

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-0028037

Owner: City of Nixa
Address: P.O. Box 395, Nixa, MO 65714

Continuing Authority: Same as above
Address: Same as above

Facility Name: Nixa Wastewater Treatment Facility
Facility Address: 972 Old Riverdale Road, Nixa, MO 65714

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

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.

January 1, 2016
Effective Date

Sara Parker Pauley, Director, Department of Natural Resources

September 30, 2020
Expiration Date

John Madros, Director, Water Protection Program

FACILITY DESCRIPTION (continued):

Outfall #001 – POTW – SIC #4952

The use or operation of this facility shall be by or under the supervision of a Certified “A” Operator.

Screening / grit and grease removal / influent pump station / oxidation ditches with anaerobic and anoxic zones / final clarifiers / tertiary filtration / biological-chemical phosphorus removal / UV disinfection / sludge holding tank / sludge dewatering / sludge composting / sludge and compost is land applied.

Design population equivalent is 40,000.

Design flow is 4 MGD.

Actual flow is 2 MGD.

Design sludge production is 1,317 dry tons/year.

Legal Description:	SW ¼, NE ¼, Sec. 30, T27N, R21W, Christian County
UTM Coordinates:	X= 475696, Y= 4096506
Receiving Stream and ID:	Finley Creek (P) (2352)
First Classified Stream and ID:	Finley Creek (P) (2352)
USGS Basin & Sub-watershed No.:	(11010002-0208)

Permitted Feature #SM1 – Instream Monitoring

Instream monitoring location – Upstream – See Special Condition #23

EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		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	composite**
Total Suspended Solids	mg/L		45	30	once/week	composite**
<i>E. coli</i> (Note 1)	#/100mL		630	126	once/week	grab
Ammonia as N (Apr 1 – Sep 30)	mg/L	4.5		1.4	once/week	grab
(Oct 1 – Mar 31)	mg/L	9.5		2.9	once/week	grab
Total Phosphorus	mg/L	*		0.5	once/month	grab
Aluminum, Total Recoverable	µg/L	*		*	once/month	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>FEBRUARY 28, 2016</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
Oil & Grease	mg/L	15		10	once/quarter****	grab
Total Nitrogen	mg/L	*		*	once/quarter****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>APRIL 28, 2016</u> .						
EFFLUENT PARAMETER(S)	UNITS	MINIMUM		MAXIMUM	MEASUREMENT FREQUENCY	SAMPLE TYPE
pH – Units ***	SU	6.0		9.0	once/week	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>FEBRUARY 28, 2016</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.
- *** Once each weekday means: Monday, Tuesday, Wednesday, Thursday, and Friday.
- **** pH is measured in pH units and is not to be averaged.
- ***** See table below for quarterly sampling requirements.

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

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).

OUTFALL #001	TABLE A-2 WHOLE EFFLUENT TOXICITY FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS						
	EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
			DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Acute Whole Effluent Toxicity (Note 2)	TU _a	*				once/year	composite**
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>MAY 28, 2016</u> .							
Chronic Whole Effluent Toxicity (Note 3)	TU _c	*				once/permit cycle	composite**
<u>WET TEST</u> REPORTS SHALL BE SUBMITTED <u>ONCE PER PERMIT CYCLE</u> ; THE FIRST REPORT IS DUE <u>MAY 28, 2019</u> .							

* Monitoring requirement only.

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

Note 2 – The Acute WET test shall be conducted once per year during the 1st, 2nd, 3rd, and 5th year of the permit cycle. See Special Condition #20 for additional requirements.

Note 3 –The Chronic WET test shall be conducted during the 4th year of the permit cycle. See Special Condition #21 for additional requirements.

TABLE B INFLUENT MONITORING REQUIREMENTS			
The facility is required to meet a removal efficiency of 85% or more as a monthly average. The monitoring requirements shall become effective on <u>January 1, 2016</u> , and remain in effect until expiration of the permit. To determine removal efficiencies, the influent wastewater shall be monitored by the permittee as specified below:			
SAMPLING LOCATION AND PARAMETER(S)	UNITS	MONITORING REQUIREMENTS	
		MEASUREMENT FREQUENCY	SAMPLE TYPE
Biochemical Oxygen Demand ₅	mg/L	once/month	composite**
Total Suspended Solids	mg/L	once/month	composite**
MONITORING REPORTS SHALL BE SUBMITTED <u>MONTHLY</u> ; THE FIRST REPORT IS DUE <u>FEBRUARY 28, 2016</u> .			

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

PERMITTED FEATURE #SM1	TABLE C INSTREAM MONITORING REQUIREMENTS					
	PARAMETER(S)	UNITS	DAILY MAXIMUM	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
The monitoring requirements shall become effective on <u>January 1, 2016</u> , and remain in effect until expiration of the permit.						
Total Phosphorus	mg/L	*		*	once/quarter*****	grab
Total Nitrogen	mg/L	*		*	once/quarter*****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>APRIL 28, 2016</u> .						

* Monitoring requirement only.
***** See table below for quarterly sampling

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

D. STANDARD CONDITIONS

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

E. SPECIAL CONDITIONS

1. This permit establishes final ammonia limitations based on Missouri’s current Water Quality Standard. On August 22, 2013, the U.S. Environmental Protection Agency (EPA) published a notice in the Federal Register announcing of the final national recommended ambient water quality criteria for protection of aquatic life from the effects of ammonia in freshwater. The EPA’s guidance, Final Aquatic Life Ambient Water Quality Criteria for Ammonia – Fresh Water 2013, is not a rule, nor automatically part of a state’s water quality standards. States must adopt new ammonia criteria consistent with EPA’s published ammonia criteria into their water quality standards that protect the designated uses of the water bodies. The Department of Natural Resources has initiated stakeholder discussions on how to best incorporate these new criteria into the State’s rules. A date for when this rule change will occur has not been determined. Also, refer to Section VI of this permit’s factsheet for further information including estimated future effluent limits for this facility. It is recommended the permittee view the Department’s 2013 EPA criteria Factsheet located at <http://dnr.mo.gov/pubs/pub2481.htm>.
2. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri’s Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri’s list of waters of the state not fully achieving the state’s water quality standards, also called the 303(d) list.
 - (d) Incorporate the requirement to develop a pretreatment program pursuant to 40 CFR 403.8(a) when the Director of the Water Protection Program determines that a pretreatment program is necessary due to any new introduction of pollutants into the Publicly Owned Treatment Works or any substantial change in the volume or character of pollutants being introduced.

E. SPECIAL CONDITIONS (continued)

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

3. All outfalls must be clearly marked in the field. This does not include instream monitoring locations.
4. Permittee will cease discharge by connection to a facility with an area-wide management plan per 10 CSR 20-6.010(3)(B) within 90 days of notice of its availability.
5. Report as no-discharge when a discharge does not occur during the report period. For instream samples, report as “no flow” if no stream flow occurs during the report period.
6. Water Quality Standards
 - (a) To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
 - (b) General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
 - (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
 - (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
 - (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
 - (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
 - (5) There shall be no significant human health hazard from incidental contact with the water;
 - (6) There shall be no acute toxicity to livestock or wildlife watering;
 - (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
 - (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.
7. Changes in existing pollutants or the addition of new pollutants to the treatment facility

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

 - (a) Any new introduction of pollutants into the POTW from an indirect discharger which would be subject to section 301 or 306 of CWA if it were directly discharging those pollutants; and
 - (b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
 - (c) For purposes of this paragraph, adequate notice shall include information on:
 - (1) the quality and quantity of effluent introduced into the POTW, and
 - (2) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.
8. 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) The permittee shall use one-half of the detection limit for the non-detect result when calculating monthly averages.
 - (e) See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
9. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
10. 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. If a modification of the monitoring frequencies listed in 10 CSR 20-9 is needed, the permittee shall submit a written request to the Department for review and, if deemed necessary, approval.

E. SPECIAL CONDITIONS (continued)

11. The permittee shall develop and implement a program for maintenance and repair of the collection system. The recommended guidance is the US EPA's Guide For Evaluating Capacity, Management, Operation, And Maintenance (CMOM) Programs At Sanitary Sewer Collection Systems (Document number EPA 305-B-05-002). The permittee shall report all bypasses and Sanitary Sewer Overflows (SSO) using the Sanitary Sewer Overflow/Facility Bypass Application, located at <http://dnr.mo.gov/modnrcag/>.

The permittee shall also submit a report to the Southwest Regional Office annually, by January 28th, for the previous calendar year. The report shall contain the following information:
 - (a) A summary of the efforts to locate and eliminate sources of excessive infiltration and inflow into the collection system serving the facility for the previous year.
 - (b) A summary of the general maintenance and repairs to the collection system serving the facility for the previous year.
 - (c) A summary of any planned maintenance and repairs to the collection system serving the facility for the upcoming calendar year. This list shall include locations (GPS, 911 address, manhole number, etc.) and actions to be taken.
12. 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.b. Bypasses are to be reported to the Southwest Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. Blending, which is the practice of combining a partially-treated wastewater process stream with a fully-treated wastewater process stream prior to discharge, is not considered a form of bypass. If the permittee wishes to utilize blending, the permittee shall file an application to modify this permit to facilitate the inclusion of appropriate monitoring conditions.
13. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
14. At least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain closed except when temporarily opened by; the permittee to access the facility, perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department. The gate shall be closed and locked when the facility is not staffed.
15. At least one (1) warning sign shall be placed on each side of the facility enclosure in such positions as to be clearly visible from all directions of approach. There shall also be one (1) sign placed for every five hundred feet (500') (150 m) of the perimeter fence. A sign shall also be placed on each gate. Minimum wording shall be SEWAGE TREATMENT FACILITY—KEEP OUT. Signs shall be made of durable materials with characters at least two inches (2") high and shall be securely fastened to the fence, equipment or other suitable locations.
16. 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.
17. An all-weather access road shall be provided to the treatment facility.
18. The discharge from the wastewater treatment facility shall be conveyed to the receiving stream via a closed pipe or a paved or rip-rapped open channel. Sheet or meandering drainage is not acceptable. The outfall sewer shall be protected against the effects of floodwater, ice or other hazards as to reasonably insure its structural stability and freedom from stoppage. The outfall shall be maintained so that a sample of the effluent can be obtained at a point after the final treatment process and before the discharge mixes with the receiving waters.
19. Land application of biosolids shall be conducted in accordance with Standard Conditions III and a Department approved biosolids management plan. Land application of biosolids during frozen, snow covered, or saturated soil conditions in accordance with the additional requirements specified in WQ426 shall occur only with prior approval from the Department.

E. SPECIAL CONDITIONS (continued)

20. Acute Whole Effluent Toxicity (WET) tests shall be conducted as follows:

SUMMARY OF ACUTE WET TESTING FOR THIS PERMIT					
OUTFALL	AEC	Acute Toxic Unit (TU _a)	FREQUENCY	SAMPLE TYPE	MONTH
#001	100%	*	once/year	24 hr. composite	any

* Monitoring requirement only.

DILUTION SERIES						
100%	50%	25%	12.5%	6.25%	(Control) 100% upstream, if available	(Control) 100% Lab Water, also called synthetic water

(a) Freshwater Species and Test Methods

- (1) 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 vertebrate species:
 - The fathead minnow, *Pimephales promelas* (Acute Toxicity Test Method 2000.0).
 And the following invertebrate species:
 - The daphnid, *Ceriodaphnia dubia* (Acute Toxicity Test Method 2002.0).
- (2) Chemical and physical analysis of an 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, synthetic laboratory control water may be used.
- (3) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.
- (4) Any and all chemical or physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% Effluent concentration in addition to analysis performed upon any other effluent concentration.
- (5) All chemical analyses shall be performed and results shall be recorded in the appropriate field of the report form. The parameters for chemical analysis include Temperature (°C), pH (SU), Conductivity (µmohs/cm), Dissolved Oxygen (mg/L), Total Residual Chlorine (mg/L), Un-ionized Ammonia (mg/L), Total Alkalinity (mg/L), and Total Hardness (mg/L).

(b) Reporting of Acute Toxicity Monitoring Results

- (1) WET test results shall be submitted to the Southwest Regional Office, or by eDMR, with the permittee's Discharge Monitoring Reports annually by May, 28. The submittal shall include:
 - i. A full laboratory report for all toxicity testing.
 - ii. Copies of chain-of-custody forms.
 - iii. The WET form provided by the Department upon permit issuance.
- (2) The report must include a quantification of acute toxic units (TU_a = 100/LC₅₀) reported according to the test methods manual chapter on report preparation and test review. The Lethal Concentration, 50 Percent (LC₅₀) is the toxic or effluent concentration that would cause death in 50 percent of the test organisms over a specified period of time.

(c) Permit Reopener for Acute Toxicity

In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include effluent limitations or permit conditions to address acute toxicity in the effluent or receiving waterbody, as a result of the discharge; or to implement new, revised, or newly interpreted water quality standards applicable to acute toxicity.

E. SPECIAL CONDITIONS (continued)

21. Chronic Whole Effluent Toxicity (WET) tests shall be conducted as follows:

SUMMARY OF CHRONIC WET TESTING FOR THIS PERMIT					
OUTFALL	AEC	Chronic Toxic Unit (TU _c)	FREQUENCY	SAMPLE TYPE	MONTH
#001	100%	*	once/permit cycle	24 hr. composite	any

* Monitoring only

Dilution Series						
100%	50%	25%	12.5%	6.25%	(Control) 100% upstream, if available	(Control) 100% Lab Water, also called synthetic water

(a) Freshwater Species and Test Methods

(1) 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 vertebrate species:

- The fathead minnow, *Pimephales promelas* (Survival and Growth Test Method 1000.0).
And the following invertebrate species:
- The daphnid, *Ceriodaphnia dubia* (Survival and Reproduction Test Method 1002.0).

(2) Chemical and physical analysis of an 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, synthetic laboratory control water may be used.

(3) Test conditions must meet all test acceptability criteria required by the EPA Method used in the analysis.

(4) Any and all chemical or physical analysis of the effluent sample performed in conjunction with the WET test shall be performed at the 100% Effluent concentration in addition to analysis performed upon any other effluent concentration.

(5) All chemical analyses shall be performed and results shall be recorded in the appropriate field of the report form. The parameters for chemical analysis include, but are not limited to Temperature (°C), pH (SU), Conductivity (µMols), Dissolved Oxygen (mg/L), Total Residual Chlorine (mg/L), Un-ionized Ammonia (mg/L), Total Alkalinity (mg/L), and Total Hardness (mg/L).

(b) Reporting of Chronic Toxicity Monitoring Results

(3) WET test results shall be submitted to the Southwest Regional Office, or by eDMR, with the permittee's Discharge Monitoring Reports by May, 28, 2019. The submittal shall include:

- i. A full laboratory report for all toxicity testing.
- ii. Copies of chain-of-custody forms.
- iii. The WET form provided by the Department upon permit issuance.

(4) The report must include a quantification of chronic toxic units (TU_c = 100/IC₂₅) 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 (IC₂₅) is the toxic or effluent concentration that would cause 25 percent reduction in mean young per female or in growth for the test populations.

(c) Permit Reopener for Chronic Toxicity

In accordance with 40 CFR Parts 122 and 124, this permit may be modified to include effluent limitations or permit conditions to address chronic toxicity in the effluent or receiving waterbody, as a result of the discharge; or to implement new, revised, or newly interpreted water quality standards applicable to chronic toxicity.

22. Discharge Monitoring Reports

(a) All reports and results required to be submitted by the permit, excluding 24-hr. bypass reporting, must be submitted to the Department via the electronic Discharge Monitoring Report Submission System (eDMR). In regards to Standard Conditions Part I, Section B, #7, the eDMR data reporting system is the only Department approved reporting method for this permit.

(b) To access the eDMR data reporting system, use the following link in your web browser: <https://edmr.dnr.mo.gov/edmr/E2/Shared/Pages/Main/Login.aspx>.

