGE		AVERAG	SE DAILY	DISCHAR	GE	ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
BIS (2-CHLOROTHOXY) METHANE											
BIS (2-CHLOROETHYL) - ETHER											
BIS (2-ETHYLHEXYL) PHTHALATE	< 100	ug/l							1	EPA-625	
4-BROMOPHENYL PHENYL ETHER											
BUTYL BENZYL PHTHALATE											
2-CHLORONAPH- THALENE											
4-CHLORPHENYL PHENYL ETHER											
CHRYSENE	< 100	ugl							1	EPA-625	
DI-N-BUTYL PHTHALATE	< 100	ug/l							1	EPA-625	
DEBENZO (A,H) ANTHRACENE											
1,2-DICHLORO- BENZENE											
1,3-DICHLORO- BENZENE	< 100	ug/l							1	EPA-625	
1,4-DICHLORO- BENZENE	< 100	ug/l							1	EPA-625	
3,3-DICHLORO- BENZIDINE	< 100	ug/i							1	EPA-625	
DIETHYL PHTHALATE	< 100	ug/l	_						1	EPA-625	
DIMETHYL PHTHALATE	< 100	ug/l							1	EPA-625	
2,4-DINITRO-TOLUENE	< 100	ug/l							1	EPA-625	
2,6-DINITRO-TOLUENE	< 100	ug/l							1	EPA-625	
1,2-DIPHENYL- HYDRAZINE											
1,1,1-TRICHLORO- ETHANE	< 5	ug/l							1	EPA-624	
1,1,2-TRICHLORO- ETHANE	< 5	ug/l						l 	1	EPA-624	
TRICHLORETHYLENE	< 5	ug/l							1	EPA-624	
VINYL CHLORIDE USE THIS SPACE (OR A	< 10									EPA-624	
USE THIS SPACE (OR A THE PERMIT WRITER	SEPAKAI										
								-			

MO 780-1805 (09-08)

FACILITY NAME Trenton Municipal Utilities	- WWTP		PERMI MO-0	T NO. 0039748	OUTFALL NO. #001						
PART D - EXPANDED E	FFLUEN	T TESTIN		A (CONTI	NUED)						
40.1 EXPANDED EFFLU	ENT TES	TING DA	TA (CO	TINUED) Data I	elow is	from sa	amples	collected a	nd analyzed i	n June 2
Complete Once for Each	Outfall Di	scharging	Effluen	t to Wate	rs of the	State.					
	MAXI		Y DISCH	IARGE		AVERAG	SE DAILY	DISCHAR	GE	ANALYTICAL	
POLLUTANT	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
ACID-EXTRACTABLE CO	MPOUN	DS									
P-CHLORO-M-CRESOL											
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL										-	
2,4-DIMETHYLPHENOL											
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL	< 500	ug/ł							1	EPA-625	
2-NITROPHENOL											
4-NITROPHENOL	< 100	ug/l							1	EPA-625	
PENTACHLOROPHENOL	< 100	ug/l							1	EPA-625	
PHENOL	0.16	ug/l							1	EPA-420.1	
2,4,6- TRICHLOROPHENOL	< 100	ug/l							1	EPA-625	

Trenton Municipal Utilities - Permit # MO-0039748 - Renewal Application - December 2013 - Page 19 of 25

Frenton Municipal Utilities - PART D – EXPANDED EI 40.1 EXPANDED EFFLUE POLLUTANT	FFLUEN			0039748				#001			
40.1 EXPANDED EFFLUE			IO POIL								
		TING DA	TA (CON	1973 B. 1973	. <u>(20)</u>					and analyzed	
POLLUTANT		MUM DAII						DISCHAR		ANALYTICAL	
	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES	METHOD	ML/MDL
BASE-NEUTRAL COMPC	DUNDS								,		
ACENAPHTHENE	< 100	ug/l							1	EPA-625	
ACENAPHTHYLENE	< 100	ug/l							1	EPA-625	
ANTHRACENE	< 100	ug/l							1	EPA-625	
BENZIDINE	< 5	ug/l							1	EPA-624	
BENZO(A)ANTHRACENE	< 100	ug/l							1	EPA-625	
BENZO(A)PYRENE	< 100	ug/l							1	EPA-625	
FLUORANTHENE	< 100	ug/l							1	EPA-625	
FLUORENE	< 100	ug/l							1	EPA-625	
HEXACHLOROBENZENE											
HEXACHLOROCYCLO- PENTADIENE	< 100	ug/l							1	EPA-625	
HEXACHLOROETHANE	< 100	ug/l							1	EPA-625	
INDENO (1,2,3-CD) PYRENE											
ISOPHORONE	< 100	ug/l							1	EPA-625	
NAPHTHALENE											
NITROBENZENE											
N-NITROSODI- PROPYLAMINE								 			
N-NITROSODI- METHYLAMINE	< 100	ug/l							1	EPA-625	
N-NITROSODI- PHENYLAMINE	< 100	ug/l						 	1	EPA-625	
PHENANTHRENE											
PYRENE											
1,2,4- TRICHLOROBENZENE											
USE THIS SPACE (OR SEPA PERMIT WRITER.	ARATE SH	IEET) TO	PROVIDE	INFORM		OTHER	BASE-NEU	JTRAL CC	MPOUNDS R	EQUESTED BY T	HE

Trenton Municipal Utilities - Permit # MO-0039748 - Renewal Application - December 2013 - Page 20 of 25

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INCLUTY MARE INTERION MUNICIPUID MUNICIPUID INTERION INTERION INTERION MUNICIPUID INTERION	MAKE ADDITIONAL COPIES OF THIS FORM FOR E	ACH OUTFALL			
PART E – TOXICITY TESTING DATA S0. TOXICITY TESTING DATA S0. TOXICITY TESTING DATA Faller to the Supplemental Application Information to determine whether Part E applies to the treatment works. Publicy owned treatment works, or POTWS, meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acuto or chronic toxicity for each of the facility's discharge points. A. POTWs with a design flow rate greater than or equal to 1 million gallons per day. B. POTWs with a pretarement program (or those that are required to have one under 40 CFR Part 403). C. POTWs required by the permitting authority to submit data for these parameters • At a minimum, these results must include quarterly testing for a 12-month period within the past one year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute or chronic toxicity, depending on the range of receiving water dilution. Do not include information about combined sever overflows in its section. All information reported the toxicity of the reason for using alernalive monthes. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomondoing dual is required, do not complete Part E. Refer to the application overview for directions on which of the description due to regord the form to complete. Solf Refer to the application overview for directions on which of the description due to the form to complete. Solf Refer to the application overview for directions on which of the description due to end one-half security (ADM Part Edit Star DATA. Complete the failowing chart for the last three whole effluent toxicity tests. Allow one column per test (where each species Control Matter Part Part Part Part Part Part Part Par			01	UTFALL NO.	_
	Trenton Municipal Utilities - WWTP	IO- 0039748	#	ŧ001	
Refer to the Supplemental Application information to determine whether Part E applies to the treatment works. Publicly owned treatment works, or POTWS, meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity is the permitting authority to submit data for these parameters 9. POTWs with a perteatment program (or those that are required to have one under 40 CFR Part 403). C. POTWs required by the permitting authority to submit data for these parameters 9. At a minimum, these results must include quarterity testing for a 12-month period within the past one year using multiple species (minimum of two species) (and thosing in caute or chronic toxicity, depending on the range of receiving water dilution. Do not include information about combined sever overflows in this section. All information reguested backs, ther ways be submitted in place of Part 158. 9. If EPA methods were not used, report the reason for using alternative methods. If the biomonitoring data is required, do not complete Part E. The Diverson to camplete Part E. The Diverson PW to directions on which data reactions of the form to complete. 50.1 RECURET TST. INDICATE THE NUMBER OF WHOLE EFFLUENT TOXICITY TESTS CONDUCTED IN THE PAST FOUR AND ONE-HALF YEARS CHRONC ACUTE NDMIDUAL TEST DATA Complete the following chart for the balt three whole effluent toxicity tests. Allow one column per test (where each species consultuse a teng). Congrading and the ga	PART E - TOXICITY TESTING DATA				
Refer to the Supplemental Application information to determine whether Part E applies to the treatment works. Publicly owned treatment works, or POTWS, meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity is the permitting authority to submit data for these parameters 9. POTWs with a perteatment program (or those that are required to have one under 40 CFR Part 403). C. POTWs required by the permitting authority to submit data for these parameters 9. At a minimum, these results must include quarterity testing for a 12-month period within the past one year using multiple species (minimum of two species) (and thosing in caute or chronic toxicity, depending on the range of receiving water dilution. Do not include information about combined sever overflows in this section. All information reguested backs, ther ways be submitted in place of Part 158. 9. If EPA methods were not used, report the reason for using alternative methods. If the biomonitoring data is required, do not complete Part E. The Diverson to camplete Part E. The Diverson PW to directions on which data reactions of the form to complete. 50.1 RECURET TST. INDICATE THE NUMBER OF WHOLE EFFLUENT TOXICITY TESTS CONDUCTED IN THE PAST FOUR AND ONE-HALF YEARS CHRONC ACUTE NDMIDUAL TEST DATA Complete the following chart for the balt three whole effluent toxicity tests. Allow one column per test (where each species consultuse a teng). Congrading and the ga	50. TOXICITY TESTING DATA				
Publicly owned treatment works, or POTWS, meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or hornoic toxicity for each of the faility's discharge points. A. POTWs with a design flow rate greater than or equal to 1 million gallons per day. B. POTWs with a performant program (or these that are required to have one under 40 CFR Part 403). C. POTWs required by the permitting authority to submit data for these parameters • At a minimum, these results must include quarterly testing for a 12-monh period at testing for and one-hall years goedies (minimum of two species), or the results for hour tests parameters • At a minimum, these results must include quarterly testing for a 12-monh period at testing for and to enhalt data they period for and to enhalt data they period to achieve overfrow for and one-hall years goedies (minimum dros species), or the results for hour tests parameters • At a minimum, these results and addressed year data concept the results of whole sections and which the parater data testing do the rappropriate QA/QC requirements for standard methods for analyses not addressed year dot CFR Part 138 • If EPA methods were not used, report the reason for using atternative methods. If test summaries are available that contain all of the information requested below, they may be submitted in placed or DA/QC requirements for standard methods for analyses not data concept of Part E. If not bomonitoring data is required, do not complete Part E. Refer to the application overview for directions on which other sections of the form to complete. Solid RefOrmed TEST DATA. Complete the following chart for the last three whole effluent toxicity tests. Allow one column per test (where each species constlues a test). Coyother age if more than three tests are being reported. Outfail #001 001 001 001 001 001 001 001 001 001		n to determine whether Part F	applies to the trea	tment works	
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	PERMIT NO. MO- 0039748		OUTFALL NO. #001	
PART E - TOXICITY TESTING DATA (CONT			#001	
50.1 WHOLE EFFLUENT TOXICITY TESTS D				
Outfall #001	MOST RECENT	2 ND MOST		3 RD MOST RECENT
1. TYPE OF DILUTION WATER, IF SALT WATER,				
FRESH WATER	IN/A	N/A	EX GALIO ON L	N/A
SALT WATER				
J. GIVE THE PERCENTAGE EFFLUENT USED FO	OR ALL CONCENTRATIONS IN T	HE TEST SERIES		
K. PARAMETERS MEASURED DURING THE TES	T. (STATE WHETHER PARAMET	ER MEETS TEST	METHOD SPEC	CIFICATIONS)
pH	7.5	7.1		
SALINITY	N/A	N/A		N/A
TEMPERATURE	24.2	24.6		
AMMONIA - Unionized	< 0.1 mg/l	< 0.1 mg	g/l	
DISSOLVED OXYGEN	8.2 mg/l	6.9 mg/		
L. TEST RESULTS				
ACUTE: Survival for Fat Head Mionow		95%		
PERCENT IN SURVIVAL IN 100% EFFLUENT-	Water Fleas: 100%	95%		
LC ₅₀	> <u>100%</u>	> 100%		
95% C.I.	N/A	N/A		
CONTROL PERCENT SURVIVAL	100%	100%		
OTHER (DESCRIBE)				
CHRONIC:				1
NOEC	N/ <u>A</u>	N/A		N/A
IC ₂₅	N/A	N/A		N/A
CONTROL PERCENT SURVIVAL	N/A	N/A		N/A
OTHER (DESCRIBE)	N/A	N/A		N/A
M. QUALITY CONTROL ASSURANCE		_		
IS REFERENCE TOXICANT DATA AVAILABLE?				
WAS REFERENCE TOXICANT TEST WITHIN				
ACCEPTABLE BOUNDS?				
WHAT DATE WAS REFERENCED TOXICANT TEST RUN (MM/DD/YYYY)?				
OTHER (DESCRIBE)				
50.2 TOXICITY REDUCTION EVALUATION				
Is the treatment works involved in a toxicity reduction	evaluation?	🗋 No		
If yes, describe:				
50.3 SUMMARY OF SUBMITTED BIOMONITO	RING TEST INFORMATION			
If you have submitted biomonitoring test information,	or information regarding the cause	e of toxicity, within	the past four and	d one-half years, provide the
dates the information was submitted to the permitting	authority and a summary of the re	esults.		
Date Submitted (MM/DD/YYYY)				
Summary of Results (See Instructions)				
		A PARANA AN AN ANALY ANALY		
REFER TO THE APPLICATION OVERVIEW		ER PARTS OF F		
MO 780-1805 (09-08)				