E. SPECIAL CONDITIONS (continued)

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. 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. 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.
 - (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:
 - If turbidity in the stream increases notably; or
 - If rainfall over the past two weeks exceeds 2.5 inches or exceeds 1 inch in the last 24 hours
 - (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.
24. 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 shall minimize the release of pollutants in stormwater from the facility to the waters of the state. The SWPPP shall be developed in consultation with the concepts and methods described in the following document: Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators, (Document number EPA 833-B-09-002) published by the United States Environmental Protection Agency (USEPA) in February 2009.
- (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 once per month routine site inspection.
 - i. The monthly routine inspection shall be documented in a brief written report, which shall include:
 - i. The person(s) conducting the inspection.
 - ii. The inspection date and time.
 - iii. Weather information for the day of the inspection.
 - iv. Precipitation information for the entire period since the last inspection.
 - v. Description of the discharges observed, including visual quality of the discharges (sheen, turbid, etc.).
 - vi. Condition of BMPs
 - vii. If BMPs were replaced or repaired.
 - viii. Observations and evaluations of BMP effectiveness.
 - ii. Any deficiency observed during the routine inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
 - iii. The routine inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
 - iv. The routine inspection reports shall be made available to Department personnel upon request.

E. SPECIAL CONDITIONS (continued)

- (c) The SWPPP must include a schedule and procedures for a once per year comprehensive site inspection.
 - (1) The annual comprehensive inspection shall be documented in a written report, which shall include:
 - i. The person(s) conducting the inspection.
 - ii. The inspection date and time.
 - iii. Findings from the areas of your facility that were examined;
 - iv. All observations relating to the implementation of your control measures including:
 - 1. Previously unidentified discharges from the site,
 - 2. Previously unidentified pollutants in existing discharges,
 - 3. Evidence of, or the potential for, pollutants entering the drainage system;
 - 4. Evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall, and
 - 5. Additional control measures needed to address any conditions requiring corrective action identified during the inspection.
 - v. Any required revisions to the SWPPP resulting from the inspection;
 - vi. Any incidence of noncompliance observed or a certification stating that the facility is in compliance with this Special Condition.
 - (2) Any deficiency observed during the comprehensive inspection must be corrected within seven (7) days and the actions taken to correct the deficiencies shall be included with the written report.
 - (3) The comprehensive inspection reports must be kept onsite with the SWPPP and maintained for a period of five (5) years.
 - (4) The comprehensive inspection reports shall be made available to Department personnel upon request.
- (d) The SWPPP must be kept on-site and should not be sent to the Department unless specifically requested.
- (e) The SWPPP must be reviewed and updated at a minimum once per permit cycle, as site conditions or control measures change.

25. The permittee shall select, install, use, operate, and maintain the Best Management Practices prescribed in the SWPPP.

- (a) Permittee shall adhere to the following minimum Best Management Practices (BMPs):
 - i. Minimize the exposure of industrial material storage areas, loading and unloading areas, dumpsters and other disposal areas, maintenance activities, and fueling operations to rain, snow, snowmelt, and runoff, by locating industrial materials and activities inside or protecting them with storm resistant coverings, if warranted and practicable.
 - ii. 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.
 - iii. Implement a maintenance program to ensure that the structural control measures and industrial equipment is kept in good operating condition and to prevent or minimize leaks and other releases of pollutants.
 - iv. Prevent or minimize the spillage or leaks of fluids, oil, grease, fuel, etc. from equipment and vehicle maintenance, equipment and vehicle cleaning, or activities.
 - v. 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.
 - vi. Provide stormwater runoff controls to divert, infiltrate, reuse, contain, or otherwise minimize pollutants in the stormwater discharge.
 - vii. Enclose or cover storage piles of salt or piles containing salt, used for deicing or other commercial or industrial purposes.
 - viii. 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.
 - ix. Eliminate and prevent unauthorized non-stormwater discharges at the facility.
 - x. Minimize generation of dust and off-site tracking of raw, final, or waste materials by implementing appropriate control measures.

**MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL
OF
MO-0028037
NIXA WASTEWATER TREATMENT FACILITY**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of 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 five (5) years unless otherwise specified.

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

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

This Factsheet is for a Major.

Part I – Facility Information

Facility Type: POTW - SIC #4952

Facility Description:

Screening / grit and grease removal / influent pump station / oxidation ditches with anaerobic and anoxic zones / final clarifiers / tertiary filtration / biological-chemical phosphorus removal / UV disinfection / sludge holding tank / sludge dewatering / sludge composting / sludge and compost is land applied.

Application Date: 07/22/14

Expiration Date: 02/04/15

OUTFALL(S) TABLE:

OUTFALL	DESIGN FLOW (CFS)	TREATMENT LEVEL	EFFLUENT TYPE
#001	6.2	Tertiary	Domestic
#SM1	<i>Upstream Monitoring Site</i>		

Facility Performance History:

This facility was last inspected on December 4, 2013. The conditions of the facility at the time of inspection were found to be satisfactory. A review of the past five years of monitoring reports submitted by the permittee indicates the following exceedances (month/year): aluminum in 11/12; fecal coliform in 4/13, 9/10.

Comments:

Changes in this permit include the addition of Total Nitrogen monitoring and a Chronic WET Test. See Part VII of the Fact Sheet for further information regarding the addition 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, instream monitoring requirements, SWPPP requirements, and eDMR requirements.

Part II – Operator Certification Requirements

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

Owned or operated by or for a

- | | |
|--|---|
| <input checked="" type="checkbox"/> - Municipalities | <input type="checkbox"/> - Public Water Supply Districts |
| <input type="checkbox"/> - State agency | <input type="checkbox"/> - Private Sewer Company regulated by the Public Service Commission |
| <input type="checkbox"/> - Federal agency | <input type="checkbox"/> - State agency |
| <input type="checkbox"/> - Public Sewer District | <input type="checkbox"/> - Federal agency |
| <input type="checkbox"/> - County | |

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

This facility currently requires an 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: Stuart Venable
Certification Number: 1856
Certification Level: A

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 Monitoring

- As per [10 CSR 20-9.010(4)], the facility is not required to conduct operational monitoring.
 - As per [10 CSR 20-9.010(4)], the facility is required to conduct operational monitoring.

Part IV – Receiving Stream Information

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream’s beneficial water uses to be maintained, are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(4)].

RECEIVING STREAM(S) TABLE: OUTFALL #001

WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	DISTANCE TO CLASSIFIED SEGMENT (MI)
Finley Creek	P	2352	IRR, LWW, AQL, HHP, CLF, WBC-A, SCR	(11010002-0208)	Direct Discharge

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

RECEIVING STREAM(S) LOW-FLOW VALUES:

RECEIVING STREAM (C, E, P, P1)	LOW-FLOW VALUES (CFS)		
	1Q10	7Q10	30Q10
Finley Creek (P)	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:

Facilities with a design flow greater than 100,000 gallons per day are required to sample their effluent quarterly for Total Phosphorus and Total Nitrogen per 10 CSR 20-7.015(9)(D)7. Upstream monitoring for these parameters is necessary to determine background concentrations in order to complete calculations that determine instream nutrient loading.

Receiving Water Body's Water Quality

This facility discharges to Finley Creek (P) (2352) which then flows about 8 miles to James River (P) (2362). James River has an EPA approved TMDL for nutrients. The TMDL states that Phosphorus limits should be set according to the 1999 Phosphorus rule. Phosphorus limits of 0.5 mg/L as a monthly average are consistent with the requirements of the TMDL.

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(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

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

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

- Statistical analysis was performed using the past five years of aluminum data submitted by the permittee and determined no reasonable potential for aluminum to violate water quality standards. Because of this, monitoring only for aluminum.
- Limits calculated for ammonia using the past five years of data submitted by the permittee establish a monthly average limit (2.9 mg/L) that is less stringent than the previous permit (2.8 mg/L) in the winter months. The same water quality criteria was used; therefore, the limit is as protective as the limit in the previous permit.
- This permit changes WET test requirements for the facility from a pass/fail requirement to monitoring only for toxic units. This change reflects modifications to Missouri's Effluent Regulation found at 10 CSR 20-7.015. 40 CFR 122.44(d)(1)(ii) requires the Department to establish effluent limitations that control all parameters which have the reasonable potential to cause or contribute to an excursion above any state water quality standard, including state narrative criteria. The previous permit imposed a pass/fail limitation without collecting sufficient data to make a reasonable potential determination. Furthermore, the method of reporting associated with the pass/fail limitation prevented the Department from gathering the data necessary to make a finding of reasonable potential. Implementation of the toxic unit monitoring requirement will allow the Department to implement numeric acute criteria in accordance with water quality standards established under §303 of the CWA.

ANTIDegradation:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(3)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- 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.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

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

BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address:

<http://extension.missouri.edu/main/DisplayCategory.aspx?C=74>, items WQ422 through WQ449.

- Permittee land applies biosolids in accordance with Standard Conditions III and a Department approved biosolids management plan.

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 not currently under Water Protection Program enforcement action.

DISCHARGE MONITORING REPORTS:

On July 30, 2013, EPA proposed the Clean Water Act National Pollutant Discharge Elimination System (NPDES) Electronic Reporting Rule, which requires electronic reporting of NPDES information rather than the currently-required paper-based reports from permitted facilities. To comply with the upcoming federal rule, the Department is asking all permittees to begin submitting discharge monitoring data online. For permittees already using the Department's eDMR data reporting system, those permittees will be required to exclusively use the eDMR data reporting system.

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

PRETREATMENT PROGRAM:

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

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

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

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

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

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.

- A RPA was conducted on appropriate parameters. Please see **APPENDIX – RPA RESULTS.**

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

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

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

- 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). The CMOM identifies some of the criteria used by the EPA 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 includes interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(11), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A SOC is not allowed:

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

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

- This permit does not contain a SOC.

STORMWATER POLLUTION PREVENTION PLAN (SWPPP):

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

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

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

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

In lieu of requiring sampling in the site-specific permit, the facility is required to develop and implement a Stormwater Pollution Prevention Plan. A facility can apply for conditional exclusion for "no exposure" of industrial activities and materials to stormwater by submitting to the Department a completed NPDES Form 3510-11 – No Exposure Certification for Exclusion from NPDES Stormwater Permitting. That document and additional information may be found at <http://water.epa.gov/polwaste/npdes/stormwater/Conditional-No-Exposure-Exclusion.cfm>. Upon approval on the "No Exposure", the permit can be modified to remove the SWPPP requirements. If the facility chooses to retain the conditional exclusion for "no exposure", the facility is required to renew the "No Exposure" exemption during the permit renewal period by submitting NPDES Form 3510-11 with Form B2.

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

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

$$C_e = \frac{(Q_e + Q_s)C - (Q_s \times C_s)}{(Q_e)} \quad (\text{EPA/505/2-90-001, Section 4.5.5})$$

Where C = downstream concentration C_e = effluent concentration
Cs = upstream concentration Q_e = effluent flow
Q_s = 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.

WATER QUALITY STANDARDS:

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

WHOLE EFFLUENT TOXICITY (WET) TEST:

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

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

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

40 CFR 122.41(M) - BYPASSES:

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

- This facility does not anticipate bypassing.

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

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

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

- This facility discharges to a 303(d) listed stream.
- This facility does not discharge to a 303(d) listed stream.
- This facility discharges to a stream with an EPA approved TMDL. This facility discharges to Finley Creek (P) (2352) which then flows about 8 miles to James River (P) (2362). James River has an EPA approved TMDL for nutrients. The TMDL states that Phosphorus limits should be set according to the 1999 Phosphorus rule. Phosphorus limits of 0.5 mg/L as a monthly average are consistent with the requirements of the TMDL.

Part VI –2013 Water Quality Criteria for Ammonia

Upcoming changes to the Water Quality Standard for ammonia may require significant upgrades to wastewater treatment facilities.

On August 22, 2013, the U.S. Environmental Protection Agency (EPA) finalized new water quality criteria for ammonia, based on toxicity studies of mussels and gill breathing snails. Missouri's current ammonia criteria are based on toxicity testing of several species, but did not include data from mussels or gill breathing snails. Missouri is home to 69 of North America's mussel species, which are spread across the state. According to the Missouri Department of Conservation nearly two-thirds of the mussel species in Missouri are considered to be "of conservation concern". Nine species are listed as federally endangered, with an additional species currently proposed as endangered and another species proposed as threatened.

The adult forms of mussels that are seen in rivers, lakes, and streams are sensitive to pollutants because they are sedentary filter feeders. They vacuum up many pollutants with the food they bring in and cannot escape to new habitats, so they can accumulate toxins in their bodies and die. But very young mussels, called glochidia, are exceptionally sensitive to ammonia in water. As a result of a citizen suit, the EPA was compelled to conduct toxicity testing and develop ammonia water quality criteria that would be protective if young mussels may be present in a waterbody. These new criteria will apply to any discharge with ammonia levels that may pose a reasonable potential to violate the standards. Nearly all discharging domestic wastewater treatment facilities (cities, subdivisions, mobile home parks, etc.), as well as certain industrial and stormwater dischargers with ammonia in their effluent, will be affected by this change in the regulations.

When new water quality criteria are established by the EPA, states must adopt them into their regulations in order to keep their authorization to issue permits under the National Pollutant Discharge Elimination System (NPDES). States are required to review their water quality standards every three years, and if new criteria have been developed they must be adopted. States may be more protective than the Federal requirements, but not less protective. Missouri does not have the resources to conduct the studies necessary for developing new water quality standards, and therefore our standards mirror those developed by the EPA; however, we will utilize any available flexibility based on actual species of mussels that are native to Missouri and their sensitivity to ammonia.

Many treatment facilities in Missouri are currently scheduled to be upgraded to comply with the current water quality standards. But these new ammonia standards may require a different treatment technology than the one being considered by the permittee. It is important that permittees discuss any new and upcoming requirements with their consulting engineers to ensure that their treatment systems are capable of complying with the new requirements. The Department encourages permittees to construct treatment technologies that can attain effluent quality that supports the EPA ammonia criteria.

Ammonia toxicity varies by temperature and by pH of the water. Assuming a stable pH value, but taking into account winter and summer temperatures, Missouri includes two seasons of ammonia effluent limitations. Current effluent limitations in this permit are:

Summer – 4.5 mg/L daily maximum, 1.4 mg/L monthly average.

Winter – 9.5 mg/L daily maximum, 2.9 mg/L monthly average.

Under the new EPA criteria, where mussels of the family Unionidae are present or expected to be present, the estimated effluent limitations for a facility in a location such as this that discharges to a receiving stream with the mixing consideration listed in Part IV of the Fact Sheet will be:

Season	Temp (°C)	pH (SU)	Total Ammonia Nitrogen CCC (mg/L)	Total Ammonia Nitrogen CMC (mg/L)
Summer	26	7.8	0.7	3.4
Winter	6	7.8	2.3	8.1

Summer: April 1 – September 30

Chronic WLA: $C_e = ((6.2 + 0.25)0.7 - (0.25 * 0.01))/6.2$
 $C_e = 0.73 \text{ mg/L}$

Acute WLA: $C_e = ((6.2 + 0.0025)3.4 - (0.0025 * 0.01))/6.2$
 $C_e = 3.40 \text{ mg/L}$

$LTA_c = 0.73 \text{ mg/L (0.720)} = 0.52 \text{ mg/L}$

[CV = 0.80, 99th Percentile, 30 day avg.]

$LTA_a = 3.40 \text{ mg/L (0.249)} = 0.85 \text{ mg/L}$

[CV = 0.80, 99th Percentile]

Use most protective number of LTA_c or LTA_a .

$MDL = 0.52 \text{ mg/L (4.02)} = \mathbf{2.1 \text{ mg/L}}$

[CV = 0.80, 99th Percentile]

$AML = 0.52 \text{ mg/L (1.26)} = \mathbf{0.7 \text{ mg/L}}$

[CV = 0.80, 95th Percentile, n =30]

Winter: October 1 – March 31

Chronic WLA: $C_e = ((6.2 + 0.25)2.3 - (0.25 * 0.01))/6.2$
 $C_e = 2.39 \text{ mg/L}$

Acute WLA: $C_e = ((6.2 + 0.0025)8.1 - (0.0025 * 0.01))/6.2$
 $C_e = 13.01 \text{ mg/L}$

$LTA_c = 2.39 \text{ mg/L (0.715)} = 1.71 \text{ mg/L}$

[CV = 0.82, 99th Percentile, 30 day avg.]

$LTA_a = 13.01 \text{ mg/L (0.244)} = 3.17 \text{ mg/L}$

[CV = 0.82, 99th Percentile]

Use most protective number of LTA_c or LTA_a .

$MDL = 1.71 \text{ mg/L (4.10)} = \mathbf{7.0 \text{ mg/L}}$

[CV = 0.82, 99th Percentile]

$AML = 1.71 \text{ mg/L (1.26)} = \mathbf{2.2 \text{ mg/L}}$

[CV = 0.82, 95th Percentile, n =30]

Summer – 2.1 mg/L daily maximum, 0.7 mg/L monthly average.

Winter – 7.0 mg/L daily maximum, 2.2 mg/L monthly average.

These estimated limits above are based in part on the actual performance of the plant at the time of the drafting of this permit and should not be construed as future effluent limitations. Future effluent limits, based on the EPA’s 2013 water quality criteria for ammonia, will depend in part on the actual performance of the facility at the time the permit is renewed.

Operating permits for facilities in Missouri must be written based on current statutes and regulations. Therefore permits will be written with the existing effluent limitations until the new standards are adopted. To aid permittees in decision making, an advisory will be added to permit Fact Sheets notifying permittees of the expected effluent limitations for ammonia. When setting schedules of compliance for ammonia effluent limitations, consideration will be given to facilities that have recently constructed upgraded facilities to meet the current ammonia limitations.

For more information on this topic feel free to contact the Missouri Department of Natural Resources, Water Protection Program, Water Pollution Control Branch, Operating Permits Section at (573) 751-1300.

Part VII – Effluent Limits Determination

APPLICABLE DESIGNATIONS OF WATERS OF THE STATE:

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

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

OUTFALL #001 – MAIN FACILITY OUTFALL

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	*		*	*/*	weekdays	monthly	M
BOD ₅	mg/L	1		45	30	45/30	weekly	monthly	C
TSS	mg/L	1		45	30	45/30	weekly	monthly	C
<i>Escherichia coli</i> **	#/100mL	1, 3		630	126	Fecal 1000/ 400	weekly	monthly	G
Ammonia as N (Apr 1 – Sep 30)	mg/L	2, 3	4.5		1.4	5.4/1.4	weekly	monthly	G
Ammonia as N (Oct 1 – Mar 31)	mg/L	2, 3	9.5		2.9	12.0/3.4	weekly	monthly	G
Total Phosphorus	mg/L	1	*		0.5	0.5	monthly	monthly	G
Aluminum, Total Recoverable	µg/L	2, 3	*		*	750/374	monthly	monthly	G
Oil & Grease	mg/L	1, 3	15		10	15/10	quarterly	quarterly	G
Total Nitrogen	mg/L	1	*		*	***	quarterly	quarterly	G
Acute Whole Effluent Toxicity	TUa	1, 9	*			Pass/Fail	annually	annually	C
Chronic Whole Effluent Toxicity	TUc	1, 9	*			***	once per permit cycle	once per permit cycle	C
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	weekly	monthly	G

* - Monitoring requirement only.

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

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

**** - C = 24-hour composite

G = Grab

M = Total Measured / Measured

Basis for Limitations Codes:

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

OUTFALL #001 – DERIVATION AND DISCUSSION OF LIMITS:

- **Flow.** In accordance with [40 CFR Part 122.44(i)(1)(ii)] the volume of effluent discharged from each outfall is needed to assure compliance with permitted effluent limitations. If the permittee is unable to obtain effluent flow, then it is the responsibility of the permittee to inform the Department, which may require the submittal of an operating permit modification.
- **Biochemical Oxygen Demand (BOD₅).** Effluent limitations have been retained from previous state operating permit, please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Effluent Limits Determination.**
- **Total Suspended Solids (TSS).** Effluent limitations have been retained from previous state operating permit, please see the **APPLICABLE DESIGNATION OF WATERS OF THE STATE** sub-section of the **Effluent Limits Determination.**

- **Total Ammonia Nitrogen.** 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 30

Chronic WLA: $C_e = ((6.2 + 0.25)1.5 - (0.25 * 0.01))/6.2$
 $C_e = 1.56 \text{ mg/L}$

Acute WLA: $C_e = ((6.2 + 0.0025)12.1 - (0.0025 * 0.01))/6.2$
 $C_e = 12.10 \text{ mg/L}$

$LTA_c = 1.56 \text{ mg/L} (0.720) = 1.12 \text{ mg/L}$
 $LTA_a = 12.10 \text{ mg/L} (0.249) = 3.01 \text{ mg/L}$

[CV = 0.80, 99th Percentile, 30 day avg.]
 [CV = 0.80, 99th Percentile]

Use most protective number of LTA_c or LTA_a .

MDL = 1.12 mg/L (4.02) = **4.5 mg/L**
 AML = 1.12 mg/L (1.26) = **1.4 mg/L**

[CV = 0.80, 99th Percentile]
 [CV = 0.80, 95th Percentile, n =30]

Winter: October 1 – March 31

Chronic WLA: $C_e = ((6.2 + 0.25)3.1 - (0.25 * 0.01))/6.2$
 $C_e = 3.22 \text{ mg/L}$

Acute WLA: $C_e = ((6.2 + 0.0025)12.1 - (0.0025 * 0.01))/6.2$
 $C_e = 12.10 \text{ mg/L}$

$LTA_c = 3.22 \text{ mg/L} (0.715) = 2.31 \text{ mg/L}$
 $LTA_a = 12.1 \text{ mg/L} (0.244) = 2.95 \text{ mg/L}$

[CV = 0.82, 99th Percentile, 30 day avg.]
 [CV = 0.82, 99th Percentile]

Use most protective number of LTA_c or LTA_a .

MDL = 2.31 mg/L (4.10) = **9.5 mg/L**
 AML = 2.31 mg/L (1.26) = **2.9 mg/L**

[CV = 0.82, 99th Percentile]
 [CV = 0.82, 95th Percentile, n =30]

- **Escherichia coli (E. coli).** Monthly average of 126 per 100 mL as a geometric mean and Weekly Average of 630 per 100 mL as a geometric mean during the recreational season (April 1 – October 31), to protect Whole Body Contact Recreation (A) designated use of the receiving stream, as per 10 CSR 20-7.031(5)(C). An effluent limit for both monthly average and weekly average is required by 40 CFR 122.45(d). The Geometric Mean is calculated by multiplying all of the data points and then taking the nth root of this product, where n = # of samples collected. For example: Five E. coli samples were collected with results of 1, 4, 6, 10, and 5 (#/100mL). Geometric Mean = 5th root of (1)(4)(6)(10)(5) = 5th root of 1,200 = 4.1 #/100mL.
- **pH.** 6.0-9.0 SU. Technology based limits [10 CSR 20-7.015] are protective of the water quality standard [10 CSR 20-7.031(5)(E)], due to the buffering capacity of the mixing zone.
- **Total Phosphorus.** This facility discharges to Finley Creek (P) (2352) which then flows about 8 miles to James River (P) (2362). James River has an EPA approved TMDL for nutrients. The TMDL states that Phosphorus limits should be set according to the 1999 Phosphorus rule. Phosphorus limits of 0.5 mg/L as a monthly average are consistent with the requirements of the TMDL. Discharges to Table Rock Lake watershed, defined as hydrologic units 11010001 and 11010002, shall not exceed 0.5 mg/L of phosphorus as a monthly average per 10 CSR 20-7.015 (3).
- **Aluminum, Total Recoverable.** Statistical analysis was performed using the past five years of aluminum data submitted by the permittee and determined no reasonable potential for aluminum to violate water quality standards. Because of this, monitoring only for aluminum. This facility uses chemicals for phosphorous removal that may contain aluminum. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards for Aluminum, Total Recoverable.

- **Oil & Grease.** Conventional pollutant, effluent limitation for protection of aquatic life; 10 mg/L monthly average, 15 mg/L daily maximum.
- **Total Nitrogen.** Monitoring required for facilities greater than 100,000 gpd design flow per 10 CSR 20-7.015(9)(D)7. Total Nitrogen shall be determined by testing for Total Kjeldahl Nitrogen (TKN) and Nitrate + Nitrite and reporting the sum of the results (reported as N). Nitrate + Nitrite can be analyzed together or separately.
- **Acute Whole Effluent Toxicity.** Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.

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

- **Chronic Whole Effluent Toxicity.** Monitoring requirement only. Monitoring is required to determine if reasonable potential exists for this facility's discharge to exceed water quality standards.

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

Sampling Frequency Justification:

Oil & Grease sampling frequency has been reduced from monthly to quarterly due to satisfactory facility performance. Otherwise sampling and reporting frequency was retained from previous permit.

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

Acute Whole Effluent Toxicity

- **No less than ONCE/YEAR:**
 - Facility is designated as a Major facility or has a design flow \geq 1.0 MGD.
 - 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, BOD₅, TSS, and WET test samples collected for mechanical plants shall be a 24 hour composite sample. Grab samples, however, must be collected for pH, Ammonia as N, *E. coli*, Aluminum, Oil & Grease, Total Nitrogen, and Total Phosphorus. This is due to the holding time restriction for *E. coli*, the volatility of Ammonia, and the fact that pH cannot be preserved and must be sampled in the field. As Ammonia, Oil & Grease, Aluminum, Total Nitrogen, and Total Phosphorus samples must be immediately preserved, these samples are to be collected as a grab.

PERMITTED FEATURE #SM1 – INSTREAM MONITORING (UPSTREAM)
MONITORING REQUIREMENTS TABLE:

PARAMETER	Unit	Basis for Limits	Daily Maximum	Weekly Average	Monthly Average	Previous Permit Limit	Sampling Frequency	Reporting Frequency	Sample Type ****
Total Nitrogen	mg/L	7	*		*	***	quarterly	quarterly	G
Total Phosphorus	mg/L	7	*		*	***	quarterly	quarterly	G

* - Monitoring requirement only.

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

**** - C = 24-hour composite

G = Grab

M = Total Measured / Measured

Basis for Limitations Codes:

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

PERMITTED FEATURE #SM1 – DERIVATION AND DISCUSSION OF MONITORING REQUIREMENTS:

- **Total Phosphorus and Total Nitrogen.** Facilities with a design flow greater than 100,000 gallons per day are required to sample their effluent quarterly for Total Phosphorus and Total Nitrogen per 10 CSR 20-7.015(9)(D)7. 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 has been established to match the required sampling frequency of these parameters in the effluent.

Sampling Type Justification

As Total Phosphorus and Total Nitrogen samples must be immediately preserved; these samples are to be collected as a grab.

Part VIII – 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 publically-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. See **Appendix – Cost Analysis for Compliance**

Part IX – Administrative Requirements

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

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the Department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

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 August 28, 2015 – September 28, 2015. Comments were received from the TMDL unit of the Water Protection Program requesting language be added about the TMDL for James River. Statements referencing Phosphorus WLAs has been added to this fact sheet. Responses to the Public Notice of this operating permit did not warrant the modification of effluent limits and/or the terms and conditions of this permit.

DATE OF FACT SHEET: JULY 6, 2015

COMPLETED BY:

**ANGELA FALLS, ENVIRONMENTAL SPECIALIST
MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
OPERATING PERMITS SECTION - DOMESTIC WASTEWATER UNIT
(573) 751-1419
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Appendices

APPENDIX - CLASSIFICATION WORKSHEET:

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
Maximum Population Equivalent (P.E.) served (Max 10 pts.)	1 pt./10,000 PE or major fraction thereof.	4
Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)	1 pt. / MGD or major fraction thereof.	4
EFFLUENT DISCHARGE RECEIVING WATER SENSITIVITY:		
Missouri or Mississippi River	0	
All other stream discharges except to losing streams and stream reaches supporting whole body contact	1	
Discharge to lake or reservoir outside of designated whole body contact recreational area	2	
Discharge to losing stream, or stream, lake or reservoir area supporting whole body contact recreation	3	3
PRELIMINARY TREATMENT - Headworks		
Screening and/or comminution	3	3
Grit removal	3	3
Plant pumping of main flow (lift station at the headworks)	3	3
PRIMARY TREATMENT		
Primary clarifiers	5	
Combined sedimentation/digestion	5	
Chemical addition (except chlorine, enzymes)	4	
REQUIRED LABORATORY CONTROL – performed by plant personnel (highest level only)		
Push – button or visual methods for simple test such as pH, Settleable solids	3	
Additional procedures such as DO, COD, BOD, titrations, solids, volatile content	5	
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	7	7
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph	10	
ALTERNATIVE FATE OF EFFLUENT		
Direct reuse or recycle of effluent	6	
Land Disposal – low rate	3	
High rate	5	
Overland flow	4	
Total from page ONE (1)	----	27

APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):

ITEM	POINTS POSSIBLE	POINTS ASSIGNED
VARIATION IN RAW WASTE (highest level only) (DMR exceedances and Design Flow exceedances)		
Variation do not exceed those normally or typically expected	0	
Recurring deviations or excessive variations of 100 to 200 % in strength and/or flow	2	
Recurring deviations or excessive variations of more than 200 % in strength and/or flow	4	4
Raw wastes subject to toxic waste discharge	6	
SECONDARY TREATMENT		
Trickling filter and other fixed film media with secondary clarifiers	10	
Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)	15	15
Stabilization ponds without aeration	5	
Aerated lagoon	8	
Advanced Waste Treatment Polishing Pond	2	
Chemical/physical – without secondary	15	
Chemical/physical – following secondary	10	10
Biological or chemical/biological	12	12
Carbon regeneration	4	
DISINFECTION		
Chlorination or comparable	5	
Dechlorination	2	
On-site generation of disinfectant (except UV light)	5	
UV light	4	4
SOLIDS HANDLING - SLUDGE		
Solids Handling Thickening	5	
Anaerobic digestion	10	
Aerobic digestion	6	
Evaporative sludge drying	2	
Mechanical dewatering	8	8
Solids reduction (incineration, wet oxidation)	12	
Land application	6	6
Total from page TWO (2)	---	59
Total from page ONE (1)	---	27
Grand Total	---	86

- 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	2.99	1.5	2.88	28.00	1.2/0.1	0.80	2.50	YES
Total Ammonia as Nitrogen (Winter) mg/L	12.1	5.17	3.1	4.97	30.00	2.1/0.1	0.82	2.46	YES
Aluminum, Total Recoverable	750.0	584.72	NA	NA	58.00	380/47	0.51	1.54	NO

N/A – Not Applicable

* - Units are (µg/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 LAYOUT:



APPENDIX – COST ANALYSIS FOR COMPLIANCE:

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

**Nixa WWTF, Permit Renewal
City of Nixa
Missouri State Operating Permit #MO-0028037**

Section 644.145 RSMo requires the Department of Natural Resources (DNR) 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.”

The Department is required to issue a permit with final effluent limits in accordance with 644.051.1.(1) RSMo, 644.051.1.(2) RSMo, and the Clean Water Act. The practical result of many affordability findings will be to allow longer compliance schedules to mitigate adverse impact to distressed populations resulting from the costs of upgrading the wastewater treatment facility.

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.

Facility Description: Screening / grit and grease removal / influent pump station / oxidation ditches with anaerobic and anoxic zones / final clarifiers / tertiary filtration / biological-chemical phosphorus removal / UV disinfection / sludge holding tank / sludge dewatering / sludge composting / sludge and compost is land applied.

Residential Connections:	<u>7,418</u>
Commercial Connections:	<u>560</u>
Industrial Connections:	<u>10</u>
Total Connections for this facility:	<u>7,988</u>

New Permit Requirements:

The permit requires compliance with new monitoring requirements for Total Nitrogen and Total Phosphorus. The permit also states that one of the yearly WET Tests be chronic. The development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) is also a requirement in the permit.

Anticipated Costs Associated with Complying with the New Requirements:

The total cost estimated for new quarterly monitoring requirements for nutrients is \$800 annually. The cost of a chronic WET Test is \$1,550 which is \$310 annually. The estimated cost to develop a SWPPP is \$2,000 which is \$400 annually if costs are spread over the first permit cycle. This totals to \$1,510 per year. This cost, if financed through user fees, might cost each household an extra \$0.02¹ per month. A community sets their user rates based on several factors. The percentage of the current user rate that is available to cover new debt is unknown to the Department.

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

Due to the minimal cost associated with this new permit requirement, the Department anticipates the City of Nixa has the means to raise \$1,510 annually.

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

The total cost estimated for the new permit requirements is \$1,510 annually. This cost, if financed through user fees, might cost each household an extra \$0.02 per month. This would make the additional cost per household as a percent of median household income (MHI) 0.001%² based on the State’s MHI of \$47,333. Due to the minimal cost associated with this new requirement, the Department anticipates an extremely low to no rate increase will be necessary that could impact individuals or households of the community.