Trenton Municipal Utilities - Permit # MO-0039748 - Renewal Application - December 2013 - Page 22 of 25

MAKE ADDITIONAL COPIES OF THIS FORM F	OR EACH OUTFALL.				
FACILITY NAME	PERMIT NO.		OUTFALL	NO.	
Trenton Municipal Utilities - WWTP	MO- 0039748		#001		
PART F - INDUSTRIAL USER DISCHARG	ES AND RCRA/CERCL	A WASTES		The Carl And	
60. INDUSTRIAL USER DISCHARGE	S AND RCRA/CERCLA	WASTES			
Refer to the Supplemental Application Inform	nation to determine whe	ther Part F app	lies to the treatme	nt works.	
All treatment works receiving discharges from sign this form.	nificant industrial users or w	hich receive RCF	RA, CERCLA, or oth	er remedial wastes m	ust complete
GENERAL INFORMATION					
60.1 PRETREATMENT PROGRAM					
Does the treatment works have, or is it subject to,	an approved pretreatment	program?			
Yes No 60.2 NUMBER OF NON-CATEGORICAL SIG					S. or Cillio
PROVIDE THE NUMBER OF EACH OF WORKS.		S OF INDUSTRIA	L USERS THAT DIS		
A. Number of Non-Categorical SIUs One		B. Numb	per of CIUs		
60.3 SIGNIFICANT INDUSTIRAL USER INF	ORMATION				
Supply the following information for each SIU. If n		es to the treatme	nt works, provide the	e information requeste	d for each.
Submit additional pages as necessary.					
NAME					
Trenton Home Foods, Division of ConAgra	Grocery Products				
MAILING ADDRESS			CITY	STATE	ZIP
1401 Harris Avenue			Trenton	MO	64683
60.4 INDUSTRIAL PROCESSES					
DESCRIBE ALL OF THE INDUSTRIAL PROCESS	SES THAT AFFECT OR CO	ONTRIBUTE TO	THE SIU'S DISCHAR	RGE.	
canning of food products					
60.5 PRINCIPAL PRODUCT(S) AND RAW M	ATERIAL (S)				
Describe all of the principle processes and raw ma		ute to the SIU's o	lischarge.		
PRINCIPAL PRODUCT(S)					
canning of food products					
RAW MATERIAL(S)					
meat, cheese, gravy, and other food produc	ts				
60.6 FLOW RATE					
A. PROCESS WASTEWATER FLOW RAT gallons per day, or gpd, and whether the			cess wastewater dis	charged into the colle	ction system in
gpd 🗹 Continuous	Intermittent				
B. NON-PROCESS WASTEWATER FLOW	VRATE. Indicate the avera	ge daily volume	of non-process wast	ewater discharged int	o the collection
system in gallons per day, or gpd, and w		ntinuous or interm	ittent.	-	
C.			ave a separate se r domestic waste	ervice connection	ļ
N/A gpd Continuous	Intermittent	for the	r domestic waste	ewater.	
60.7 PRETREATMENT STANDARDS					
Indicate whether the SIU is subject to the following					
A. Local Limits	⊡ Ye		No		
B. Categorical Pretreatment Standards	Ye		No		
If subject to categorical pretreatment standards, w N/A	hich category and subcateg	jory?			
60.8 PROBLEMS AT THE TREATMENT WO	RKS ATTRIBUTED TO W/	STE DISCHARG	ED BY THE SILL		
Has the SIU caused or contributed to any problem				nree vears?	
Yes 🗌 No If Yes, describe eac	ch episode				
Occasionally the discharges from this custor operational difficulty at the TMU wastewater adjustments to the wastewater plant in order	treatment plant. When	these discharge	es occur TMU WW		
MO 780-1805 (09-08)			, , , , , , , , , , , , , , , , , , ,		

Page 15

MAKE ADDITIONAL COPIES OF THIS FORM FO	DR EACH OUTFALL.	
FACILITY NAME	PERMIT NO.	OUTFALL NO.
Trenton Municipal Utilities - WWTP	MO- 0039748	#001
PART F - INDUSTRIAL USER DISCHARGE	ES AND RCRA/CERCLA WASTES (CONTIN	UED)
	D BY TRUCK, RAIL, OR DEDICATED PIPELINE	
□ Yes	or has it in the past three years received RCRA has	zardous waste by truck, rail or dedicated pipe?
WASTE TRANSPORT. Method by which RCRA w		
WASTE DESCRIPTION. Give EPA hazardous wa	ste number and amount (volume or mass, specify u	inits).
EPA HAZARDOUS WASTE NUMBER	AMOUNT	UNITS
60.10 CERCLA, OR SUPERFUND, WASTEW, ACTIVITY WASTEWATER	ATER, RCRA REMEDIATION/CORRECTIVE ACTIV	ON WASTEWATER AND OTHER REMEDIAL
	s currently (or has it been notified that it will) receive	
Yes No Provide a list of site: 60.11 WASTE ORIGIN	s and the requested information for each current and	a future site.
	ERCLA/RCRA/or other remedial waste originates (o	or is expected to originate in the next five years)
60.12 POLLUTANTS		
	or are expected to be received). Included data on ve	olume and concentration, if known. (Attach
additional sheets if necessary)		
60.13 WASTE TREATMENT A. Is this waste treated (or will it be treated)	prior to optoring the treatment works?	
Yes No	phot to entering the treatment works:	
If Yes, describe the treatment (provide information	about the removal efficiency):	
B. Is the discharge (or will the discharge be		
Continuous Intermi	ittent	
If intermittent, describe the discharge schedule:		
	END OF PART F TO DETERMINE WHICH OTHER PARTS O	
	THE FERMINE WHICH FITHER PARTS ()	

MAKE	ADDITIONAL COPIES OF THIS FORM FO				
FACILITY		PERMIT NO.		OUTFALL NO.	
	n Municipal Utilities - WWTP	MO- 0039748		#001	
	G-COMBINED SEWER SYSTEMS				a en
70.	COMBINED SEWER SYSTEMS (CO				
	o the Supplemental Application Information				N/A
70.1	SYSTEM MAP				
	a map indicating the following: (May be inc	luded with basic appl	cation information.)		
	A. All CSO Discharges.				
	B. Sensitive Use Areas Potentially	Affected by CSOs.	e.g., beaches, drinking wate	r supplies, shellfish beds	, sensitive aquatic
	ecosystems and Outstanding N C. Waters that Support Threatene				
70.2	C. Waters that Support Threatene SYSTEM DIAGRAM	and Endangered S	becies Potentially Affected by	y CSOS.	
	a diagram, either in the map provided abov		wing of the Combined Day	Collection System the	tingland the fallouing
informat		e or on a separate of	awing, of the Combined Sew	er Collection System tha	at includes the following
	A. Locations of Major Sewer Trun	k Lines, Both Combir	ed and Separate Sanitary.		
	B. Locations of Points where Sep	•	s Feed into the Combined Se	wer System.	
1	C. Locations of In-Line or Off-Line				
	D. Locations of Flow-Regulating E E. Locations of Pump Stations.	Devices.			
70.3	PERCENT OF COLLECTION SYSTEM 1				
70.4	POPULATION SERVED BY COMBINED				
70.5	NAME OF ANY SATELLITE COMMUNIT				
70.6	CSO OUTFALLS. COMPLETE THE FOL	LOWING ONCE FO	REACH CSO DISCHARGE		
70.7	DESCRIPTION OF OUTFALL				
Α.	Outfall Number				
В.	Location				
C.	Distance from Shore (if applicable)			Surface (if applicable)	
	ft		ft		
E.	Which of the following were monitored du fall CSO Pollutant Concentration		CSO CSO?		ring Water Quality
					ing valor addity
F.	How many storm events were monitored	last year?			
70.8	CSO EVENTS ve the Number of CSO Events in the Last Y	(aar	B. Give the Average D	aration Per CSO Event	
		Approximate	Hours		Approximate
	ve the Average Volume Per CSO Event			A RAINFALL THAT CAU	
] Approximate	THE LAST YEAR	INCHES OF RAI	
70.9	DESCRIPTION OF RECEIVING WATER	s			
Α.	Name of Receiving Water				
			0.11 0	1 D'- 1 W- 1	(6)(
В.	Name of Watershed/River/Stream System	1 U.S	Soil Conservation Service 1	4-Digit watersned Code	(IT KNOWN)
Name of	State Management/River Basin	U.S	Geological Survey 8- Digit H	vdrologic Cataloging Ur	nit Code (If Known)
Nume of	olao managomentraron baom		, ,	,	
70.10	CSO OPERATIONS				
Describe	e any known water quality impacts on the re ent shellfish bed closings, fish kills, fish advi	ceiving water caused	by this CSO (e.g., permaner	t or intermittent beach c	losings, permanent or
Internate	ent sheimsn bed closings, iish kins, iish advi	solies, other recreation	ina loss, or violation of any a	applicable state water du	anty standard.)
		END	F PART G.		
	TO THE APPLICATION OVERVIEW	TO DETERMINE V	HICH OTHER PARTS O	F FORM B2 YOU MU	IST COMPLETE.
MO 780-1805	(09-08)				
renton	Municipal Utilities - Permit # MO	-0039748 - Rene	wal Application - Dec	ember 2013 - Page	e 25 of 25