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

Nutrients are mineral compounds that are required for organisms to grow and thrive. Of the six (6) elemental macronutrients, Nitrogen and Phosphorus are generally not readily available and limit growth of organisms. If excess Nitrogen and Phosphorus are introduced into a waterbody, some species' populations will dramatically increase, while other populations will not be able to sustain life. This causes a shift in the ecosystem's food web. Competition and productivity are two factors in which nutrients can alter aquatic ecosystems and the designated uses of a waterbody. For example, designated uses, like drinking water source or recreational uses, become impaired when algal blooms take over a waterbody. These blooms can cause foul tastes and odors in the drinking water, and also cause unsightly appearance, and fish mortality in the waterbody. Some algae also produce toxins that may cause serious adverse health conditions such as liver damage, tumor promotion, paralysis, and kidney damage. Increased productivity of aquatic life may also clog treatment equipment, cause an increase in organic matter, bacteria, and fungi, and die-off and decomposition of algal blooms can reduce dissolved oxygen and suffocate fish and other aquatic life in the waterbody. The monitoring requirements for Nitrogen and Phosphorus have been added to the permit to provide data to the Department regarding the health of the receiving stream's aquatic life.

(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 \$5,280,000. The community reported that each user pays \$10.01 (34% of the user rate based on a 5,000 gallon per month usage of \$29.45) 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.

Socioeconomic Data^{3-6:}

Potentially Distressed Populations – City of Nixa	
Unemployment	4.7%
Adjusted Median Household Income (MHI)*	\$53,127
Percent Change in MHI (1990-2012)	+15.8%
Percent Population Growth/Decline (1990-2012)	+279.2%
Change in Median Age in Years (1990-2012)	+2.6
Percent of Households in Poverty	11.1%
Percent of Households Relying on Food Stamps	4.7%

* The State's average MHI of \$47,333 is used in this analysis

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

The community reported no major environmental projects currently.

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

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

The community reported that local community economic conditions are stable and should not impact the ability of the City to afford new permit requirements unless discharge limits are drastically reduced.

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 requirements. The Department identified the actions for which cost analysis for compliance is required under Section 644.145 RSMo.

The Department estimates the cost for quarterly nitrogen and phosphorus monitoring, chronic WET testing, and the development of a SWPPP is \$1,510 per year. Should these additional costs be financed through user fees, it may require user fees 0.001% of the community's MHI.

The Department considered the eight (8) criteria presented in subsection 644.145.3 when evaluating the cost associated with the relevant actions. Taking into consideration these criteria, this analysis examined whether the above referenced permit modifications affects 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. As a result of reviewing the above criteria, the Department hereby finds that the action described above 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:

1. $((\text{Estimated cost for sampling annually}/\text{Total connections})/12 \text{ months}) = \text{Cost per household per month}$
2. $(\text{Cost per household per month}/(\text{MHI}/12)) * 100 = \text{Cost per household as a percent of MHI}$
3. Unemployment data was obtained from Missouri Department of Economic Development (July 2014) – <http://www.missourieconomy.org/pdfs/urel1407.pdf>
4. Median Household Income data from American Community Survey – Median income in the past 12 months – http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?_afpt=table
5. Population trend data was obtained from online at: 2012 Census Bureau Population Data - http://factfinder2.census.gov/faces/tableservices/jsf/pages/productview.xhtml?_afpt=table, 2000 Census Bureau Population Data - <http://www.census.gov/popest/data/cities/totals/2009/tables/SUB-EST2009-04-29.xls>, 1990 Census Bureau Population Data - <http://www.census.gov/prod/cen1990/cp1/cp-1-27.pdf>
6. Poverty data – American Community Survey- <http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>



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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.
4. **Test Procedures.** The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is “sufficiently sensitive” when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee’s sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

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

Section B – Reporting Requirements

1. **Planned Changes.**
 - a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - 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(a)(1);
 - iii. The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
 - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.
2. **Non-compliance Reporting.**
 - a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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- 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.
 - iii. 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 28th day of the month following the end of the reporting period.
- b. Notice.
 - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
 - c. Prohibition of bypass.
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
 - a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under 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 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.

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



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- imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class 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.
- d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.
2. **Duty to Reapply.**
- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
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.



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10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
 - a. 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.**
 - a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
 - b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
 - 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 non-compliance 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.



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
MAY 1, 2013

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:

1. 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

STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
March 1, 2015

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

SECTION A – GENERAL REQUIREMENTS

1. This permit pertains to sludge requirements under the Missouri Clean Water Law and regulation for domestic wastewater and industrial process wastewater. This permit also incorporates applicable federal sludge disposal requirements under 40 CFR 503 for domestic wastewater. The Environmental Protection Agency (EPA) has principal authority for permitting and enforcement of the federal sludge regulations under 40 CFR 503 for domestic wastewater. EPA has reviewed and accepted these standard sludge conditions. EPA may choose to issue a separate sludge addendum to this permit or a separate federal sludge permit at their discretion to further address the federal requirements.
2. These PART III Standard Conditions apply only to sludge and biosolids generated at domestic wastewater treatment facilities, including public owned treatment works (POTW), privately owned facilities and sludge or biosolids generated at industrial facilities.
3. Sludge and Biosolids Use and Disposal Practices:
 - a. The permittee is authorized to operate the sludge and biosolids treatment, storage, use, and disposal facilities listed in the facility description of this permit.
 - b. The permittee shall not exceed the design sludge volume listed in the facility description and shall not use sludge disposal methods that are not listed in the facility description, without prior approval of the permitting authority.
 - c. The permittee is authorized to operate the storage, treatment or generating sites listed in the Facility Description section of this permit.
4. Sludge Received from other Facilities:
 - a. Permittees may accept domestic wastewater sludge from other facilities including septic tank pumpings from residential sources as long as the design sludge volume is not exceeded and the treatment facility performance is not impaired.
 - b. The permittee shall obtain a signed statement from the sludge generator or hauler that certifies the type and source of the sludge
5. These permit requirements do not supersede nor remove liability for compliance with county and other local ordinances.
6. These permit requirements do not supersede nor remove liability for compliance with other environmental regulations such as odor emissions under the Missouri Air Pollution Control Law and regulations.
7. This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act under Chapter 644 RSMo.
8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.
9. Alternate Limits in the Site Specific Permit.

Where deemed appropriate, the Department may require an individual site specific permit in order to authorize alternate limitations:

 - a. A site specific permit must be obtained for each operating location, including application sites.
 - b. To request a site specific permit, an individual permit application, permit fee, and supporting documents shall be submitted for each operating location. This shall include a detailed sludge/biosolids management plan or engineering report.
10. Exceptions to these Standard Conditions may be authorized on a case-by-case basis by the Department, as follows:
 - a. The Department will prepare a permit modification and follow permit notice provisions as applicable under 10 CSR 20-6.020, 40 CFR 124.10, and 40 CFR 501.15(a)(2)(ix)(E). This includes notification of the owner of the property located adjacent to each land application site, where appropriate.
 - b. Exceptions cannot be granted where prohibited by the federal sludge regulations under 40 CFR 503.

SECTION B – DEFINITIONS

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

SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES

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

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

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

SECTION E – INCINERATION OF SLUDGE

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

SECTION F – SURFACE DISPOSAL SITES AND SLUDGE LAGOONS

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

SECTION G – LAND APPLICATION

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

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

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

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

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

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

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

TABLE 1

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

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

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

TABLE 2

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

¹ You may apply low metal biosolids without tracking cumulative metal limits, provided the cumulative application of biosolids does not exceed 500 dry tons per acre.

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

TABLE 3

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

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

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

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

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

² This applies for a soil with a pH between 6.0 and 7.0 (salt based test) or a pH between 6.5 to 7.5 (water based test). Case-by-case review is required for higher pH soils.

³ Total Dioxin Toxicity Equivalents (TEQ) in soils, based on a risk assessment under 40 CFR 744, May 1998.

⁴ Case by case review. Concentrations in sludge should not exceed the 95th percentile of the National Sewage Sludge Survey, EPA, January 2009.

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

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

SECTION H – CLOSURE REQUIREMENTS

1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 – 6. 010 and 10 CSR 20 – 6.015.
3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
 - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
 - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
 - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
 - i. PAN can be determined as follows:
$$(\text{Nitrate} + \text{nitrite nitrogen}) + (\text{organic nitrogen} \times 0.2) + (\text{ammonia nitrogen} \times \text{volatilization factor}^1).$$

¹ Volatilization factor is 0.7 for surface application and 1 for subsurface application.
4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered “septage” under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
 - a. Testing for metals or fecal coliform is not required
 - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
 - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.
5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain $\geq 70\%$ vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
6. Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200
7. When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
 - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain $\geq 70\%$ 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. Per 10 CSR 20-6.015(4)(B)6, Hazardous Waste shall not be land applied or disposed during industrial and mechanical plant closures unless in accordance with Missouri Hazardous Waste Management Law and Regulations under 10 CSR 25.
 - c. After demolition of the mechanical plant / industrial plant, the site must only contain clean fill defined in RSMo 260.200 (5) as uncontaminated soil, rock, sand, gravel, concrete, asphaltic concrete, cinderblocks, brick, minimal amounts of wood and metal, and inert solids as approved by rule or policy of the Department for fill or other beneficial use. Other solid wastes must be removed.
8. If sludge from the domestic lagoon or mechanical treatment plant exceeds agricultural rates under Section G and/or H, a landfill permit or solid waste disposal permit must be obtained if the permittee chooses to seek authorization for on-site sludge disposal under the Missouri Solid Waste Management Law and regulations per 10 CSR 80, and the permittee must comply with the surface disposal requirements under 40 CFR 503, Subpart C.

SECTION I – MONITORING FREQUENCY

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

TABLE 5

Design Sludge Production (dry tons per year)	Monitoring Frequency (See Notes 1, 2 and 3)			
	Metals, Pathogens and Vectors	Nitrogen TKN ¹	Nitrogen PAN ²	Priority Pollutants and TCLP ³
0 to 100	1 per year	1 per year	1 per month	1 per year
101 to 200	biannual	biannual	1 per month	1 per year
201 to 1,000	quarterly	quarterly	1 per month	1 per year
1,001 to 10,000	1 per month	1 per month	1 per week	-- ⁴
10,001 +	1 per week	1 per week	1 per day	-- ⁴

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

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

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

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

Note 1: Total solids: A grab sample of sludge shall be tested one per day during land application periods for percent total solids.

This data shall be used to calculate the dry tons of sludge applied per acre.

Note 2: Total Phosphorus: Total phosphorus and total potassium shall be tested at the same monitoring frequency as metals.

Note 3: Table 5 is not applicable for incineration

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

SECTION J – RECORD KEEPING AND REPORTING REQUIREMENTS

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

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

DNR regional office listed in your permit
(see cover letter of permit)
ATTN: Sludge Coordinator

EPA Region VII
Water Compliance Branch (WACM)
Sludge Coordinator
11201 Renner Blvd.
Lenexa, KS 66219

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

If contract hauler, provide a copy of a signed contract from the contractor. Permittee shall require the contractor to supply information required under this permit for which the contractor is responsible. The permittee shall submit a signed statement from the contractor that he has complied with the standards contained in this permit, unless the contract hauler has a separate sludge or biosolids use permit.
 - g. Land Application Sites:
 - i. Report the location of each application site, the annual and cumulative dry tons/acre for each site, and the landowners name and address. The location for each spreading site shall be given as a legal description for nearest ¼, ¼, Section, Township, Range, and county, or UTM coordinates. The facility shall report PAN when either of the following occurs: 1) When biosolids are greater than 50,000 mg/kg TN; or 2) when biosolids are land applied at an application rate greater than two dry tons per acre per year.
 - ii. If the “Low Metals” criteria are exceeded, report the annual and cumulative pollutant loading rates in pounds per acre for each applicable pollutant, and report the percent of cumulative pollutant loading which has been reached at each site.
 - iii. Report the method used for compliance with pathogen and vector attraction requirements.
 - iv. Report soil test results for pH, CEC, and phosphorus. If none was tested during the year, report the last date when tested and results.



Nixa Public Works
1010 N. Eaglecrest
Nixa, Missouri 65714
417-725-2353
www.nixa.com

July 17, 2014

RECEIVED

Missouri Department of Natural Resources
Water Protection Program
P.O. Box 176
Jefferson City, MO 65102-0176

WATER PROTECTION PROGRAM

Re: Application for Renewal of Operating Permit MO-0028037
City of Nixa WWTF

Dear Sirs:

Attached is one copy of 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. This is for an operating permit renewal for the current permit which expires on February 4, 2015. Also, attached to Form B2 are copies of exhibits and documents which are requested in different sections of the form. These exhibits and documents include USGS sheets showing the WWTF site, discharge location, and land application sites. Also included are aerial photo sheets showing the WWTF and Outfall discharge point with details on the process tanks and structures, treatment flow path, and other details. Letters on past violations and Sanitary Sewer Overflow Reports are included, also.

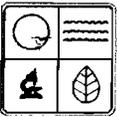
Please contact Stuart Venable, Assistant Water Quality Superintendent – Wastewater or me if additional information is needed.

Sincerely,

A handwritten signature in cursive script that reads "Milton Dickensheet".

Milton Dickensheet, P.E.
Water Quality Superintendent

C: Doug Colvin, Public Works Director
Stuart Venable, Asst. Water Quality Supt.-Wastewater
Phil Walsack, MPUA



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

FOR AGENCY USE ONLY	
CHECK NUMBER	
DATE RECEIVED	FEE SUBMITTED
7/27/14	6.88

PART A – BASIC APPLICATION INFORMATION

1. This application is for:

An operating permit and antidegradation review public notice.

A construction permit following an appropriate operating permit and antidegradation review public notice.

A construction permit, a concurrent operating permit and antidegradation review public notice.

A construction permit (submitted before Aug. 30, 2008 or antidegradation review is not required).

An operating permit for a new or unpermitted facility. Construction Permit # _____

An operating permit renewal: Permit #MO- 0028037 Expiration Date 02/04/2015

An operating permit modification: Permit #MO- _____ Reason: _____

1.1 Is this a Federal/State Funded Project? Yes No Funding Agency/Project #: _____

1.2 Is the appropriate fee included with the application (See instructions for appropriate fee)? Yes No

2. FACILITY

NAME <u>Nixa Wastewater Treatment Facility</u>		TELEPHONE NUMBER WITH AREA CODE <u>417-725-7117</u>	
ADDRESS (PHYSICAL) <u>972 Old Riverdale Rd</u>	CITY <u>Nixa</u>	STATE <u>MO</u>	ZIP <u>65714</u>
2.1 LEGAL DESCRIPTION (Plant Site): <u>1/4 SW 1/4 SE 1/4, Sec. 24, T27N, R22W</u>		County <u>Christian</u>	
2.2 UTM Coordinates Easting (X): <u>474572</u> Northing (Y): <u>4097404</u> For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)			

3. OWNER

NAME <u>City of Nixa</u>		TELEPHONE NUMBER WITH AREA CODE	
ADDRESS <u>P.O. Box 395</u>	CITY <u>Nixa</u>	STATE <u>MO</u>	ZIP <u>65714</u>

3.1 Request review of draft permit prior to Public Notice? Yes No

4. CONTINUING AUTHORITY: Permanent organization which will serve as the continuing authority for the operation, maintenance and modernization of the facility.

NAME <u>City of Nixa</u>		CITY <u>Nixa</u>	
ADDRESS <u>P.O. Box 395</u>	CERTIFICATE NUMBER (IF APPLICABLE)	STATE <u>MO</u>	ZIP <u>65714</u>

5. OPERATOR

NAME <u>Stuart Venable</u>		TELEPHONE NUMBER WITH AREA CODE <u>417 725 7117</u>	
TITLE <u>Ass. + water quality supt. wastewater</u>			

6. FACILITY CONTACT

NAME <u>Stuart Venable</u>		TITLE <u>Asst. Water Quality Supt. - Wastewater</u>	
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MO 780-1805 (09-08)

PART A -- BASIC APPLICATION INFORMATION

7. ADDITIONAL FACILITY INFORMATION

7.1 BRIEF DESCRIPTION OF FACILITIES *Oxidation Ditches / Tertiary Filters / Biological-Chemical Phosphorus Removal / ultraviolet Disinfection / sludge Holding Tanks / sludge Dewatering / sludge composting / sludge & compost is Land Applied.*

7.2 TOPOGRAPHIC MAP. ATTACH TO THIS APPLICATION A TOPOGRAPHIC MAP OF THE AREA EXTENDING AT LEAST ONE MILE BEYOND FACILITY PROPERTY BOUNDARIES. THIS MAP MUST SHOW THE OUTLINE OF THE FACILITY AND THE FOLLOWING INFORMATION. (YOU MAY SUBMIT MORE THAN ONE MAP IF ONE MAP DOES NOT SHOW THE ENTIRE AREA.)