,	AP29604
	RECEIVED
	FOR FACELITIES THAT
WATER PROTECTION PROGRAM	FOR FACILITIES THAT
RECEIVE PRIMARILY DOMESTIC WASTE AND HAVE	
100,000 GALLONS PER DAY	A DESIGN FLOW WORE THAN Chion Program
FACILITY NAME	- ···· []
Trenton Municipal Utilities Wastewater Treatment Plant	COUNTY
MO-0039748	Grundy
APPLICATION OVERVIEW	
Form B2 has been developed in a modular format and consists of Parts A, Information (Parts D, E, F and G) packet. All applicants must complete Pa complete parts of the Supplemental Application Information packet. The for you must complete. Submittal of an incomplete application may result in the	arts A, B and C. Some applicants must also ollowing items explain which parts of Form B2
BASIC APPLICATION INFORMATION	
A. Basic application information for all applicants. All applicants mus	
B. Additional application information for all applicants. All applicants	must complete Part B.
C. Certification. All applicants must complete Part C.	
SUPPLEMENTAL APPLICATION INFORMATION	a na sana ang sa
D. Expanded Effluent Testing Data. A treatment works that discharges and meets one or more of the following criteria must complete <i>Part D</i>	- Expanded Effluent Testing Data:
1. Has a design flow rate greater than or equal to 1 million gallons	per day.
2. Is required to have or currently has a pretreatment program.	
3. Is otherwise required by the permitting authority to provide the ir	nformation.
E. Toxicity Testing Data. A treatment works that meets one or more of t <i>Toxicity Testing Data</i> :	he following criteria must complete Part E -
1. Has a design flow rate greater than or equal to 1 million gallons	per day.
2. Is required to have or currently has a pretreatment program.	
3. Is otherwise required by the permitting authority to provide the in	nformation.
F. Industrial User Discharges and Resource Conservation and Recovery Response, Compensation and Liability Act Wastes. A treatment work significant industrial users, also known as SIUs, or receives a Resour CERCLA wastes must complete <i>Part F - Industrial User Discharges a /CERCLA Wastes</i> .	ks that accepts process wastewater from any ree Conservation and Recovery Act or
SIUs are defined as:	
1. All Categorical Industrial Users, or CIUs, subject to Categorical F Federal Regulations 403.6 and 40 Code of Federal Regulations	403.6 and 40 CFR Chapter 1, Subchapter N.
2. Any other industrial user that meets one or more of the following:	
 Discharges an average of 25,000 gallons per day or me works (with certain exclusions). 	
 Contributes a process waste stream that makes up five hydraulic or organic capacity of the treatment plant. 	e percent 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 prov	vide the information.
G. Combined Sewer Systems. A treatment works that has a combined s <i>Combined Sewer Systems</i> .	sewer system must complete <i>Part G -</i>
ALL APPLICANTS MUST COMPLETE PARTS A, B and C 780-1805 (09-16)	Page 1

MISSOURI DEPARTMENT OF NATURAL RI WATER PROTECTION PROGRAM FORM B2 – APPLICATION FOR AN			2 3 2018	FOR A CHECK N	GENCY USE ONLY
A B FACILITIES THAT RECEIVE PRIMA				gran <mark>i DATE RE</mark>	
HAVE A DESIGN FLOW MORE TH					3-18 Q
				50	5-10 4
PART A – BASIC APPLICATION INFORMATION					
1. THIS APPLICATION IS FOR:	- 11:4	Construction	- Downit #		
 An operating permit for a new or unpermitted face (Include completed Antidegradation Review or re An operating permit renewal: Permit #MO 	equest to condu	Construction uct an Antidegr Expiration D	adation Revi	ew, see instr	uctions)
An operating permit modification: Permit #MO- <u>C</u>			isinfection ac	ded to facilit	у
1.1 Is the appropriate fee included with the application		ons for approp	riate fee)?		YES NO
2. FACILITY			· · · · · ·		
NAME The feat March 1914 (14) - March 2014 - The state and Dispat				TELEPHONE 1 660-359-3	NUMBER WITH AREA CODE
Trenton Municipal Utilities Wastewater Treatment Plant	CITY			STATE	ZIP CODE
98 Southwest Ash Lane	Trenton			MO	64683
2.1 LEGAL DESCRIPTION (Facility Site): NE 1/4, N	IW 1⁄4, NW 1⁄4,	Sec. 27 , T	61N, R 24W		COUNTY Grundy
2.2 UTM Coordinates Easting (X): <u>44962</u> 0 No For Universal Transverse Mercator (UTM), Zon		4434676 renced to Nort	h American D		
2.3 Name of receiving stream: Muddy Creek					
2.4 Number of Outfalls: 3 wastewater outfa	lls.0 stori	mwater outfalls	s. 3 instr	eam monitor	ing sites
	<u>i en el secondo de la composición de la composi</u>				
3. OWNER					
NAME Trenton Municipal Utilities (Ron Urton)		admin@trento	nmo.com	660-359-2	NUMBER WITH AREA CODE
ADDRESS				STATE MO	ZIP CODE 64683
PO Box 1081100 Main Street3.1Request review of draft permit prior to Public No	Trenton	VES			04003
3.2 Are you a Publically Owned Treatment Works (F					
If yes, is the Financial Questionnaire attached?		VES			•
			—		
		YES	🗹 NO		
3.3 Are you a Privately Owned Treatment Facility?	gulated by the			(PSC)? [YES 🔽 NO
3.3 Are you a Privately Owned Treatment Facility?3.4 Are you a Privately Owned Treatment Facility re		Public Service	Commission	and the second	
 3.3 Are you a Privately Owned Treatment Facility? 3.4 Are you a Privately Owned Treatment Facility re 4. CONTINUING AUTHORITY: Permanent organiz maintenance and modernization of the facility. 	ation which w	Public Service	Commission e continuing		or the operation,
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3.3 Are you a Privately Owned Treatment Facility? 3.4 Are you a Privately Owned Treatment Facility re 4. CONTINUING AUTHORITY: Permanent organiz maintenance and modernization of the facility. NAME Trenton Municipal Utilities ADDRESS PO Box 108 1100 Main Street	Eation which we city city City Trenton clude a copy of	Public Service ill serve as th NL ADDRESS admin@trento	Commission e continuing nmo.com	TELEPHONE I 660-359-2 STATE MO	NUMBER WITH AREA CODE 281 ZIP CODE 64683
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 3.3 Are you a Privately Owned Treatment Facility? 3.4 Are you a Privately Owned Treatment Facility re 4. CONTINUING AUTHORITY: Permanent organiz maintenance and modernization of the facility. NAME Trenton Municipal Utilities ADDRESS PO Box 108 1100 Main Street If the Continuing Authority is different than the Owner, ind description of the responsibilities of both parties within th 5. OPERATOR NAME Bob Hutchinson EMAIL ADDRESS wwtp@trentonmo.com 6. FACILITY CONTACT NAME Bob Hutchinson 	CITY City Trenton Clude a copy of e agreement.	Public Service ill serve as th NL ADDRESS admin@trento the contract ag er Plant Super NUMBER WITH ARE 8801 TITLE Wastewater TELEPHONE NU	Commission e continuing nmo.com greement bet visor A code Plant Super JMBER WITH ARE/	A authority f	or the operation, NUMBER WITH AREA CODE 281 ZIP CODE 64683 o parties and a

FACILITY NAME	PERMIT NO.	outfall no.
Trenton Municipal Utilities WW	MO- 0039748	001
PART A - BASIC APPLICATION INFORM	ATION	-

7. FACILITY INFORMATION

7.1 Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant. Show all of the treatment units, including disinfection (e.g. – Chlorination and Dechlorination), influents, and outfalls. Specify where samples are taken. Indicate any treatment process changes in the routing of wastewater during dry weather and peak wet weather. Include a brief narrative description of the diagram.

Attach sheets as necessary.

The headworks include a mechanical bar screen, plant influent pumps, peak flow pumps, and grit removal. The liquid stream treatment process includes the aeration basin and final clarifiers. During periods of wet weather, inflow and infiltration in the collection system induce peak flows. The maximum capacity of the influent pump station is ten MGD. During peak events seven MGD is conveyed to the liquid stream treatment process via plant influent pumping, and three MGD is conveyed to the south lagoon via peak flow pumps.

The solids handling process serves to convey, dewater, stabilize, and store solids wasted from the activated sludge treatment process. Critical processes and equipment include waste sludge pumping, aerobic sludge holding, sludge feed pumping, polymer feed, sludge dewatering, lime stabilization, and a thickened sludge storage pad. The solids handling process meets the Environmental Protection Agency (EPA) Part 503 regulations for Class B biosolids; therefore following stabilization, waste solids from the activated sludge treatment process are land applied on local agricultural sites.

	Y NAME on Municipal Utilities WWTP	PERMIT NO. MO-0039748			UTFALL NO.)1	
7.	FACILITY INFORMATION (continu					
7.2	 Topographic Map. Attach to this a property boundaries. This map mu a. The area surrounding the treat b. The location of the downstream c. The major pipes or other struct through which treated wastewa applicable. d. The actual point of discharge. e. Wells, springs, other surface w the treatment works, and 2) liss f. Any areas where the sewage s g. If the treatment works receives (RCRA) by truck, rail, or special 	st show the outline of t ment plant, including a n landowner(s). (See la cures through which wa ater is discharged from vater bodies and drinkin ted in public record or sludge produced by the waste that is classifie	the facility and the facility and the factor of the treatment p astewater wells the otherwise known the treatment work d as hazardous	the treatme the treatme lant. Include tat are: 1) wi to the appli s is stored, t under the Re	nformation. nt works and the p e outfalls from bypa thin ¼ mile of the p icant. reated, or dispose esource Conserval	ipes or other structur ass piping, if property boundaries d. tion and Recovery Ad
	it is treated, stored, or dispose		ap where that ha	izaruous wa		thent works and who
7.3	Facility SIC Code: 92-500		Discharge SI 4952	C Code:		
7.4	Number of people presently connect	ted or population equi	valent (P.E.):	22,893	Design P.E.	60,000
	Number of units presently connec Homes Trailers Number of Commercial Establish	Apartments	Other (incl	uding indust	rial) <u>2356</u>	
7.6	Design Flow 3,000,000 gallons per day		Actual Flow 1,650,000 gall	ons per day		
7.7	Will discharge be continuous throug Discharge will occur during the follo		s 🔽 many days of the	No 🗌 e week will d	lischarge occur?	
7.8		to the facility?	many days of the Yes scharge to your	e week will c	No 🗍 ch sheets as neces	
7.8	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu	to the facility? es of industries that di tting down in May 201	Many days of the Yes scharge to your 8 and industrial l	e week will c	No 🗌 ch sheets as neces be significantly redu	uced.
7.8	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ	to the facility? to the facility? thes of industries that di tting down in May 2018 /IEW to determine who	many days of the Yes scharge to your 8 and industrial l	e week will c	No 🗌 ch sheets as neces be significantly redu	uced.
7.8	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVER Does the facility accept or process Is wastewater land applied?	to the facility? to the facility? thes of industries that di tting down in May 2018 /IEW to determine who	many days of the Yes scharge to your 8 and industrial l	e week will c facility. Atta oading will b	No 🗌 ch sheets as neces be significantly redu s needed for Part I	uced.
7.8 7.9 7.10	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVER Does the facility accept or process	wing months: How to to the facility? tes of industries that di tting down in May 2014 /IEW to determine who leachate from landfills?	many days of the Yes scharge to your 8 and industrial l ether additional i	e week will c facility. Attac oading will b nformation i Yes	No ch sheets as neces be significantly redu s needed for Part No No	uced.
7.8 7.9 7.10 7.11	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVERN Does the facility accept or process Is wastewater land applied? If yes, is Form I attached?	wing months: How i to the facility? tes of industries that di tting down in May 2018 /IEW to determine who leachate from landfills?	Yes Scharge to your 8 and industrial l ether additional i	e week will of facility. Attaction of the facility of the faci	No 🗌 ch sheets as neces be significantly redu s needed for Part I No 🔽 No 🗐	uced.
7.8 7.9 7.10 7.11	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVER Does the facility accept or process Is wastewater land applied? If yes, is Form I attached? Does the facility discharge to a losi	wing months: How in to the facility? tes of industries that di tting down in May 2018 /IEW to determine who leachate from landfills? ng stream or sinkhole? een completed for this	Yes Scharge to your 8 and industrial l ether additional i	e week will c facility. Attac oading will b nformation i Yes Yes Yes Yes Yes Yes Yes Yes	No 🗋 ch sheets as neces be significantly redu s needed for Part I No 🗹 No 🖸 No 🗍	uced.
7.8 7.9 7.10 7.11	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVER Does the facility accept or process Is wastewater land applied? If yes, is Form I attached? Does the facility discharge to a losi Has a wasteload allocation study b LABORATORY CONTROL INFOR	to the facility? to the facility? tes of industries that di tting down in May 2014 /IEW to determine who leachate from landfills? ng stream or sinkhole? een completed for this RMATION	Yes scharge to your 8 and industrial l ether additional i ?: facility?	e week will c facility. Attac oading will b nformation i Yes Yes Yes Yes Yes Yes Yes Yes	No 🗋 ch sheets as neces be significantly redu s needed for Part I No 🗹 No 🖸 No 🗍	uced.
7.8 7.9 7.10 7.11	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVER Does the facility accept or process Is wastewater land applied? If yes, is Form I attached? Does the facility discharge to a losi Has a wasteload allocation study b	to the facility? to the facility? tes of industries that di tting down in May 2018 /IEW to determine who leachate from landfills? een completed for this RMATION ED BY PLANT PERSO	Yes scharge to your 8 and industrial l ether additional i ?: facility?	e week will c facility. Attac oading will b nformation i Yes Yes Yes Yes Yes Yes Yes Yes	No 🗋 ch sheets as neces be significantly redu s needed for Part I No 🗹 No 🖸 No 🗍	uced.
7.8	Discharge will occur during the follo Is industrial wastewater discharged If yes, describe the number and typ Refer to cover letter. Conagra is shu Refer to the APPLICATION OVER Does the facility accept or process Is wastewater land applied? If yes, is Form I attached? Does the facility discharge to a losi Has a wasteload allocation study b LABORATORY CONTROL INFOR	to the facility? to the facility? tes of industries that di tting down in May 2014 /IEW to determine who leachate from landfills? een completed for this RMATION ED BY PLANT PERSON t. simple test such as pheologen, Chemi	many days of the Yes scharge to your 8 and industrial l ether additional i ?: facility? DNNEL I, settleable solid	e week will of facility. Attaction of facilit	No ch sheets as neces be significantly redu s needed for Part No No No No No Ves Yes	uced. F.

	ERMIT NO. 10- 0039748	OUTFALL 001	. NO.		
PART A – BASIC APPLICATION INFORMATI					
9. SLUDGE HANDLING, USE AND DISPO		- <u></u>			
9.1 Is the sludge a hazardous waste as defir	ned by 10 CSR 25? Yes	s 🗍	No 🗹		
9.2 Sludge production (Including sludge rece	eived from others): Design Dry	Tons/Year 980	Actual Dry T	ons/Year 435	
9.3 Sludge storage provided: <u>60k</u> Cubic fe	eet; <u>120</u> Days of storage; <u>3</u> 8	5 Average perce	ent solids of s	ludge;	
🔲 No sludge storage is provided. 📋 SI	udge is stored in lagoon.				
🗌 Ba	isin 🗌 Li	uilding agoon ther (Describe)			
9.5 Sludge Treatment:					
 ☐ Anaerobic Digester ☑ Aerobic Digester ☑ Air or Heat 			₋agoon Other (Attach	Description)	
9.6 Sludge use or disposal:					
 Land Application Contract Ha Surface Disposal (Sludge Disposal La Other (Attach Explanation Sheet) 			Solid	Waste Landfill eration	
	disposal facility: omplete below)				
^{NAME} Trenton Municipal Utilities		EMAIL ADDRESS			
ADDRESS	CITY		STATE	ZIP CODE	
98 Southwest Ash Lane	Trenton		мо	64683	
CONTACT PERSON	TELEPHONE NUMBER	WITH AREA CODE	PERMIT N		
bob Hutchinson	660-359-3801		MO- ⁰⁰³⁹⁷⁴⁸		
9.8 Sludge use or disposal facility: □ By Applicant ☑ By Others (Co	amplata balaw)		· .		
		EMAIL ADDRES	S		
NAME	1R				
NAME Refer to annual sludge report submitted to MDN			OTATE	ZIP CODE	
	CITY		STATE		
Refer to annual sludge report submitted to MDN	CITY TELEPHONE NUMBER	WITH AREA CODE	PERMIT N		
Refer to annual sludge report submitted to MDN	TELEPHONE NUMBER		PERMIT N		

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renton Municipal Utilities WWTP	PERMIT NO.	OUTFALL NO.
PART B - ADDITIONAL APPLICATIO		001
10. COLLECTION SYSTEM		
10.1 Length of sanitary sewer collect	tion system in miles	
<u>60</u>		
10.2 Does significant infiltration occu If yes, briefly explain any steps efer to Bypass Elimination Plan	ur in the collection system? ☑Y underway or planned to minimize	
11. BYPASSING		
Does any bypassing occur anywhere ir f yes, explain: Refer to Bypass Elimination Plan	n the collection system or at the tre	atment facility? Yes 🖌 No 🗌
•		
12. OPERATION AND MAINTENAM	NCE PERFORMED BY CONTRAC	TOR(S)
Yes ☐ No ☑ If Yes, list the name, address, telephor (Attach additional pages if necessary.)		actor and describe the contractor's responsibilities.
AILING ADDRESS		· · · · · · · · · · · · · · · · · · ·
ELEPHONE NUMBER WITH AREA CODE	EMAIL	ADDRESS
	S AND SCHEDULES OF IMPLEM	ENTATION
RESPONSIBILITIES OF CONTRACTOR 13. SCHEDULED IMPROVEMENT Provide information about any uncomp wastewater treatment, effluent quality, mplementation schedules or is plannir	S AND SCHEDULES OF IMPLEM oleted implementation schedule or or design capacity of the treatmen ng several improvements, submit s	ENTATION Uncompleted plans for improvements that will affect the t works. If the treatment works has several different eparate responses for each.
RESPONSIBILITIES OF CONTRACTOR 13. SCHEDULED IMPROVEMENT Provide information about any uncomp	S AND SCHEDULES OF IMPLEM oleted implementation schedule or or design capacity of the treatmen ng several improvements, submit s	ENTATION Uncompleted plans for improvements that will affect the t works. If the treatment works has several different eparate responses for each.
RESPONSIBILITIES OF CONTRACTOR 13. SCHEDULED IMPROVEMENT Provide information about any uncomp wastewater treatment, effluent quality, implementation schedules or is plannir	S AND SCHEDULES OF IMPLEM oleted implementation schedule or or design capacity of the treatmen ng several improvements, submit s	ENTATION Uncompleted plans for improvements that will affect the t works. If the treatment works has several different eparate responses for each.