- a. The area surrounding the treatment plant, including all unit processes.
- b. The location of the downstream landowner(s). (See Item 10.)
- c. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.
- d. The actual point of discharge.
- e. Wells, springs, other surface water bodies and drinking water wells that are: 1) within ¼ mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant.
- f. Any areas where the sewage sludge produced by the treatment works is stored, treated or disposed.
- g. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act, or RCRA, by truck, rail or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored or disposed.

7.3 PROCESS FLOW DIAGRAM OR SCHEMATIC. PROVIDE A DIAGRAM SHOWING THE PROCESSES OF THE TREATMENT PLANT. ALSO, PROVIDE A WATER BALANCE SHOWING ALL TREATMENT UNITS, INCLUDING DISINFECTION (E.G. CHLORINATION AND DECHLORINATION). THE WATER BALANCE MUST SHOW DAILY AVERAGE FLOW RATES AT INFLUENT AND DISCHARGE POINTS AND APPROXIMATE DAILY FLOW RATES BETWEEN TREATMENT UNITS. INCLUDE A BRIEF NARRATIVE DESCRIPTION OF THE DIAGRAM.

7.4 FACILITY SIC CODE	DISCHARGE SIC CODE: 4952	FACILITY NAICS CODE: 221320	DISCHARGE NAICS CODE:
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7.5 NUMBER OF SEPARATE DISCHARGE POINTS **one**

7.6 NUMBER OF PEOPLE PRESENTLY CONNECTED OR POPULATION EQUIVALENT 19,022	DESIGN POPULATION EQUIVALENT 40,000
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NUMBER OF UNITS PRESENTLY CONNECTED
 HOMES **7300** APARTMENTS **130** TRAILERS _____ OTHER **130**

TOTAL DESIGN FLOW (ALL OUTFALLS) 4.0 MGD Avg. Design Flow	ACTUAL FLOW 1.284 MGD
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7.7 DOES ANY BYPASSING OCCUR ANYWHERE IN THE COLLECTION SYSTEM OR AT THE TREATMENT FACILITY?
 Yes No (If Yes, attach an explanation.) **See Attached SSO Reports**

7.8 LENGTH OF THE SANITARY SEWER COLLECTION SYSTEM IN MILES
127, including Force Mains

7.9 IS INDUSTRIAL WASTE DISCHARGED TO THE FACILITY IDENTIFIED IN ITEM 2? Yes No **NA**

7.10 WILL THE DISCHARGE BE CONTINUOUS THROUGH THE YEAR? Yes No

A. DISCHARGE WILL OCCUR DURING THE FOLLOWING MONTHS All 12 months	B. HOW MANY DAYS OF THE WEEK WILL THE DISCHARGE OCCUR? 365/year 7/week
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7.11 IS WASTEWATER LAND APPLIED? (If Yes, Attach Form I) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	7.12 DOES THIS FACILITY DISCHARGE TO A LOSING STREAM OR SINKHOLE? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
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7.13 HAS A WASTE LOAD ALLOCATION STUDY BEEN COMPLETED FOR THIS FACILITY?
 Yes No

7.14 LIST ALL PERMIT VIOLATIONS, INCLUDING EFFLUENT LIMIT EXCEEDANCES IN THE LAST FIVE YEARS. ATTACH A SEPARATE SHEET IF NECESSARY. IF NONE, WRITE NONE. **SEE ATTACHMENTS**

8. LABORATORY CONTROL INFORMATION

8.1 LABORATORY WORK CONDUCTED BY PLANT PERSONNEL

Lab work conducted outside of plant.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Push-button or visual methods for simple test such as pH, settleable solids.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Additional procedures such as Dissolved Oxygen, Chemical Oxygen Demand, Biological Oxygen Demand, titrations, solids, volatile content.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph.	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>

FACILITY NAME Nixa WWTF	PERMIT NO. MO-0028037	OUTFALL NO. 001
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PART A - BASIC APPLICATION INFORMATION

9. SLUDGE HANDLING, USE AND DISPOSAL

9.1 IS THE SLUDGE A HAZARDOUS WASTE AS DEFINED BY 10 CSR 25?

Yes No

9.2 SLUDGE PRODUCTION, INCLUDING SLUDGE RECEIVED FROM OTHERS

Design Dry Tons/Year **1317** Actual Dry Tons/Year **291**

9.3 CAPACITY OF SLUDGE HOLDING STRUCTURES

9.4 SLUDGE STORAGE PROVIDED

Cubic Feet **16,529** Days of Storage **121** Average Percent Solids of Sludge **2.31 %** No Sludge Storage is Provided

9.5 TYPE OF STORAGE

Holding Tank Basin Building Concrete Pad Other (Describe) **Holding Tank w/ Diffused Air**

9.6 SLUDGE TREATMENT

Anaerobic Digester Storage Tank Lime Stabilization Lagoon **Holding Tanks w/ Diffused Air**
 Aerobic Digester Air or Heat Drying Composting Other (Attach Description)

9.7 SLUDGE USE OR DISPOSAL

Land Application Contract Hauler Hauled to Another Treatment Facility Solid Waste Landfill
 Surface Disposal (Sludge Disposal Lagoon, Sludge Held For More Than Two Years) Incineration
 Other (Attach Explanation Sheet) **Compost Class A Biosolid**

9.8 PERSON RESPONSIBLE FOR HAULING SLUDGE TO DISPOSAL FACILITY

NAME			
ADDRESS	CITY	STATE	ZIP
CONTACT PERSON	TELEPHONE NUMBER WITH AREA CODE	PERMIT NO. MO-	

9.9 SLUDGE USE OR DISPOSAL FACILITY

By Applicant By Others (Complete Below)

NAME City of Nixa			
ADDRESS P.O. Box 395	CITY Nixa	STATE MO	ZIP 65714
CONTACT PERSON Stuart Venable	TELEPHONE NUMBER WITH AREA CODE 417-725-7117	PERMIT NO. MO-0028037	

9.10 DO THE SLUDGE OR BIOSOLIDS DISPOSAL COMPLY WITH FEDERAL SLUDGE REGULATIONS UNDER 40 CFR 503?

Yes No (Attach Explanation)

10. DOWNSTREAM LANDOWNER(S). (ATTACH ADDITIONAL SHEETS AS NECESSARY.)

NAME Bobby G. Robertson Jr.			
ADDRESS 450 E. Minnetonka Rd	CITY Nixa	STATE MO	ZIP 65714

11. DRINKING WATER SUPPLY INFORMATION

11.1 SOURCE OF YOUR DRINKING WATER SUPPLY

A. PUBLIC SUPPLY (MUNICIPAL OR WATER DISTRICT WATER) (IF PUBLIC, PLEASE GIVE NAME OF PUBLIC SUPPLY)

City of Nixa

B. PRIVATE WELL _____

C. SURFACE WATER (LAKE, POND OR STREAM) _____

11.2 DOES YOUR DRINKING WATER SOURCE SERVE AT LEAST 25 PEOPLE AT LEAST 60 DAYS PER YEAR (NOT NECESSARILY CONSECUTIVE DAYS)? Yes No

11.3 DOES YOUR SUPPLY SERVE HOUSING THAT IS OCCUPIED YEAR ROUND BY THE SAME PEOPLE? THIS DOES NOT INCLUDE HOUSING THAT IS OCCUPIED SEASONALLY? Yes No

END OF PART A

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL

FACILITY NAME <i>NIXA WWTF</i>	PERMIT NO. <i>MO-0028037</i>	OUTFALL NO. <i>001</i>
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PART B – ADDITIONAL APPLICATION INFORMATION

20. INFLOW AND INFILTRATION

ESTIMATE THE AVERAGE NUMBER OF GALLONS PER DAY THAT FLOW INTO THE TREATMENT WORKS FROM INFLOW AND INFILTRATION.

33000 Gallons Per Day

BRIEFLY EXPLAIN ANY STEPS UNDERWAY OR PLANNED TO MINIMIZE INFLOW AND INFILTRATION.

Internal Inspection To Locate Defects & Then CIPP Lining of Sections w/Defects

20.1 OPERATION AND MAINTENANCE PERFORMED BY CONTRACTOR(S)

ARE ANY OPERATIONAL OR MAINTENANCE ASPECTS (RELATED TO WASTEWATER TREATMENT AND EFFLUENT QUALITY) OF THE TREATMENT WORKS THE RESPONSIBILITY OF A CONTRACTOR?

Yes No If Yes, list the name, address, telephone number and status of each contractor and describe the contractor's responsibilities. (Attach additional pages if necessary.)

NAME

MAILING ADDRESS

TELEPHONE NUMBER WITH AREA CODE

RESPONSIBILITIES OF CONTRACTOR

20.2 SCHEDULED IMPROVEMENTS AND SCHEDULES OF IMPLEMENTATION. PROVIDE INFORMATION ABOUT ANY UNCOMPLETED IMPLEMENTATION SCHEDULE OR UNCOMPLETED PLANS FOR IMPROVEMENTS THAT WILL AFFECT THE WASTEWATER TREATMENT, EFFLUENT QUALITY OR DESIGN CAPACITY OF THE TREATMENT WORKS. IF THE TREATMENT WORKS HAS SEVERAL DIFFERENT IMPLEMENTATION SCHEDULES OR IS PLANNING SEVERAL IMPROVEMENTS, SUBMIT SEPARATE RESPONSES FOR EACH. (IF NONE, GO TO QUESTION B-20.3.)

A. List the outfall number that is covered by this implementation schedule Outfall No. _____	B. Indicate whether the planned improvements or implementation schedule are required by local, state or federal agencies. Yes <input type="checkbox"/> No <input type="checkbox"/>
---	---

20.3 WASTEWATER DISCHARGES: COMPLETE QUESTIONS 20.4 THROUGH 20.7 ONCE FOR EACH OUTFALL (INCLUDING BYPASS POINTS) THROUGH WHICH EFFLUENT IS DISCHARGED. DO NOT INCLUDE INFORMATION ON COMBINED SEWER OVERFLOWS IN THIS SECTION.

20.4 DESCRIPTION OF OUTFALL

OUTFALL NUMBER *001*

A. LOCATION

¼ SW ¼ NE Section 30 Township 27N Range 21 E W
 UTM Coordinates Easting (X): 415630 Northing (Y): 4096386
 For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

B. Distance from Shore (If Applicable) <u>10</u> ft.	C. Depth Below Surface (If Applicable) <u>0</u> ft.	D. Average Daily Flow Rate <u>1.284</u> mgd
---	--	--

E. Does this outfall have either an intermittent or periodic discharge?

Yes No If Yes, Provide the following information:

Number of Days Per Year Discharge Occurs:	Average Duration of Each Discharge:	Average Flow Per Discharge: mgd	Months in Which Discharge Occurs:
---	-------------------------------------	------------------------------------	-----------------------------------

Is Outfall Equipped with a Diffuser? Yes No

20.5 DESCRIPTION OF RECEIVING WATER

B. Name of Receiving Water
FINLEY CREEK

B. Name of Watershed (If Known)
JAMES RIVER

B. Name of State Management/River Basin (If Known)

U.S. Soil Conservation Service 14-Digit Watershed Code (If Known)
11010002 - 030004

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

B. Critical Flow of Receiving Stream (If Applicable)
Acute _____ cfs Chronic _____ cfs

B. Total Hardness of Receiving Stream at Critical Low Flow (If Applicable)
mg/L of CaCO₃

PART B - ADDITIONAL APPLICATION INFORMATION (CONTINUED)

20.6 DESCRIPTION OF TREATMENT

A. WHAT LEVELS OF TREATMENT ARE PROVIDED? Check All That Apply
 Primary Secondary Advanced Other (Describe)

B. INDICATE THE FOLLOWING REMOVAL RATES (AS APPLICABLE)
 Design BOD₅ Removal Or Design CBOD₅ Removal 85% Design SS Removal 85%
 Design P Removal % Design N Removal % Other %

C. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe:
ultraviolet Disinfection April Through October. No Disinfection November - March

If disinfection is by chlorination, is dechlorination used for this outfall? Yes No

Does the treatment plant have post aeration? Yes No

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.

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	VALUE	UNITS	VALUE	UNITS	NO. OF SAMPLES
pH (Minimum)	<u>6.63</u>	S.U.	<u>NA</u>	S.U.	<u>1,070</u>
pH (Maximum)	<u>7.96</u>	S.U.	<u>NA</u>	S.U.	<u>1,070</u>
FLOW RATE	<u>8.21</u>	MGD	<u>1.20</u>	MGD	<u>1,552</u>
TEMPERATURE (Winter)	<u>18.4</u>	°C	<u>1.30</u>	°C	<u>253</u>
TEMPERATURE (Summer)	<u>27.7</u>	°C	<u>24.9</u>	°C	<u>259</u>

*For pH report a minimum and a maximum daily value.

POLLUTANT	MAXIMUM DAILY DISCHARGE		AVERAGE DAILY DISCHARGE			ANALYTICAL METHOD	ML/MDL
	CONC.	UNITS	CONC.	UNITS	NO. OF SAMPLES		

Conventional and Nonconventional Compounds								
BIOCHEMICAL OXYGEN DEMAND (Report One)	BOD ₅							
		<u>9.14</u>	mg/L	<u>2.33</u>	mg/L	<u>220</u>	<u>Hach 10360</u>	<u>0.05/0.20</u>
	<u>—</u>	mg/L	<u>—</u>	mg/L	<u>—</u>	<u>—</u>	<u>—</u>	
FECAL COLIFORM	<u>>2420</u>	#/100 mL	<u>5</u>	#/100 mL		<u>SM 9222D</u>	<u><10/5</u>	
TOTAL SUSPENDED SOLIDS (TSS)	<u>4.25</u>	mg/L	<u>1.35</u>	mg/L	<u>220</u>	<u>SM 2540 D</u>	<u>0.10</u>	
AMMONIA (AS N)	<u>2.6</u>	mg/L	<u>0.34</u>	mg/L	<u>220</u>	<u>USE8 1-3520-85</u>	<u>0.10</u>	
CHLORINE (TOTAL RESIDUAL, TRC)	<u>—</u>	mg/L	<u>—</u>	mg/L	<u>—</u>	<u>—</u>	<u>—</u>	
DISSOLVED OXYGEN	<u>9.46</u>	mg/L	<u>7.40</u>	mg/L	<u>1,070</u>	<u>Hach 10360</u>	<u>±0.1 for 0-8</u>	
TOTAL KJELDAHL NITROGEN (TKN)	<u>—</u>	mg/L	<u>—</u>	mg/L	<u>—</u>	<u>—</u>	<u>—</u>	
NITRATE PLUS NITRITE NITROGEN	<u>—</u>	mg/L	<u>—</u>	mg/L	<u>—</u>	<u>—</u>	<u>—</u>	
OIL AND GREASE	<u>8.4</u>	mg/L	<u>2.85</u>	mg/L	<u>51</u>	<u>EPA 1664 A</u>	<u>5.0</u>	
PHOSPHORUS (TOTAL)	<u>0.5</u>	mg/L	<u>0.37</u>	mg/L	<u>51</u>	<u>EPA 365.3</u>	<u>0.05 mg/L</u>	
TOTAL DISSOLVE SOLIDS (TDS)	<u>—</u>	mg/L	<u>—</u>	mg/L	<u>—</u>	<u>—</u>	<u>—</u>	
OTHER		mg/L		mg/L				

END OF PART B

PART C - CERTIFICATION

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.

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)

DOUG COLVIN PUBLIC WORKS DIRECTOR

SIGNATURE



TELEPHONE NUMBER WITH AREA CODE

417-725-2353

DATE SIGNED

JULY 16, 2014

Upon request of the permitting authority, you must submit any other information necessary to assess wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

For Design Flows Less than 1 Million Gallons Per Day,
Send Completed Form to:

Appropriate Regional Office

Map of regional offices with addresses and phone numbers is available on the Web at www.dnr.mo.gov/regions/ro-map.pdf.