FACILITY NAME	Itilities WWT	P	PERMIT NO. MO-003974	8		OUTFALL	NO.		
PART B – ADDIT									
	TESTING D								
Applicants must pr through which ef reported must be l comply with QA/Q not addressed by more than four an	fluent is disc based on data C requiremen 40 CFR Part	charged. Da a collected th its of 40 CFI 136. At a m	o not include in hrough analysi R Part 136 and	nformation is conducte 1 other app	of combined s d using 40 CF ropriate QA/Q	ewer overflows R Part 136 met C reguirements	in this section hods. In add for standard	on. All inf dition, this methods	ormation s data must s for analytes
Outfall Number									
		MAXIM	IUM DAILY	VALUE	A	VERAGE DA	AILY VAL	UE	
PARAMETER			Va	lue	Units	Value	Units	Numb	er of Samples
bH (Minimum)					S.U.		S.U.		365
pH (Maximum)					S.U.		S.U.		365
Flow Rate	ate				MGD		MGD	365	
*For pH report a m	inimum and a	a maximum	daily value						
			JM DAILY HARGE	AVER/	AGE DAILY DI	SCHARGE	ANALYTICAL		ML/MDL
POLLUTA	IN I	Conc.	Units	Conc.	Units	Number of Samples	METH	OD	
Conventional and	Nonconventio	onal Compo	unds		· ·				
BIOCHEMICAL OXYGEN	BOD ₅		mg/L		mg/L				
DEMAND (Report One)	CBOD₅		mg/L		mg/L				
E. COLI			#/100 mL		#/100 mL				
TOTAL SUSPEND SOLIDS (TSS)	DED		mg/L		mg/L	44 (100 - 100 (10) (10			
AMMONIA (as N)			mg/L		mg/L				
CHLORINE* (TOTAL RESIDUA	L, TRC)		mg/L		mg/L				
DISSOLVED OXY	GEN		mg/L		mg/L				
OIL and GREASE			mg/L		mg/L				
			mg/L		mg/L				

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Page 7

FACILITY NAME	PERMIT NO. MO- 0039748	· · · · · · · · · · · · · · · · · · ·	OUTFALL NO. 001
Trenton Municipal Utilities PART C - CERTIFICATION			
and monitoring shall be submitted	utant Discharge Elimination S by the permittee via an electr following must be checked	System (NPDES) Ele onic system to ensur I in order for this ap	ctronic Reporting Rule, reporting of effluent li e timely, complete, accurate, and nationally- plication to be considered complete. Plea
✓ - You have completed and sub	nitted with this permit applica	tion the required doc	umentation to participate in the eDMR syster
- You have previously submitte eDMR system.	d the required documentation	to participate in the	eDMR system and/or you are currently using
☐ - You have submitted a written waivers.	request for a waiver from elec	ctronic reporting. Se	e instructions for further information regarding
16. CERTIFICATION		19 2 Hills I state Alto	
applicants must complete all applic	cable sections as explained in	the Application Ove	ed by an officer of the company or city officia rview. By signing this certification statement, ections that apply to the facility for which this
ALL APPLICANTS MUST COMP	LETE THE FOLLOWING CEI	RTIFICATION.	An all a
Submitting false information, includ	ling the possibility of fine and	OFFICIAL TITLE (MUS	T BE AN OFFICER OF THE COMPANY OR CITY OFFICIAL)
RONALD R. URT	DN JR.	CITY AD	MINISTRATOR/UTILITY DIR
R mald R U	ita f.		
660 - 359 - 2013 DATE SIGNED	3		
3/19/18			
Upon request of the permitting aut at the treatment works or identify a	hority, you must submit any o appropriate permitting require	other information neco ments.	essary to assess wastewater treatment pract
Send Completed Form to:	,		
		of Natural Resources otection Program	
	ATTN: NPDES Perm		Section
	Jefferson Cit	ty, MO 65102-0176	
REFER TO THE APPLICA		OF PART C RMINE WHICH PAR	TS OF FORM B2 YOU MUST COMPLETE.
Do not complete the remainder of	this application, unless at least	st one of the followin	g statements applies to your facility:
2. Your facility is a	ign flow is equal to or greater pretreatment treatment works	ינחמה ז,000,000 gallo s.	ons per day.
•	combined sewer system.	tion being returned	Permit fees for returned applications shall be
Submittal of an incomplete applies		a chi song rotanioa.	ithdrawn by the applicant shall be forfaited
Submittal of an incomplete applica forfeited. Permit fees for applicati	ons being processed by the d	lepartment that are w	and awn by the applicant shall be forelied.

FACILITY NAME Trenton Municipal Utilit	ties		PERMI	т NO. 0039748	3			OUTFA	LL NO.		
PART D – EXPANDE					, 						
17. EXPANDED E											
Refer to the APPLICA	TION OVE	RVIEW to	o determi	ne wheth	er Part D	applies t	o the trea	tment wo	rks.		
If the treatment works pretreatment program following pollutants. F include information of analysis conducted us identifying, and measu Part 136 and other ap the blank rows provide data must be based of	, or is othe Provide the combined sing 40 CFF uring the co propriate C ad below at	rwise requ indicated sewer ove R Part 136 oncentratio A/QC rec ny data vo	uired by the effluent for erflows in 6 method ons of po guirement ou may have	he permi testing in this sect s. The fa llutants. ts for stat ave on p	tting auth formation cion. All in acility sha In additio ndard me collutants i	ority to pr for each nformatio II use suf n, this da thods for not specif	ovide the n outfall the n reported ficiently set ta must co analytes i fically liste	data, the hrough v I must be ensitive a omply wit not addre d in this f	n provide eff vhich efflue based on da nalytical met h QA/QC rec ssed by 40 (form. At a m	fluent testing da nt is discharge ata collected thr thods for detecti juirements of 40 CFR Part 136. I inimum, effluent	d . Do n ough ing,) CFR indicate
Outfall Number (Comp	olete Once	for Each	Outfall Di	ischargin	g Effluen	t to Wate	rs of the S	state.)			
	MAXIN		Y DISCH	IARGE		AVERAG	E DAILY [DISCHAF	RGE	ANALYTICAL	
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	METHOD	ML/MI
METALS (TOTAL RECO	OVERABLE)), CYANIDI	E, PHENO	LS AND I	HARDNES	is					
ALUMINUM									•		
ANTIMONY											
ARSENIC											
BERYLLIUM											
CADMIUM											
CHROMIUM III											
CHROMIUM VI											
COPPER	0.005	mg/L			0.0025	mg/L			4	EPA 200.8	0.001
IRON											
LEAD	0.004	mg/L			0.0013	mg/L			4	EPA 200.8	0.001
MERCURY											
NICKEL											
SELENIUM											
SILVER											
THALLIUM											
ZINC	0.075	mg/L			0.058	mg/L.	s *		4	EPA 200.8	0.001
CYANIDE											
TOTAL PHENOLIC COMPOUNDS											
HARDNESS (as CaCO3)	248	mgeq/L			152	mgeq/L			4	SM 2340 B	16.5
VOLATILE ORGANIC O	COMPOUND	S							1	T	
ACROLEIN											
ACRYLONITRILE											
BENZENE											
BROMOFORM											
CARBON TETRACHLORIDE											

FACILITY NAME Trenton Mu	nicipal Ut	ilities WV	V MO-	г NO. 0039	9748			OUTF	all no. 001		
PART D – EXPANDED) EFFLUE	NT TES	TING DA	ΓА				•			
17. EXPANDED EF	FLUENT	TESTING	DATA								
Complete Once for Eac	ch Outfall	Discharg	ing Efflue	ent to Wa	ters of the	e State					
	MAXIM	MAXIMUM DAILY DISCHARGE				VERAG	E DAILY I	DISCHA	RGE	ANALYTICAL	
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	METHOD	
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-											
TRICHLORETHYLENE											
VINYL.CHLORIDE											1
		L	I	L	1	I	1	I	I	<u> </u>	1
				T	1						1
P-CHLORO-M-CRESOL			1								
2-CHLOROPHENOL											
2,4-DICHLOROPHENOL											
2,4-DIMETHYLPHENOL			-							<u> </u>	
4,6-DINITRO-O-CRESOL											
2,4-DINITROPHENOL											
2-NITROPHENOL			<u> </u>			ļ					
4-NITROPHENOL									1		

FACILITY NAME Trenton Mu	nicipal Ut	ilities WV	V PERMI	T NO. 0039	9748			OUTFA	UL NO. 001		
PART D – EXPANDED				ТА				_			
17. EXPANDED EFF						:				<u> </u>	
Complete Once for Eac	h Outfall	Discharg	ing Efflue	ent to Wa	ters of the	e State.					
	MAXIN	IUM DAIL	Y DISCH	IARGE	A	VERAGE	E DAILY [DISCHAF	RGE	ANALYTICAL	141 15 400 1
POLLUTANT	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	No. of Samples	METHOD	ML/MDL
PENTACHLOROPHENOL											
PHENOL											
2,4,6-TRICHLOROPHENOL											
BASE-NEUTRAL COMPO	DUNDS				,						
ACENAPHTHENE											
ACENAPHTHYLENE											
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											

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FACILITY NAME Trenton Muni	cipal Utilit	ies WWT	PERMIT	NO. 00397	748			OUTFAL	.L NO. 001		
PART D – EXPANDED E				<u> </u>							
17. EXPANDED EFFL			********								
Complete Once for Each										I	[
POLLUTANT	MAXIM Conc.	UM DAIL Units	Mass	Units	Conc.	AVERAG	Mass	Units	No. of Samples	ANALYTICAL METHOD	ML/M
2,4-DINITRO-TOLUENE					-						
2,6-DINITRO-TOLUENE											
1,2-DIPHENYL-HYDRAZINE	-										
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											
PYRENE											
1,2,4-TRICHLOROBENZENE											
Use this space (or a sepa	arate shee	et) to prov	ide infor	mation or	n other po	ollutants r	not specifi	ically liste	ed in this form	n.	
Chloride	282	mg/L			224	mg/L			4	EPA 300.0	5.0
Sulfate	132	mg/L			103	mg/L			4	EPA 300.0	1.
		·									
		·····							-		
		:									
			1								

AKE ADDITIONAL COPIES OF THIS FOR			
ACILITY NAME Trenton Municipal Utilities WWT	регміт no. MO - 0039748	OUTFALL NO.	01
PART E – TOXICITY TESTING DATA			
8. TOXICITY TESTING DATA			
Refer to the APPLICATION OVERVIEW to de	termine whether Part E applie	es to the treatment works.	
Publicly owned treatment works, or POTWs, r			results of whole effluent toxicity
 ests for acute or chronic toxicity for each of th A. POTWs with a design flow rate gree B. POTWs with a pretreatment progra C. POTWs required by the permitting At a minimum, these results muspecies (minimum of two species prior to the application, provide on the range of receiving water information reported must be b addition, this data must comply standard methods for analytes If EPA methods were not used. 	he facility's discharge points. ater than or equal to 1 million am (or those that are required authority to submit data for the ust include quarterly testing for es), or the results from four test d the results show no apprecia d dilution. Do not include informated ased on data collected throug with QA/QC requirements of not addressed by 40 CFR Para report the reason for using all below, they may be submitted application overview for direction	gallons per day to have one under 40 CFR Part ese parameters r a 12-month period within the p sts performed at least annually able toxicity, and testing for acu mation about combined sewer of h analysis conducted using 40 C 40 CFR Part 136 and other app t 136. ternative methods. If test summ d in place of Part E. If no biomo- ons on which other sections of	403) hast one year using multiple in the four and one-half years te or chronic toxicity, depending overflows in this section. All CFR Part 136 methods. In ropriate QA/QC requirements fo maries are available that contain ponitoring data is required, do not
Complete the following chart for the last three hree tests are being reported.			Copy this page if more than
	Most Recent	2 ND Most Recent	3 RD Most Recent
A. Test Information	Most Recont		
Test Method Number	EPA-821-R-02-012	EPA-821-R-02-012	EPA-821-R-02-012
Final Report Number	17-0521	16-0976	15-0673
Outfall Number	001	001	001
Dates Sample Collected	06/20/17	8/30/2016	6/17/15
Date Test Started	06/21/17	8/31/2016	6/18/15
Duration	48 hours	48 hours	48 hours
3. Toxicity Test Methods Followed		•	
Manual Title	EPA-821-R-02-012	EPA-821-R-02-012	EPA-821-R-02-012
Edition Number and Year of Publication			
Page Number(s)			
C. Sample collection method(s) used. For m	ultiple grab samples, indicate	the number of grab samples us	ed
24-Hour Composite	1	1	1
Grab			
D. Indicate where the sample was taken in re	elation finfection (Check a		
Before Disinfection			
After Disinfection		<u> </u>	
After Dechlorination			
E. Describe the point in the treatment proces		Effluent	Effluent
Sample Was Collected: Indicate whether the test was intended to	Effluent		
Chronic Toxicity			
Acute Toxicity		 	
G. Provide the type of test performed			1 •
	7		
Static			
Static Static-renewal			
Static Static-renewal Flow-through	er, specify type: if receiving w	ater, specify source	
Static Static-renewal	er, specify type; if receiving w	ater, specify source	

0000740	OUTFALL NO.)1
MO- 5000110		
Λ		
	Second Most Recent	Third Most Recent
		N/A
IN/A	IN/A	
0.23 %		
a whether narameter meets	test method specifications)	
		7.6
		N/A
		24.3 deg C
		<0.1 mg/L
		8.1 mg/L
0.2 mg/L	[0.1 mg/L	10.1 mg/c
100%	07%	100%
		>100%
		N/A
		100%
		N/A
JIN/A	IN/A	
NUA.	N1/A	N/A
		N/A
		N/A
		N/A N/A
N/A	N/A	IN/A
		Vaa
Yes	Yes	Yes
Yes	Yes	Yes
6/21/17	8/31/2016	6/17/15
duction evaluation?	Yes 🖌 No	
mation, or information regar	ding the cause of toxicity, withir	n the past four and one-half
submitted to the permitting a	authority and a summary of the	results.
END OF PAF		
	N/A rations in the test series 12.5% 6.25% rations in the test series 7.8 N/A 24.4 deg C <0.1 mg/L	MO- 0039748 00 I) Most Recent Second Most Recent /'natural" or type of artificial sea salts or brine used. N/A N/A N/A rations in the test series 12.5% 6.25% 6.25% rations in the test series 7.8 N/A N/A N/A N/A 12.5% 6.25% 6.25% 100% 7.8 7.8 N/A N/A 24.4 deg C 24.4 deg C <0.1 mg/L

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MAK	E ADDITIONAL COPIES OF THIS FOR	M FOR EACH OUTFAL	L.			
FACILIT	Trenton Municipal Utilities WWT	РЕRMIT NO. MO- 0039748		DUTFALL NO. 001		- 10-20-20-20-20-20-20-20-20-20-20-20-20-20
PAR	F – INDUSTRIAL USER DISCHARGE	S AND RCRA/CERCLA	WASTES	· · · · · · · · · · · · · · · · · · ·		,
Refer	Refer to the APPLICATION OVERVIEW to determine whether Part F applies to the treatment works.					
19.	GENERAL INFORMATION					
19.1	Does the treatment works have, or is i ☑ Yes □ No	subject to, an approved	l pretreatment program?	?		
19.2	Number of Significant Industrial Usersfollowing types of industrial users thatNumber of non-categorical SIUs1Number of CIUs0			Provide the number	r of each	n of the
20.	INDUSTRIES CONTRIBUTING MORE SIGNIFICANT INDUSTRIAL USERS I		THE ACTUAL FLOW	TO THE FACILITY (OR OTH	ER
	ly the following information for each SIU ested for each. Submit additional pages		lischarges to the treatm	ent works, provide tl	he inforn	nation
MAILIN	G ADDRESS		CITY	s	STATE	ZIP CODE
20.1	Describe all of the industrial processes	that affect or contribute	to the SIU's discharge			I
20.2	Describe all of the principle processes	and raw materials that a	affect or contribute to the	e SIU's discharge.		
20.2	Principal Product(s):			0		
	Raw Material(s):					
20.3	Flow Rate a. PROCESS WASTEWATER FLOW collection system in gallons per da gpd Conti	ay, or gpd, and whether f	age daily volume of pro he discharge is continu ermittent	cess wastewater dis ous or intermittent.	schargeo	l into the
	b. NON-PROCESS WASTEWATER F the collection system in gallons pe gpd ☐ Conti	er day, or gpd, and wheth	e average daily volume her the discharge is con ermittent	of non-process was tinuous or intermitte	tewater nt.	discharged into
20.4	Pretreatment Standards. Indicate whe	ther the SIU is subject to	o the following:			
	a. Local Limits	Yes	🔲 No			
	b. Categorical Pretreatment Standar	ds 🔲 Yes	No			
	If subject to categorical pretreatment s	tandards, which categor	y and subcategory?			
20.5	(e.g., upsets, interference) at the treat ☐ Yes ☐ No			SIU caused or contril	buted to	any problems
	If Yes, describe each episode					
		,				Deve 45

780-1805 (09-16)

	E ADDITIONAL COPIES OF THIS FO					
	ry NAME ton Municipal Utilities WWTP	PERMIT NO. MO- 0039748	OUTFALL NO. 001			
PAR	PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES					
21.	RCRA HAZARDOUS WASTE RECE	IVED BY TRUCK, RAIL, OR DEDICATED PIF	PELINE			
21.1						
21.2	Method by which RCRA waste is rece	ived. (Check all that apply)				
21.3	Waste Description					
	EPA Hazardous Waste Number	Amount (volume or mass)	Units			
22.	CERCLA (SUPERFUND) WASTEWA REMEDIAL ACTIVITY WASTEWAT	TER, RCRA REMEDIATION/CORRECTIVE	ACTION WASTEWATER, AND OTHER			
22.1						
		ed information for each current and future site				
22.2	Waste Origin. Describe the site and expected to originate in the next five	type of facility at which the CERCLA/RCRA/or years).	otner remedial waste originates (or is			
22.3	List the hazardous constituents that a known. (Attach additional sheets if n		Included data on volume and concentration, if			
22.4	Waste Treatment					
	a. Is this waste treated (or will it be tr ☐ Yes	eated) prior to entering the treatment works?				
	If Yes, describe the treatment (provide information about the removal efficiency):					
	b. Is the discharge (or will the discharge be) continuous or intermittent?					
	If intermittent, describe the discharge schedule:					
		เขาชุด อัตาอินนิด.				
1						
		END OF PART F				
		W TO DETERMINE WHICH OTHER PARTS	OF FORM B2 YOU MUST COMPLETE. Page 16			
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	IONAL COPIES OF THIS	FORM FOR EACH OUTFALL		
FACILITY NAME	ipal Utilities WWTP	регміт NO. MO- 0039748	OUTFALL NO.	
	-			
	MBINED SEWER SYSTE			
Refer to the A	PPLICATION OVERVIEW	to determine whether Part G applies	to the treatment works.	
23. GENER	AL INFORMATION			
23.1 System	Map. Provide a map ind	icating the following: (May be include	d with basic application information.)	
A.	All CSO Discharges.			
В.	Sensitive Use Areas	Potentially Affected by CSOs. (e.g., b	eaches, drinking water supplies, shellfish beds, se	nsitive
		nd Outstanding Natural Resource Wa		
C.	Waters that Support 1	hreatened and Endangered Species	Potentially Affected by CSOs.	
23.2 System	Diagram , Provide a diad	gram, either in the map provided abov	e or on a separate drawing, of the Combined Sew	ver
	on System that includes the			
А.	Locations of Major Se	wer Trunk Lines, Both Combined and	l Separate Sanitary.	
В.	Locations of Points w	here Separate Sanitary Sewers Feed	into the Combined Sewer System.	
0		r Off-Line Storage Structures.		

C.	Locations	of In-Line	or Off-Line	Storage	Sti

- Locations of Flow-Regulating Devices. D.
- E. Locations of Pump Stations.

Percent of collection system that is combined sewer 23.3

23.4 Population served by combined sewer collection system

Name of any satellite community with combined sewer collection system 23.5

24.	O OUTFALLS. COMPLETE THE FOLLOWING ONCE FOR EACH CSO DISCHARGE POINT
24.1	scription of Outfall

a. Outfall Number

b. Location

24.2 CSO Events

Hours

b.

C.

c.	Distance from Shore (if applicable)	ft	
d.	Depth Below Surface (if applicable)	ft	

	/
Which of the following were	e monitored during the last year for this CSO?
🔲 Rainfall	CSO Pollutant Concentrations

	CSO Flow Volume	Receiving Water Quality
f.	How many storm events we	re monitored last year?

oplicable) ft	
pplicable) ft	
re monitored during the last year for this CSO?	
CSO Pollutant Concentrations	$\Box cs$
Receiving Water Ouglity	

e. Which of the following were r	nonitored during the last y CSO Pollutant Co		o? □ cso	
☐ Rainfall ☐ CSO Flow Volume	Receiving Water			
f. How many storm events wer	e monitored last year?	-		
CSO Events				
a. Give the Number of CSO Ev	Events	🗌 Actual		

У		
Events	Actual	Approximate
	Give the Ave	rage Duration Per CSO Event
	Actual	Approximate
	Give the Ave	rage Volume Per CSO Event

inches of rainfall

Actual

Approximate

d. Give the minimum rainfall that caused a CSO event in the last year 24.3 Description of Receiving Waters a. Name of Receiving Water

Million Gallons

b. Name of Watershed/River/Stream System

c. U.S. Soil Conservation Service 14-Digit Watershed Code (If Known)

d. Name of State Management/River Basin

e. U.S. Geological Survey 8- Digit Hydrologic Cataloging Unit Code (If Known)

24.4 CSO Operations

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shellfish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable state water quality standard.)