For Design Flows of 1 Million Gallons Per Day or Greater,
Send Completed Form to:

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

END OF PART C.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

Do not complete the remainder of this application, unless:

1. Your facility design flow is equal to or greater than 1,000,000 gallons per day.
2. Your facility is a pretreatment treatment works.
3. Your facility is a combined sewer system.

Submittal of an incomplete application may result in the application being returned. Permit fees for returned applications shall be forfeited. Permit fees for applications being processed by the department that are withdrawn by the applicant shall be forfeited.

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.

FACILITY NAME <i>Nixa WWTF</i>	PERMIT NO. <i>MO-0028037</i>	OUTFALL NO. <i>001</i>
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PART D – EXPANDED EFFLUENT TESTING DATA

40. EXPANDED EFFLUENT TESTING DATA

Refer to the supplemental application information to determine whether Part D applies to the treatment works.

40.1 EFFLUENT TESTING: IF THE TREATMENT WORKS HAS A DESIGN FLOW GREATER THAN OR EQUAL TO 1 MILLION GALLONS PER DAY OR IT HAS (OR IS REQUIRED TO HAVE) A PRETREATMENT PROGRAM, OR IS OTHERWISE REQUIRED BY THE PERMITTING AUTHORITY TO PROVIDE THE DATA, THEN PROVIDE EFFLUENT TESTING DATA FOR THE FOLLOWING POLLUTANTS. PROVIDE THE INDICATED EFFLUENT TESTING INFORMATION FOR EACH OUTFALL THROUGH WHICH EFFLUENT IS DISCHARGED. DO NOT INCLUDE INFORMATION ON 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. INDICATE IN THE BLANK ROWS PROVIDED BELOW ANY DATA YOU MAY HAVE ON POLLUTANTS NOT SPECIFICALLY LISTED IN THIS FORM. EFFLUENT TESTING MUST NOT BE MORE THAN FOUR AND ONE-HALF YEARS OLD.

OUTFALL NUMBER (Complete Once for Each Outfall Discharging Effluent to Waters of the State.)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES			
METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS AND HARDNESS												
ANTIMONY	<0.020	mg/l			<0.020	mg/l				1	EPA 200.7R4.4	<0.020
ARSENIC	<0.020	mg/l			<0.020	mg/l				1	EPA 200.7R4.4	<0.020
BERYLLIUM	<0.0050	mg/l			<0.0050	mg/l				1		<0.0050
CADMIUM	<0.0020	mg/l			<0.0020	mg/l				1		<0.0020
CHROMIUM	<0.0040	mg/l			<0.0040	mg/l				1		<0.0040
COPPER	<0.030	mg/l			<0.030	mg/l				1		<0.030
LEAD	<0.010	mg/l			<0.010	mg/l				1		<0.010
MERCURY	<0.00020	mg/l			<0.00020	mg/l				1		<0.00020
NICKEL	<0.010	mg/l			<0.010	mg/l				1		<0.010
SELENIUM	0.020	mg/l			0.020	mg/l				1		0.01
SILVER	<0.010	mg/l			<0.010	mg/l				1		<0.010
THALLIUM	<0.010	mg/l			<0.010	mg/l				1		<0.010
ZINC	0.053	mg/l			0.053	mg/l				1	↓	0.01
CYANIDE	<0.0050	mg/l			<0.0050	mg/l				1	SM 4500CN C 18 Ed - EPA 835.4	<0.0050
TOTAL PHENOLIC COMPOUNDS	<11	ug/l			<11	ug/l				1	EPA 625	<11
HARDNESS (as CaCO ₃)	200	mg/l			200	mg/l				1	SM 2340 B Ed	0.1

USE THIS SPACE (OR A SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER METALS REQUESTED BY THE PERMIT WRITER.

<i>Aluminum</i>	<i>380</i>	<i>ug/l</i>			<i>125</i>	<i>ug/l</i>				<i>51</i>	<i>EPA 200.7</i>	<i>0.01 mg/L</i>

FACILITY NAME <i>Nixa WWTF</i>	PERMIT NO. MO- <i>0028037</i>	OUTFALL NO. <i>001</i>
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PART D - EXPANDED EFFLUENT TESTING DATA (CONTINUED)

40.1 EXPANDED EFFLUENT TESTING DATA (CONTINUED)

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

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES			
VOLATILE ORGANIC COMPOUNDS												
ACROLEIN	<50	ug/l			<50	ug/l				1	EPA 624	<50
ACRYLONITRILE	<50	ug/l			<50	ug/l				1	EPA 624	<50
BENZENE	<5	ug/l			<5	ug/l				1	EPA 624	<5
BROMOFORM	<5	ug/l			<5	ug/l				1	EPA 624	<5
CARBON TETRACHLORIDE	<5	ug/l			<5	ug/l				1	EPA 624	<5
CHLOROBENZENE	<5	ug/l			<5	ug/l				1	EPA 624	<5
CHLORODIBROMO-METHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
CHLOROETHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
2-CHLORO-ETHYL VINYL ETHER	<5	ug/l			<5	ug/l				1	EPA 624	<5
CHLOROFORM	<5	ug/l			<5	ug/l				1	EPA 624	<5
DICHLOROBROMO-METHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
1,1-DICHLORO-ETHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
1,2-DICHLORO-ETHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
TRANS-1,2-DICHLOROETHYLENE	<20	ug/l			<20	ug/l				1	EPA 624	<20
1,1-DICHLORO-ETHYLENE	<5	ug/l			<5	ug/l				1	EPA 624	<5
1,2-DICHLORO-PROPANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
1,3-DICHLORO-PROPYLENE	<5	ug/l			<5	ug/l				1	EPA 624	<5
ETHYLBENZENE	<5	ug/l			<5	ug/l				1	EPA 624	<5
METHYL BROMIDE	<5	ug/l			<5	ug/l				1	EPA 624	<5
METHYL CHLORIDE	<5	ug/l			<5	ug/l				1	EPA 624	<5
METHYLENE CHLORIDE	<5	ug/l			<5	ug/l				1	EPA 624	<5
1,1,2,2-TETRACHLOROETHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
TETRACHLORO-ETHANE	<5	ug/l			<5	ug/l				1	EPA 624	<5
TOLUENE	<5	ug/l			<5	ug/l				1	EPA 624	<5
3,4-BENZO-FLUORANTHENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
BENZO(GH) PHERYLENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
BENZO(K) FLUORANTHENE	<11	ug/l			<11	ug/l				1	EPA 625	<11

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PART D – EXPANDED EFFLUENT TESTING DATA (CONTINUED)

40.1 EXPANDED EFFLUENT TESTING DATA (CONTINUED)

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

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL
	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES		
BIS (2-CHLOROTHOXY) METHANE	< 11	ug/l			< 11	ug/l			1	EPA 625	< 11
BIS (2-CHLOROETHYL) – ETHER	< 11				< 11				1	EPA 625	< 11
BIS (2-ETHYLHEXYL) PHTHALATE	< 11				< 11				1	EPA 625	< 11
4-BROMOPHENYL PHENYL ETHER	< 11				< 11				1	EPA 625	< 11
BUTYL BENZYL PHTHALATE	< 11				< 11				1	EPA 625	< 11
2-CHLORONAPH-THALENE	< 11				< 11				1	EPA 625	< 11
4-CHLORPHENYL PHENYL ETHER	< 11				< 11				1	EPA 625	< 11
CHRYSENE	< 11				< 11				1	EPA 625	< 11
DI-N-BUTYL PHTHALATE	< 11				< 11				1	EPA 625	< 11
DEBENZO (A,H) ANTHRACENE	< 11				< 11				1	EPA 625	< 11
1,2-DICHLORO-BENZENE	< 11				< 11				1	EPA 625	< 11
1,3-DICHLORO-BENZENE	< 11				< 11				1	EPA 625	< 11
1,4-DICHLORO-BENZENE	< 11				< 11				1	EPA 625	< 11
3,3-DICHLORO-BENZIDINE	< 21				< 21				1	EPA 625	< 21
DIETHYL PHTHALATE	< 11				< 11				1	EPA 625	< 11
DIMETHYL PHTHALATE	< 11				< 11				1	EPA 625	< 11
2,4-DINITRO-TOLUENE	< 11				< 11				1	EPA 625	< 11
2,6-DINITRO-TOLUENE	< 11				< 11				1	EPA 625	< 11
1,2-DIPHENYL-HYDRAZINE	< 11				< 11				1	EPA 625	< 11
1,1,1-TRICHLORO-ETHANE	< 5				< 5				1	EPA 624	< 5
1,1,2-TRICHLORO-ETHANE	< 5				< 5				1	EPA 624	< 5
TRICHLORETHYLENE	< 5				< 5				1	EPA 624	< 5
VINYL CHLORIDE	< 5				< 5				1	EPA 624	< 5
USE THIS SPACE (OR A SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER VOLATILE ORGANIC COMPOUNDS REQUESTED BY THE PERMIT WRITER											

PART D - EXPANDED EFFLUENT TESTING DATA (CONTINUED)

40.1 EXPANDED EFFLUENT TESTING DATA (CONTINUED)

POLLUTANT	MAXIMUM DAILY DISCHARGE				AVERAGE DAILY DISCHARGE					ANALYTICAL METHOD	ML/MDL	
	CONC	UNITS	MASS	UNITS	CONC	UNITS	MASS	UNITS	NO. OF SAMPLES			
BASE-NEUTRAL COMPOUNDS												
ACENAPHTHENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
ACENAPHTHYLENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
ANTHRACENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
BENZIDINE	<84	ug/l			<84	ug/l				1	EPA 625	<84
BENZO(A)ANTHRACENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
BENZO(A)PYRENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
FLUORANTHENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
FLUORENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
HEXACHLOROBENZENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
HEXACHLOROCYCLO-PENTADIENE	<53	ug/l			<53	ug/l				1	EPA 625	<53
HEXACHLOROETHANE	<11	ug/l			<11	ug/l				1	EPA 625	<11
INDENO (1,2,3-CD) PYRENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
ISOPHORONE	<11	ug/l			<11	ug/l				1	EPA 625	<11
NAPHTHALENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
NITROBENZENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
N-NITROSODI-PROPYLAMINE	<11	ug/l			<11	ug/l				1	EPA 625	<11
N-NITROSODI-METHYLAMINE	<11	ug/l			<11	ug/l				1	EPA 625	<11
N-NITROSODI-PHENYLAMINE	<11	ug/l			<11	ug/l				1	EPA 625	<11
PHENANTHRENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
PYRENE	<11	ug/l			<11	ug/l				1	EPA 625	<11
1,2,4-TRICHLOROBENZENE	<11	ug/l			<11	ug/l				1	EPA 625	<11

USE THIS SPACE (OR SEPARATE SHEET) TO PROVIDE INFORMATION ON OTHER BASE-NEUTRAL COMPOUNDS REQUESTED BY THE PERMIT WRITER.

END OF PART D

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

MO 780-1805 (09-08)

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.

FACILITY NAME <i>Nixa WWTF</i>	PERMIT NO. <i>MO-0028037</i>	OUTFALL NO. # <i>001</i>
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PART E - TOXICITY TESTING DATA

50. 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 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 pretreatment 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 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.
 - ◆ If EPA methods were not used, report the reason for using alternative methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the application overview for directions on which other sections of the form to complete.

50.1 REQUIRED TESTS. INDICATE THE NUMBER OF WHOLE EFFLUENT TOXICITY TESTS CONDUCTED IN THE PAST FOUR AND ONE-HALF YEARS.

CHRONIC	ACUTE
	<i>4</i>

INDIVIDUAL TEST DATA. Complete the following chart for the last three whole effluent toxicity tests. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

	MOST RECENT	2 ND MOST RECENT	3 RD MOST RECENT
A. TEST INFORMATION			
TEST NUMBER	<i>EAS Log #1610728</i>	<i>EAS Log #1504916</i>	<i>EAS Log #14400433</i>
TEST SPECIES AND TEST METHOD NUMBER	<i>P. Promelas C. Dubia</i>	<i>P. Promelas C. dubia</i>	<i>P. promelas C. dubia</i>
AGE AT INITIATION OF TEST	<i>1-14 days <24 hrs</i>	<i>1-14 days <24 hrs</i>	<i>1-14 days <24 hrs</i>
OUTFALL NUMBER	<i>#001</i>	<i>#001</i>	<i>#001</i>
DATES SAMPLE COLLECTED	<i>09/23/13-09/24/13</i>	<i>09/10/2012</i>	<i>09/12/11-09/13/11</i>
DATE TEST STARTED	<i>09/25/2014</i>	<i>09/12/2012</i>	<i>09/14/2011</i>
DURATION	<i>48 hours</i>	<i>48 hours</i>	<i>48 hours</i>
B. GIVE TOXICITY TEST METHODS FOLLOWED			
MANUAL TITLE	<i>Methods for Measuring Acute Toxicity of Eff</i>	<i>Methods for Measuring Acute Toxicity of Eff</i>	<i>Methods for Measuring Acute Toxicity of Eff</i>
EDITION NUMBER AND YEAR OF PUBLICATION	<i>5th USEPA 2002</i>	<i>5th USEPA 2002</i>	<i>5th USEPA 2002</i>
PAGE NUMBER(S)	<i>EPA-821-R-02-012</i>	<i>EPA-821-R-02-012</i>	<i>EPA-821-R-02-012</i>
C. GIVE THE SAMPLE COLLECTION METHOD(S) USED. FOR MULTIPLE GRAB SAMPLES, INDICATE THE NUMBER OF GRAB SAMPLES USED.			
24-HOUR COMPOSITE	<i>24 hr comp/30 min</i>	<i>24 hr comp/30 min</i>	<i>24 hr comp/30 min</i>
GRAB			
D. INDICATE WHERE THE SAMPLE WAS TAKEN IN RELATION TO DISINFECTION. (CHECK ALL THAT APPLY FOR EACH)			
BEFORE DISINFECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFTER DISINFECTION	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AFTER DECHLORINATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. DESCRIBE THE POINT IN THE TREATMENT PROCESS AT WHICH THE SAMPLE WAS COLLECTED			
SAMPLE WAS COLLECTED	<i>After UV</i>	<i>After UV Disinfection</i>	
F. FOR EACH TEST, INCLUDE WHETHER THE TEST WAS INTENDED TO ASSESS CHRONIC TOXICITY, ACUTE TOXICITY OR BOTH.			
CHRONIC TOXICITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACUTE TOXICITY	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
G. PROVIDE THE TYPE OF TEST PERFORMED			
STATIC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
STATIC STATIC-RENEWAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW-THROUGH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. SOURCE OF DILUTION WATER. IF LABORATORY WATER, SPECIFY TYPE; IF RECEIVING WATER, SPECIFY SOURCE			
LABORATORY WATER			
RECEIVING WATER	<i>Finley Creek</i>	<i>Finley Creek</i>	<i>Finley Creek</i>

FACILITY NAME <i>Nixa Wastewater Treatment Plant</i>	PERMIT NO. <i>MO-0028037</i>	OUTFALL NO. # <i>001</i>
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PART E - TOXICITY TESTING DATA (CONTINUED)

50.1 WHOLE EFFLUENT TOXICITY TESTS DATA (CONTINUED)

	MOST RECENT	2 ND MOST RECENT	3 RD MOST RECENT
I. TYPE OF DILUTION WATER, IF SALT WATER, SPECIFY "NATURAL" OR TYPE OF ARTIFICIAL SEA SALTS OR BRINE USED.			
FRESH WATER	<i>Natural</i>	<i>Natural</i>	<i>Natural</i>
SALT WATER			
J. GIVE THE PERCENTAGE EFFLUENT USED FOR ALL CONCENTRATIONS IN THE TEST SERIES.			
	<i>6.25%, 12.5%</i>	<i>6.25%, 12.5%</i>	<i>6.25%, 12.5%</i>
	<i>25%, 50%</i>	<i>25%, 50%</i>	<i>25%, 50%</i>
	<i>100%</i>	<i>100%</i>	<i>100%</i>
K. PARAMETERS MEASURED DURING THE TEST. (STATE WHETHER PARAMETER MEETS TEST METHOD SPECIFICATIONS)			
pH	<i>YES</i>	<i>YES</i>	<i>YES</i>
SALINITY	↓	↓	↓
TEMPERATURE	↓	↓	↓
AMMONIA	↓	↓	↓
DISSOLVED OXYGEN	↓	↓	↓
L. TEST RESULTS			
ACUTE:			
PERCENT IN SURVIVAL IN 100% EFFLUENT	<i>100%</i>	<i>100%</i>	<i>100%</i>
LC ₅₀	<i>> 100%</i>	<i>> 100%</i>	<i>> 100%</i>
95% C.I.	<i>> 100%</i>	<i>> 100%</i>	<i>> 100%</i>
CONTROL PERCENT SURVIVAL			
OTHER (DESCRIBE)			
CHRONIC:			
NOEC			
IC ₂₅			
CONTROL PERCENT SURVIVAL			
OTHER (DESCRIBE)			
M. QUALITY CONTROL ASSURANCE			
IS REFERENCE TOXICANT DATA AVAILABLE?	<i>Yes</i>	<i>YES</i>	<i>YES</i>
WAS REFERENCE TOXICANT TEST WITHIN ACCEPTABLE BOUNDS?	<i>Yes</i>	<i>YES</i>	<i>YES</i>
WHAT DATE WAS REFERENCED TOXICANT TEST RUN (MM/DD/YYYY)?	<i>09/04/2013</i>	<i>09/05/2012</i>	<i>09/07/2011</i>
OTHER (DESCRIBE)			

50.2 TOXICITY REDUCTION EVALUATION

Is the treatment works involved in a toxicity reduction evaluation? Yes No
 If yes, describe:

50.3 SUMMARY OF SUBMITTED BIOMONITORING TEST INFORMATION

If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date Submitted (MM/DD/YYYY)

Summary of Results (See Instructions)

END OF PART E

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.