		END OF PART G	
REFER TO THE APPLICATION O	DVERVIEW TO DETE	RMINE WHICH OTHER PARTS OF	FORM B2 YOU MUST COMPLETE.
780-1805 (09-16)		· ·	Page 1

State of Missouri Department of Natural Resources NATIONAL POLLUTARY DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

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Dep. of Natural Resources (REGIONAL OFFICE) Northeast Regional Office 1709 Prospect Dr. Macon, MO 63552-2602 6603858000 6603858000 (fax)

									6603858)90 (fax)		
AME: Trenton Mun ADDRESS: 98 Southwest	icipal Utilities Ash Lane	WWTP		MO0039748								
TRENTON,				ERMIT NUMB	ER DISCHARGE	NUMBER						
				AR MO DA	Y YEAR M							
			FROM 201	7 12 01	TO 2017 12	2 31			NOTE: READ PERMI BEFORE CON	T AND GENERAL IP IPLETING THIS FOR	STRUCTIONS	
Paranieter		M	ASS	Unit	co	ONCENTRATI	N	Unit	FREQUENCY OF ANALYSIS		LAB CODE	
OD, 5-day, 20 deg. C (00310)	REPORTD	*****	****		****	12	7		Weekly	24 Hour Composite		
tage Type: End of Pipe	REORMNT	****	*****	-		Weekly	Monthly	mg/L	Weekly	24 Hour		
				_		Average: 45	Average: 30			Composite Total		
low, in conduit or thru treatment lant (50050)	REPORTD	1.37	1.17	Mgal/d	*****	*****	****	4	Daily	Measured		
tage Type: End of Pipe	REQRMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Require		•••••	*****	*****		Daily	Total Measured	i	
litrogen, ammonia total (as N)	REPORTD	****	****		0.592	*****	0.192	_	Weekly	Grab	1	
00610)	REQRMNT	*****	*****		Daily Maximum : 10.4	*****	Monthly Average : 3.7	mg/L	Weekly	Grab		
tage Type: End of Pipe Dil and grease (soxhlet extr.) tot.	REPORTD	*****	*****		1.1	****	0.7		Monthly	Grab		
00550)	REQRMNT	****	*****		Daily	*****	Monthly	mg/L	Monthly	Grab	1	
tage Type: End of Pipe					Maximum : 15		Average: 10	<u> </u>				
H (00400)	REPORTD	****	*****	_	6.5	*****	7.1	SU	Weekly	Grab Grab		
tage Type: End of Pipe otal Suspended Solids (TSS)	REQRMNT	. ****	*****	· ·	Minimum : 6.0		Maximum : 9.0	· 	Weekly	24 Hour		
00530)		****	****		****	16	12	mg/L	Weekly	Composite	· ·	
tage Type: End of Pipe	REQRMNT	*****	****		*****	Weekly Average: 45	Monthly Average : 30	, in the second se	Weekly	24 Hour Composite		
ENERAL PERMIT REQUIREMENTS OR C	OMMENTS:											
ARAMETER-SPECIFIC COMMENTS:		ter to an the set		a mith a castan d	winged to assure that on	dified account prop	rly eather and evaluat	e the informatio	on submitted. Based on m	y inquiry of the persor	or persons who	
anage the system, or those persons directly re- in imprisonment for knowing violations.	ponsible for gathe	ring the information, the informati	ion submitted is, to the best of	my knowledge and	i belief, true, accurate, ar	id complete. I am awa	re that there are signifi	cant penalties 1	for submitting false inform	nation, including the p	ossibility of fine	
a approximent for knowing routiens.		1 11.4.12	OPERAT	FOR IN RES	PONSIBLE CHA	RGE		6539				
	TYPED C	bb Hutchinson OR PRINTED NAME			CERTIFICATE NUMBER							
PRINCIPAL E	XECUTIVE	OFFICER OR AUTHO	RIZED AGENT		TELEP	HONE			660-359-3801			
TYPED OR PRINTED	NAME		SIGNATURE					Date			Page 1	
JAME: Trenton Municip ADDRESS: 98 Southwest As TRENTON, M	h Lane	, ip	PERM	00039748 MIT NUMBER MONITO	INF R DISCHARGE NU RING PERIOD							
			FROM 2017		TO 2017 12	31		NO	TE: READ PERMIT AT BEFORE COMPLI	ND GENERAL INSTI TING THIS FORM.	NUCTIONS	
D	1	MASS		nit	CONCE	NTRATION	Т			SAMPLE TYPE		
Parameter	REPORTD								OF ANALYSIS	24 Hour	CODE	
BOD, 5-day, 20 deg. C (00310)			****	*****		491		mg/L	Monthly	Composite	4	
tage Type: Influent	REQRMN	****	*****	*****	***** Mon	thly Average : N Required	Ionitoring		Monthly	24 Hour Composite		
Fotal Suspended Solids (TSS) 00530)	REPORTD	*****	*****	****	****	176			Monthly	24 Hour Composite		
-	REQRMN	*****	*****		++++ Mon	thly Average : M	fonitoring	mg/L	Monthly	24 Hour	7	
stage Type: Influent SENERAL PERMIT REQUIREMENTS DR	COMMENTS:	<u> </u>		<u> </u>	L	Required	I	l		Composite		
BUTFALL-SPECIFIC COMMENTS::												
certify under penalty of law that this docume nanage the system, or those persons directly re	nt and all attachme sponsible for gath	nts were prepared under my direc ering the information, the informa	tion or supervision in accordant tion submitted is, to the best o	nce with a system o Fmy knowledge ar	fesigned to assure that qu id belief, true, accurate, a	ialified personnel prop ind complete. I am aw	erly gather and evalua are that there are signi	te the informat ficant penalties	ion submitted. Based on r for submitting false infor	ny inquiry of the perso mation, including the	n or persons who possibility of fine	
nd imprisonment for knowing violations.	-				PONSIBLE CHA							
		ob Hutchinson					CEDTIE	6539 ICATE NU	MREP			
PRINCIPAL F		OR PRINTED NAME OFFICER OR AUTHO	RIZED AGENT		TELEP	HONE		ICATEIN	660-359-3801			
TYPED OR PRINTEI	NAME		SIGNATURE	LUUR				Date				
					1						Page 2	
PERMITTEE NAME/ADDRESS			NATIONAL POLLU	epartment of	of Missouri I Natural Resourc RGE ELIMINATIO TORING REPORT	ON SYSTEM (NP	DES)	v	(REGIO Northeas 1709 Pros	MO 63552-2602 00		
NAME: ADDRESS:				100039748 MIT NUMBER	SM2 A DISCHARGE N							

Trenton Municipal 98 Southwest Ash TRENTON,MO	Lane	TP	FRO		MONITORING PERIOD MO DAY YEAR MO 12 01 TO 2017 12	NOTE:	READ PERMIT AND G BEFORE COMPLETING		UCTIONS		
Parameter		M	ASS	Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO3) (00900)	REPORTD	*****	*****		113	****	113		Monthly	Grab	
	REQRMNT		•••••]	Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	mg/L	Monthly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS: PARAMETER-SPECIFIC COMMENTS:

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isonment for knowing violations.						
	OPERATOR IN	RESPONSIBLE CHARGE				
Bob Hutchins	n	6539				
TYPED OR PRINTE	D NAME	CERTIFICATE NUMBER				
	BOD FULCIUMSON TYPED OR PRINTED NAME PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE 660-359-3801				
TYPED OR PRINTED NAME	SIGNATURE		Date			
				Pag		

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State of Missouri Department of Natural Resources NATIONAL POLLUTARY DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: ADDRESS:

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Trenton Municipal Utilities WWTP 98 Southwest Ash Lane TRENTON, MO 64683

	M	10003	9748		001 A								
	PER	MITN	UMBEF	<u>ا</u>	DISCHARGE NUMBER								
		MONITORING PERIOD											
	YEAR	мо	DAY	1	YEAR	МО	DAY						
FROM	2018	01	01	то	2018	01	31						

Dep. of Natural Resources (REGIONAL OFFICE) Northeast Regional Office 1709 Prospect Dr. Macon, MO 635552-2602 6603858000 6603858090 (fax)

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		MA	ASS	Unit	C	ONCENTRATI	ON	Unit	FREQUENCY OF ANALYSI		LAB CODE		
BOD, 5-day, 20 deg. C (00310)	REPORTD	****	****		*****	7 4			Weekly	24 Hour Composite			
Stage Type: End of Pipe	REQRMNT	****	*****		*****	Weekly Average : 45	Monthly Average : 30	mg/L	Weekly	24 Hour Composite			
Flow, in conduit or thru treatment plant (50050)	REPORTD	1.69	1.32		*****	****	****		Daily	Total Measured			
Stage Type: End of Pipe	REQRMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required	Mgal/d	••••	****	*****	1	Daily	Total Measured			
Nitrogen, ammonia total (as N)	REPORTD	****	*****		0.996	****	0.504		Weekly	Grab			
(00610) Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum : 10.4	•••••	Monthly Average : 3.7	mg/L	Weekly	Grab			
Oil and grease (soxhlet extr.) tot.	REPORTD	****	*****		1.2	****	0.8		Monthly	Grab			
(00550) Stage Type: End of Pipe	REQRMNT	****	*****		Daily Maximum ; 15	*****	Monthly Average : 10	mg/L	Monthly	Grab			
pH (00400)	REPORTD	****	****		6.0	****	7,1		Weekly	Grab			
Stage Types End of Dine	REQRMNT	*****	*****	1	Minimum: 6.0	*****	Maximum : 9.0	SU	Weekly	Grab			
Stage Type: End of Pipe Total Suspended Solids (TSS)	REPORTD	****	*****		*****	11	9		Weekly	24 Hour			
(00530)	REQRMNT	****	*****	1	*****	Weekly	Monthly	mg/L	Weekly	Composite 24 Hour Composite			
Stage Type: End of Pipe GENERAL PERMIT REQUIREMENTS OR CO OUTFALL-SPECIFIC COMMENTS: PARAMETER-SPECIFIC COMMENTS; Teerify under penalty of law that this document mange the system, or those persons directly resp	a a d all atta dan ta	ts were prepared under my directing the information, the information	on or supervision in accontance v on submitted is, to the best of my	with a system de knowledge and	signed to assure that qua	Average : 45	Average : 30	the informatio	n submitted. Based on n or submitting false infor	ny inquiry of the person s	or persons who usibility of fine		
and imprisonment for knowing violations.			OPERATO	R IN RESP	ONSIBLE CHA	RGE							
		b Hutchinson			6539 CERTIFICATE NUMBER								
PRINCIPAL EX		R PRINTED NAME OFFICER OR AUTHO		TELEPI	IONE	CERTIFIC	CATENU	660-359-3801					
TYPED OR PRINTED			SIGNATURE					Date					
			Den		f Missouri Natural Resource	c				latural Resources			
PERMITTEE NAME/ADDRESS			NATIONAL POLLUTAN	artment of l AT DISCHAP	Natural Resource	N SYSTEM (NPI	DES)		(REGIO Northeas 1709 Pros Macon, M 66038580	DNAL OFFICE) t Regional Office pect Dr. MO 63552-2602 00			
PERMITTEE NAME/ADDRESS NAME: Tenton Municipa ADDRESS: 98 Southwest Ash TRENTON, MC	Lane	TP	NATIONAL POLLUTAN DISCHAP MOO PERMIT	artment of 1 AT DISCHAI RGE MONIT RGE MONIT NUMBER MONITOR	Natural Resource RGE ELIMINATIO ORING REPORT (INF R DISCHARGE NU	N SYSTEM (NPI DMR)	9E\$)		(REGIC Northeas 1709 Pros 66038550 66038550 66038550 66038550 66038550	DNAL OFFICE) I Regional Office pset Dr. MO 63552-2602 00 00 (fax) ND OEMERAL INSTRU ETING THIS FORM.	JCTIONS		
NAME: Trenton Municipa ADDRESS: 98 Southwest Ash	Lane	TP MASS	NATIONAL POLLUTAN DISCHAP	artment of 1 NT DISCHAI RGE MONIT 0039748 FNUMBER MONITOR 10 DAY 1 01	Natural Resource GE ELIMINATIO ORING REPORT (DISCHARGE NU ING PERIOD VEAR MO 2018 01	N SYSTEM (NPI DMR) MBER DAY	DES)	1 1210	(REGIC Northeas 1709 Pros 66038550 66038550 66038550 66038550 66038550	DNAL OFFICE) (Regional Office pect Dr. 40 63552-2602 90 90 (fax) ND OENERAL INSTRU- ETING THIS FORM. SAMPLE TYPE	LAB CODE		
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NAME: Trenton Municipa ADDRESS: 98 Southwest Ash TRENTON, MC Parameter	1 Lane D 64683	MASS	RATIONAL POLLUTAN DISCHAP PERMIT FROM 2018 0	artment of i YT DISCHAI RGE MONIT 1039748 NUMBER MONITOR 10 DAY 1 01 -	Natural Resource GGE ELIMINATIO ORING REPORT (INF R DISCHARGE NU RING PERIOD VEAR MO TO 2018 01 CONCE *****	N SYSTEM (NPI DMR) MBER DAY 31 NTRATION		1 1210	(REGIC Northeas 1709 Pros 66038580 66038580 E: READ PERMIT A DEFORE COMPL FREQUENCY DF ANALYSIS	DNAL OFFICE) I Regional Office poet Dr. 40 63552-2602 00 00 (fax) ND OENERAL INSTRU- ETING THIS FORM. SAMPLE TYPE 24 Hour Composite 24 Hour Composite	LAB		
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NAME: Trenton Municipa ADDRESS: 98 Southwest Ash TRENTON, MC Parameter BOD, 5-day, 20 deg. C (00310) Stage Type: Influent Total Suspended Solids (TSS) (00530) Stage Type: Influent Generat PERMIT REQUIREMENTS OR C OUTFALL-SPECIFIC COMMENTS: Freating under penalty of Taw that this documents	Lane) 64683 REPORTD REQRMNT REPORTD REQRMNT OMMENTS:	MASS	NATIONAL POLLUTA DISCHAP DISCHAP FROM FROM Unit	artment of 1 eT DISCHAT GE MONIT NUMBER MONTOR O DAY 1 01 0 ***** *****	Natural Resource GE ELIMINATIO GRING REPORT (INF R DISCHARGE NU ING PERIOD VEAR MO 2018 01 CONCE ***** ***** ***** Mont ***** ***** Mont	N SYSTEM (NPI DMR) MBER DAY 31 NTRATION 480 hly Average : N Required 260 hly Average : N Required affifed personnel prop al complete. 1 an away	Ionitoring Ionitoring	Unit (mg/L -	(REGIC Northeas 1709 Pros 66038580 66038580 E: READ PERMIT A DEFORE COMPL FREQUENCY DF ANALYSIS Monthly Monthly Monthly Monthly In submited. Based on	NAL OFFICE) I Regional Office pect Dr. 406 63552-2602 90 (fax) ND OENERAL INSTRIC FING THIS FORM. SAMPLE TYPE 24 Hour Composite 24 Hour Composite 24 Hour Composite 24 Hour Composite 24 Hour Composite 24 Hour Composite	LAB CODE		
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Dep. of Natural Resources (REGIONAL OFFICE) Northeast Regional Officé 1709 Prospect Dr. Macon, MG 63552-2602 6603858000 6603858000 (fax)