FACILITY NAME <i>Nixa WWTF</i>	PERMIT NO. MO- <i>0028037</i>	OUTFALL NO. # <i>001</i>
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PART E - TOXICITY TESTING DATA

50. 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 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 pretreatment 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 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.
 - ◆ If EPA methods were not used, report the reason for using alternative methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the application overview for directions on which other sections of the form to complete.

50.1 REQUIRED TESTS. INDICATE THE NUMBER OF WHOLE EFFLUENT TOXICITY TESTS CONDUCTED IN THE PAST FOUR AND ONE-HALF YEARS.

CHRONIC	ACUTE <i>4</i>
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INDIVIDUAL TEST DATA. Complete the following chart for the last three whole effluent toxicity tests. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

	<i>4th</i> MOST RECENT	2ND MOST RECENT	3RD MOST RECENT
A. TEST INFORMATION			
TEST NUMBER	<i>EAS Log #1211628</i>		
TEST SPECIES AND TEST METHOD NUMBER	<i>P. promelas C. dubia</i>		
AGE AT INITIATION OF TEST	<i>1-7 days < 24 hr</i>		
OUTFALL NUMBER	<i>#001</i>		
DATES SAMPLE COLLECTED	<i>09/13/10 - 09/14/10</i>		
DATE TEST STARTED	<i>09/15/10</i>		
DURATION	<i>48 hours</i>		
B. GIVE TOXICITY TEST METHODS FOLLOWED			
MANUAL TITLE			
EDITION NUMBER AND YEAR OF PUBLICATION	<i>5th USEPA 2002</i>		
PAGE NUMBER(S)	<i>EPA-821-R-02-012</i>		
C. GIVE THE SAMPLE COLLECTION METHOD(S) USED. FOR MULTIPLE GRAB SAMPLES, INDICATE THE NUMBER OF GRAB SAMPLES USED.			
24-HOUR COMPOSITE	<i>24 hr comp / 30 min</i>		
GRAB			
D. INDICATE WHERE THE SAMPLE WAS TAKEN IN RELATION TO DISINFECTION. (CHECK ALL THAT APPLY FOR EACH)			
BEFORE DISINFECTION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFTER DISINFECTION	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
AFTER DECHLORINATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E. DESCRIBE THE POINT IN THE TREATMENT PROCESS AT WHICH THE SAMPLE WAS COLLECTED			
SAMPLE WAS COLLECTED	<i>After UV Disinfection</i>		
F. FOR EACH TEST, INCLUDE WHETHER THE TEST WAS INTENDED TO ASSESS CHRONIC TOXICITY, ACUTE TOXICITY OR BOTH.			
CHRONIC TOXICITY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ACUTE TOXICITY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G. PROVIDE THE TYPE OF TEST PERFORMED			
STATIC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
STATIC STATIC-RENEWAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FLOW-THROUGH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. SOURCE OF DILUTION WATER. IF LABORATORY WATER, SPECIFY TYPE; IF RECEIVING WATER, SPECIFY SOURCE			
LABORATORY WATER			
RECEIVING WATER	<i>Finley Creek</i>		

FACILITY NAME <i>Nixie WWTF</i>	PERMIT NO. MO- <i>0028037</i>	OUTFALL NO. <i>#001</i>
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PART E – TOXICITY TESTING DATA (CONTINUED)

50.1 WHOLE EFFLUENT TOXICITY TESTS DATA (CONTINUED)

	<i>4th</i> MOST RECENT	2ND MOST RECENT	3RD MOST RECENT
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I. TYPE OF DILUTION WATER, IF SALT WATER, SPECIFY "NATURAL" OR TYPE OF ARTIFICIAL SEA SALTS OR BRINE USED.

FRESH WATER	<i>Natural</i>		
SALT WATER			

J. GIVE THE PERCENTAGE EFFLUENT USED FOR ALL CONCENTRATIONS IN THE TEST SERIES.

	<i>6.25%</i>	<i>12.5%</i>		
	<i>25%</i>	<i>50%</i>		
	<i>100%</i>			

K. PARAMETERS MEASURED DURING THE TEST. (STATE WHETHER PARAMETER MEETS TEST METHOD SPECIFICATIONS)

pH	<i>Yes</i>		
SALINITY	↓		
TEMPERATURE			
AMMONIA			
DISSOLVED OXYGEN			

L. TEST RESULTS

ACUTE:

PERCENT IN SURVIVAL IN 100% EFFLUENT	<i>100%</i>		
LC ₅₀	<i>> 100%</i>		
95% C.I.	<i>> 100%</i>		
CONTROL PERCENT SURVIVAL			
OTHER (DESCRIBE)			

CHRONIC:

NOEC			
IC ₂₅			
CONTROL PERCENT SURVIVAL			
OTHER (DESCRIBE)			

M. QUALITY CONTROL ASSURANCE

IS REFERENCE TOXICANT DATA AVAILABLE?	<i>Yes</i>		
WAS REFERENCE TOXICANT TEST WITHIN ACCEPTABLE BOUNDS?	<i>Yes</i>		
WHAT DATE WAS REFERENCED TOXICANT TEST RUN (MM/DD/YYYY)?	<i>09/02/2010</i>		
OTHER (DESCRIBE)			

50.2 TOXICITY REDUCTION EVALUATION

Is the treatment works involved in a toxicity reduction evaluation? Yes No

If yes, describe:

50.3 SUMMARY OF SUBMITTED BIOMONITORING TEST INFORMATION

If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.

Date Submitted (MM/DD/YYYY)

Summary of Results (See Instructions)

END OF PART E

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.

FACILITY NAME Nix WWTF	PERMIT NO. MO-0028037	OUTFALL NO. # 001
----------------------------------	---------------------------------	-----------------------------

PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

60. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

Refer to the Supplemental Application Information to determine whether Part F applies to the treatment works.

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete this form.

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 SIGNIFICANT INDUSTRIAL USERS, or SIUs AND CATEGORICAL INDUSTRIAL USERS, or CIUs. PROVIDE THE NUMBER OF EACH OF THE FOLLOWING TYPES OF INDUSTRIAL USERS THAT DISCHARGE TO THE TREATMENT WORKS.

A. Number of Non-Categorical SIUs	B. Number of CIUs
-----------------------------------	-------------------

60.3 SIGNIFICANT INDUSTRIAL USER INFORMATION

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, provide the information requested for each. Submit additional pages as necessary.

NAME			
MAILING ADDRESS	CITY	STATE	ZIP

60.4 INDUSTRIAL PROCESSES

DESCRIBE ALL OF THE INDUSTRIAL PROCESSES THAT AFFECT OR CONTRIBUTE TO THE SIU'S DISCHARGE.

60.5 PRINCIPAL PRODUCT(S) AND RAW MATERIAL (S)

Describe all of the principle processes and raw materials that affect or contribute to the SIU's discharge.

PRINCIPAL PRODUCT(S)
RAW MATERIAL(S)

60.6 FLOW RATE

A. PROCESS WASTEWATER FLOW RATE. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day, or gpd, and whether the discharge is continuous or intermittent.

gpd Continuous Intermittent

B. NON-PROCESS WASTEWATER FLOW RATE. Indicate the average daily volume of non-process wastewater discharged into the collection system in gallons per day, or gpd, and whether the discharge is continuous or intermittent.

C.

gpd Continuous Intermittent

60.7 PRETREATMENT STANDARDS

Indicate whether the SIU is subject to the following

A. Local Limits	<input type="checkbox"/> Yes	<input type="checkbox"/> No
B. Categorical Pretreatment Standards	<input type="checkbox"/> Yes	<input type="checkbox"/> No

If subject to categorical pretreatment standards, which category and subcategory?

60.8 PROBLEMS AT THE TREATMENT WORKS ATTRIBUTED TO WASTE DISCHARGED BY THE SIU

Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

Yes No If Yes, describe each episode

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.

FACILITY NAME Nixie WWTF	PERMIT NO. MO- 0028037	OUTFALL NO. #001
------------------------------------	----------------------------------	-------------------------

PART F – INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES (CONTINUED)

60.9 RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE

RCRA WASTE. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?
 Yes No

WASTE TRANSPORT. Method by which RCRA waste is received. (Check all that apply)

Truck Rail Dedicated Pipe

WASTE DESCRIPTION. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA HAZARDOUS WASTE NUMBER	AMOUNT	UNITS

60.10 CERCLA, OR SUPERFUND, WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER AND OTHER REMEDIAL ACTIVITY WASTEWATER

REMEDIAL WASTE. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

Yes No Provide a list of sites and the requested information for each current and future site.

60.11 WASTE ORIGIN

Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

60.12 POLLUTANTS

List the hazardous constituents that are received (or are expected to be received). Included data on volume 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 entering the treatment works?

Yes No

If Yes, describe the treatment (provide information about the removal efficiency):

B. Is the discharge (or will the discharge be) continuous or intermittent?

Continuous Intermittent

If intermittent, describe the discharge schedule:

END OF PART F

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.

MAKE ADDITIONAL COPIES OF THIS FORM FOR EACH OUTFALL.

FACILITY NAME Nixa WWTF	PERMIT NO. MO- 0028037	OUTFALL NO. #001
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PART G – COMBINED SEWER SYSTEMS

70. COMBINED SEWER SYSTEMS (COMPLETE THIS PART IF THE TREATMENT WORKS HAS A COMBINED SEWER SYSTEM.)

Refer to the Supplemental Application Information to determine whether Part G applies to the treatment works.

70.1 SYSTEM MAP

Provide a map indicating the following: (May be included with basic application information.)

- A. All CSO Discharges.
- B. Sensitive Use Areas Potentially Affected by CSOs. (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems and Outstanding Natural Resource Waters.)
- C. Waters that Support Threatened and Endangered Species Potentially Affected by CSOs.

70.2 SYSTEM DIAGRAM

Provide a diagram, either in the map provided above or on a separate drawing, of the Combined Sewer Collection System that includes the following information:

- A. Locations of Major Sewer Trunk Lines, Both Combined and Separate Sanitary.
- B. Locations of Points where Separate Sanitary Sewers Feed into the Combined Sewer System.
- C. Locations of In-Line or Off-Line Storage Structures.
- D. Locations of Flow-Regulating Devices.
- E. Locations of Pump Stations.

70.3 PERCENT OF COLLECTION SYSTEM THAT IS COMBINED SEWER

70.4 POPULATION SERVED BY COMBINED SEWER COLLECTION SYSTEM

70.5 NAME OF ANY SATELLITE COMMUNITY WITH COMBINED SEWER COLLECTION SYSTEM

70.6 CSO OUTFALLS. COMPLETE THE FOLLOWING ONCE FOR EACH CSO DISCHARGE POINT

70.7 DESCRIPTION OF OUTFALL

- A. Outfall Number
- B. Location

C. Distance from Shore (if applicable)
_____ ft

D. Depth Below Surface (if applicable)
_____ ft

E. Which of the following were monitored during the last year for this CSO?

- Rainfall CSO Pollutant Concentrations CSO CSO Flow Volume Receiving Water Quality

F. How many storm events were monitored last year?

70.8 CSO EVENTS

A. Give the Number of CSO Events in the Last Year
_____ Events Actual Approximate

B. Give the Average Duration Per CSO Event
_____ Hours Actual Approximate

C. Give the Average Volume Per CSO Event
_____ Million Gallons Actual Approximate

D. GIVE THE MINIMUM RAINFALL THAT CAUSED A CSO EVENT IN THE LAST YEAR _____ INCHES OF RAINFALL

70.9 DESCRIPTION OF RECEIVING WATERS

A. Name of Receiving Water

B. Name of Watershed/River/Stream System

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

Name of State Management/River Basin

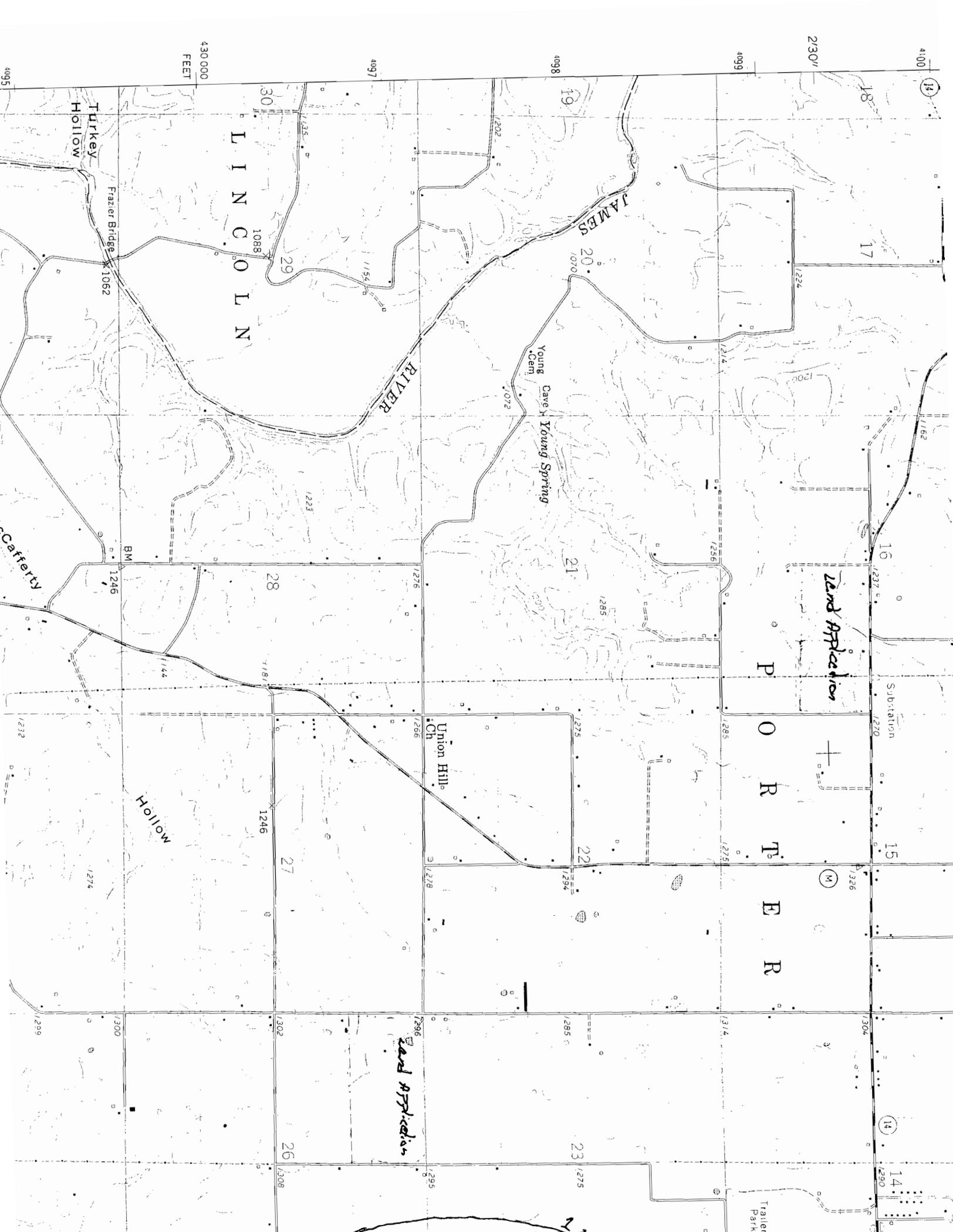
U.S. Geological Survey 8- Digit Hydrologic Cataloging Unit Code (If Known)

70.10 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 OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM B2 YOU MUST COMPLETE.