State of Missouri Department of Natural Resources NATIONAL POLLUTARY DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: ADDRESS: MO0039748 SM2 A PERMIT NUMBER DISCHARGE NUMBER

Trenton Municipal 98 Southwest Ash TRENTON , MO	Lane	TP			MONITORING PERIOD]				
			FRO	M 2018	01 01 TO 2018 01	1 31	1	NOTE:	READ PERMIT AND G BEFORE COMPLETING		CTIONS
Parameter		M	ASS	Unit				Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO3) (00900)	REPORTD	*****	*****		188	***** 18			Monthly	Grab	
	REQRMNT	*****	*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	mg/L	Monthly	Grab	
OUTFALL-SPECIFIC COMMENTS:: PARAMETER-SPECIFIC COMMENTS: T certify under penalty of law that this document manage the system, or those persons directly resp and imprisonment for knowing violations.	and all attachment onsible for gather	ts were prepared under ing the information, th	my direction or supervi e information submitted	is, to the best o	f my knowledge and belief, true, accurat	e, and com	plete. I am aware that there are significa	he information so nt penalties for s	ubmitted, Based on my inc ubmitting false informatio	uiry of the person n, including the po	or persons who ssibility of fin-
				OPERA	TOR IN RESPONSIBLE CH	IARGE		(510			
		b Hutchinson				6539					
		R PRINTED NA		ODM		aprican	CERTIFIC		660-359-3801		
PRINCIPAL EX	ECUTIVE C	JFFICER OR A	UTHORIZED A	GENT	TELI	EPHON	t		000-339-3801		
TYPED OR PRINTED	NAME		SIGNAT	URE				Date			
											Page 3

State of Missouri Department of Natural Resources NATIONAL POLLUTANT DISCHARCE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: ADDRESS:

_ G

Trenton Municipal Utilities WWTP 98 Southwest Ash Lane TRENTON, MO 64683

	M	10003	9748		001 A					
	PER	MITN	UMBER	2 1	DISCHARGE NUMBER					
		1	MONIT	ORIN	G PERIC	D		٦		
	YEAR	мо	DAY	1	YEAR	мо	DAY			
FROM	2018	02	01] то	2018	02	28			

Dep. of Natural Resources (REGIONAL OFFICE) Northeast Regional Office 1709 Prospect Dr. Macon, MO 63552-2602 6603858000 6603858000 (fax)

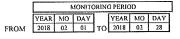
NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

SAMPLE LAB FREOUENCY MASS Unit CONCENTRATION Unit Parameter OF ANALYSIS ТҮРЕ CODE BOD, 5-day, 20 deg. C (00310) REPORTI 24 Hour ***** ***** ***** Weekly 5 4 Composite mg/L 24 Hour Weekly Monthly Stage Type: End of Pipe REQRMN ***** ***** Weekly ***** Average: 30 Composite Average: 4 Total REPORTE Flow, in conduit or thru treatment ***** ***** ***** Daily 2.38 1.45 Measured plant (50050) Mgal/d Total REQRMN Daily Maximum : Monthly Average : ***** ***** ***** Daily Measured Stage Type: End of Pipe Nitrogen, ammonia total (as N) Monitoring Required Monitoring Required ***** REPORTD 0.202 Weekly Grab 0.500 ***** (00610) Monthly Average: 3.7 me/L REORMN' Daily ***** ***** ***** Weekly Grab Maximum : 10.4 Stage Type: End of Pipe Oil and grease (soxhlet extr.) tot. REPORTD ***** Monthly Grab **** ***** 0.9 0.8 00550 REQRMN mg/L Daily Monthly ***** Monthly Grab ***** ***** Average: 10 Maximum: 15 Stage Type: End of Pipe pH (00400) REPORTD ***** Weekly Grab ***** ***** 6.5 7,0 SU REQRMN ***** ***** Minimum: 6.0 ***** Maximum: 9.0 Weekly Grab Stage Type: End of Pipe 24 Hour Total Suspended Solids (TSS) (00530) REPORTE ***** ***** ***** 18 12 Weekly Composite mg/L 24 Hour REORMN Weekiy Monthly ***** ***** ***** Weekly Composite Stage Type: End of Pipe Average Average : 30 GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS: PARAMETER-SPECIFIC COMMENTS: I certify under penalty of faw that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquity of the person or persons who manage the system or protocol and the person of the person or persons who manage the system or protocol and the person of the person of persons who manage the system or protocol and the person of the person of the person of the person of persons who manage the system or protocol and the person of the person OPERATOR IN RESPONSIBLE CHARGE 6539 Bob Hutchinson TYPED OR PRINTED NAME CERTIFICATE NUMBER 660-359-3801 TELEPHONE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NAME SIGNATURE Date Page 1 State of Missouri Dep. of Natural Resources Department of Natural Resources NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) (REGIONAL OFFICE) Northeast Regional Office PERMITTEE NAME/ADDRESS 1709 Prospect Dr. Macon, MO 63552-2602 6603858000 6603858090 (fax) Trenton Municipal Utilities WWTP 98 Southwest Ash Lane TRENTON, MO 64683 NAME MO0039748 INF R ADDRESS: PERMIT NUMBER DISCHARGE NUMBER MONITORING PERIOD YEAR MO DAY TO 2018 02 28 YEAR MO DAY 2018 02 01 FROM NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM. FREQUENCY OF ANALYSIS LAB SAMPLE TYPE CONCENTRATION Unit MASS Unit Parameter CODE 24 Hour REPORTD BOD, 5-day, 20 deg. C (00310) ***** ***** ***** ***** Monthly 336 Composite mg/L 24 Hour REQRMN Monthly Average : Monitoring Stage Type: Influent ***** ***** Monthly ***** Composite Required 24 Hour Total Suspended Solids (TSS) (00530) REPORTE ***** ***** **** **** 202 Monthly Composite mg/L Monthly Average : Monitoring 24 Hour REORMN ***** ***** ***** **** Monthly Composite Stage Type: Influent Required GENERAL PERMIT REQUIREMENTS OR COMMENTS: OUTFALL-SPECIFIC COMMENTS: PARAMETER-SPECIFIC COMMENTS: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, including the possibility of fine and being violations. OPERATOR IN RESPONSIBLE CHARGE 6539 **Bob Hutchinson** CERTIFICATE NUMBER TYPED OR PRINTED NAME 660-359-3801 TELEPHONE PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TYPED OR PRINTED NAME SIGNATURE Date Page 2 State of Missouri Den, of Natural Resources (REGIONAL OFFICE)

Department of Natural Resources NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS

NAME: ADDRESS: MO0039748 SM2 A PERMIT NUMBER DISCHARGE NUMBER (REGIONAL OFFICE) Northeast Regional Office 1709 Prospect Dr. Macon, MO 63552-2602 6603858000 6603858000 (fax) Trenton Municipal Utilities WWTP 98 Southwest Ash Lane TRENTON, MO 64683



NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		M	ASS	Unit	CON	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE		
Hardness, total (as CaCO3) (00900)	REPORTD	****	****		121	****	121		Monthly	Grab	
	REQRMNT		*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required	mg/L	Monthly	Grab	

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Concerning of pro-Concerning of pro-Concer OPERATOR IN RESPONSIBLE CHARGE 6539 CERTIFICATE NUMBER 660-359-3801 Bob Hutchinson TYPED OR PRINTED NAME PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE 1 TYPED OR PRINTED NAME SIGNATURE Date Page 3