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14

14

14

2130'

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1246

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Substation

Land Application

P O R T E R

(M)

Land Application

Trailer Park

JAMES RIVER

L I N C O L N

TURKEY HOLLOW

Frazier Bridge

BM

Hollow

Union Hill

Young Cave & Young Spring

Young Cem.

Cafferty

P O R T E R

Cave 7194

1261

1213

1206

1196

STONE CO
CHRISTIAN CO

S S

RIVER

Spring

Craig

Spring

Hollow

Pinley

Creek

Riverdale Ch

Glenn Cem

Jones Cem

BR 1074

BM 1220

1224

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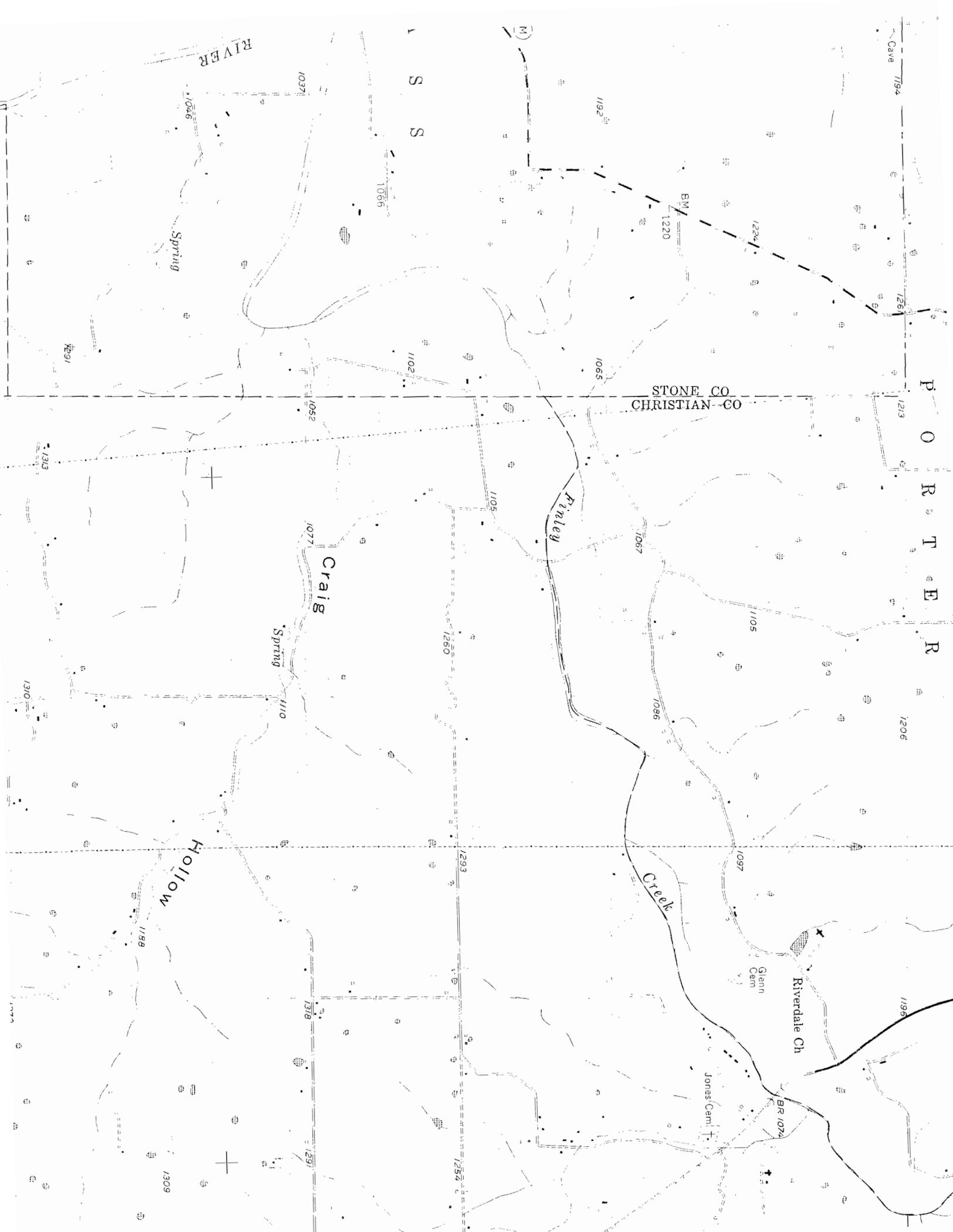
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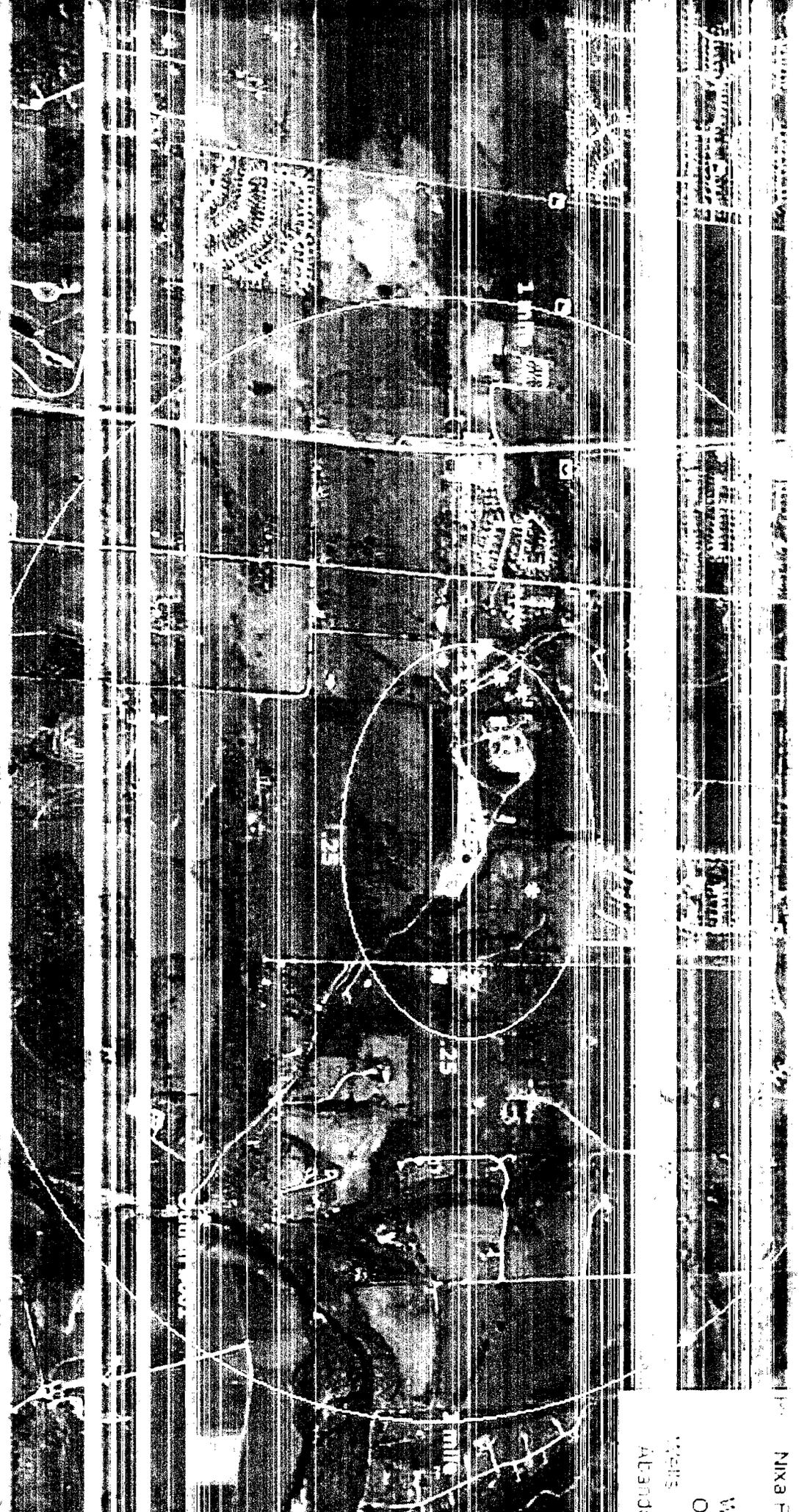
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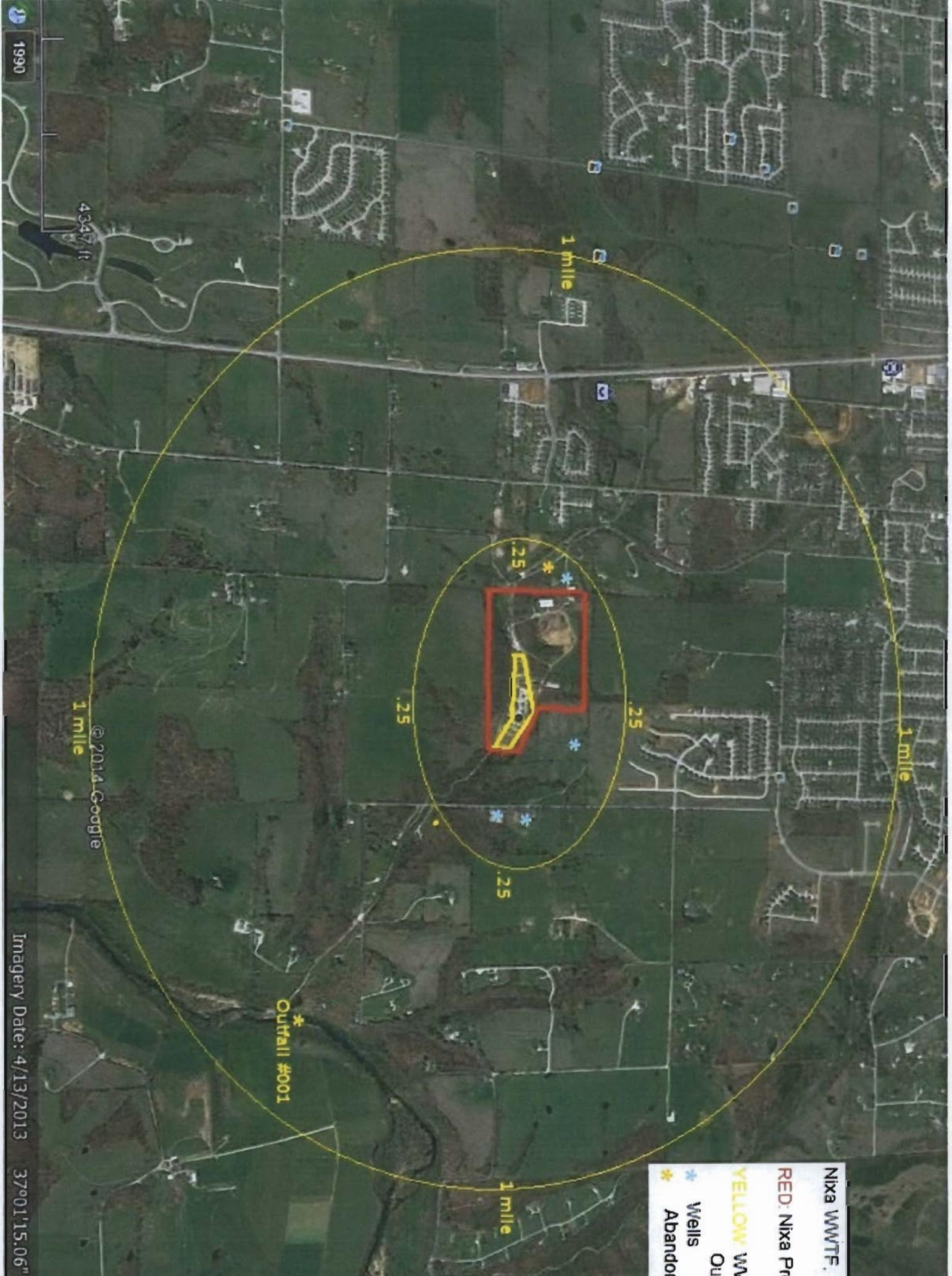
45° 11'

©2014 Google



NIXA P...
 WW
 OU

ABERDEEN



Nixa WWTF, N

RED: Nixa Pro

YELLOW WW

Out

* Wells

* Abandon

* Outfall #001

© 2014 Google
1 mile

1990

Imagery Date: 4/13/2013

37°01'15.06"

**Nixa Wastewater Treatment Facility
Sludge Storage**

1. Sludge Holding Tank
2. Sludge Holding Tank
3. Sludge Holding Tank
4. Sludge Holding Tank
5. Belt Pressed Sludge Storage Compost Active Phase
6. Compost Curing Phase

491 ft

© 2014 Google

1996

Imagery Date: 4/13/2013

37°01'23.10"

**Nixa Wastewater
Treatment Plant**



972 Old Riverdale Rd, Nixa, MO 65714, USA

**Nixa
Wastewater
Outfall**



2548 ft

© 2013 Google

Imagery Date: 4/13/2013 37°01'04.12" N 93°16'39.12" W

Wastewater Treatment
Return Activated
Waste Activated



- #1 - Fine Screen
- #2 - Grit/Grease Removal
- #3 - Pump Station
- #4 - Diversion Structure
- #5 - #1 AZO
- #6 - #2 AZO
- #7 - #1 Clarifier
- #8 #2 Clarifier
- #9 - Filters
- #10 - UV Disinfection
- #11 - #1 Sludge Holding Tank
- #12 - #2 Sludge Holding Tank
- #13 - #3 Sludge Holding Tank
- #14 - Final Sludge Holding Tank

- #15 - #3 AZO
- #16 - #3 Clarifier
- #17 - #4 Clarifier
- Equipment not in use

NIXA Wastewater Treatment Facility
MO-0028037

MECHANICAL FINE SCREEN:

Flow prior to the fine screen is 2-3 fps. The screen is designed to collect debris >1/4". The screenings are dropped into a "washer" where organics are dislodged from the screenings and returned to the treatment flow. Screenings/trash are then compacted and disposed to a land fill.

GRIT AND GREASE REMOVAL: 68 MINUTES

The grit and grease basin volume is .057 MG. Solids are maintained in suspension by aeration. Heavier solids, inert material, fall to the bottom of tank and are pumped from the bottom of the tank to a grit classifier. At the classifier the settled solids are conveyed to a trash bin. The sewage is returned to the treatment flow.

The grease floats to the surface where air blows the floating grease to a screw type conveyor. The grease is deposited to a trash bin.

The removed grit and grease are disposed of to a landfill.

PUMP STATION: 18 MINUTES

The pump station is equipped with 3, 100HP pumps.

Diversion Structure: FLOW THROUGH

At the diversion structure, the flow from the pump station is directed to one, two or all three of the anaerobic/anoxic/oxidation trains.

ANAEROBIC/ANOXIC/OXIDATION: 2.3 days

Currently two A2Os are being used for treatment. The total volume of these two A2Os being used is 2.736MG.

CLARIFIER: 0.8 DAYS

Flow from the A2Os goes to clarifiers. Currently one clarifier is being used. The volume of the clarifier in use is 0.950 MG.

RETURN ACTIVATED SLUDGE:

Return activated sludge from the clarifier is returned the anaerobic zone of the A2Os in use.

TERTERARY TREATMENT: 15 MINUTES

Effluent from the clarifier is filtered by Aqua Aerobic filters. Each filter have ten discs that are cover with a cloth membrane. The filters remove substances greater than ten microns. The treatment plant has four filtration units. Two of the filtration units are currently being used.

ULTRAVIOLET LIGHT DISENFECTION: FLOW THROUGH

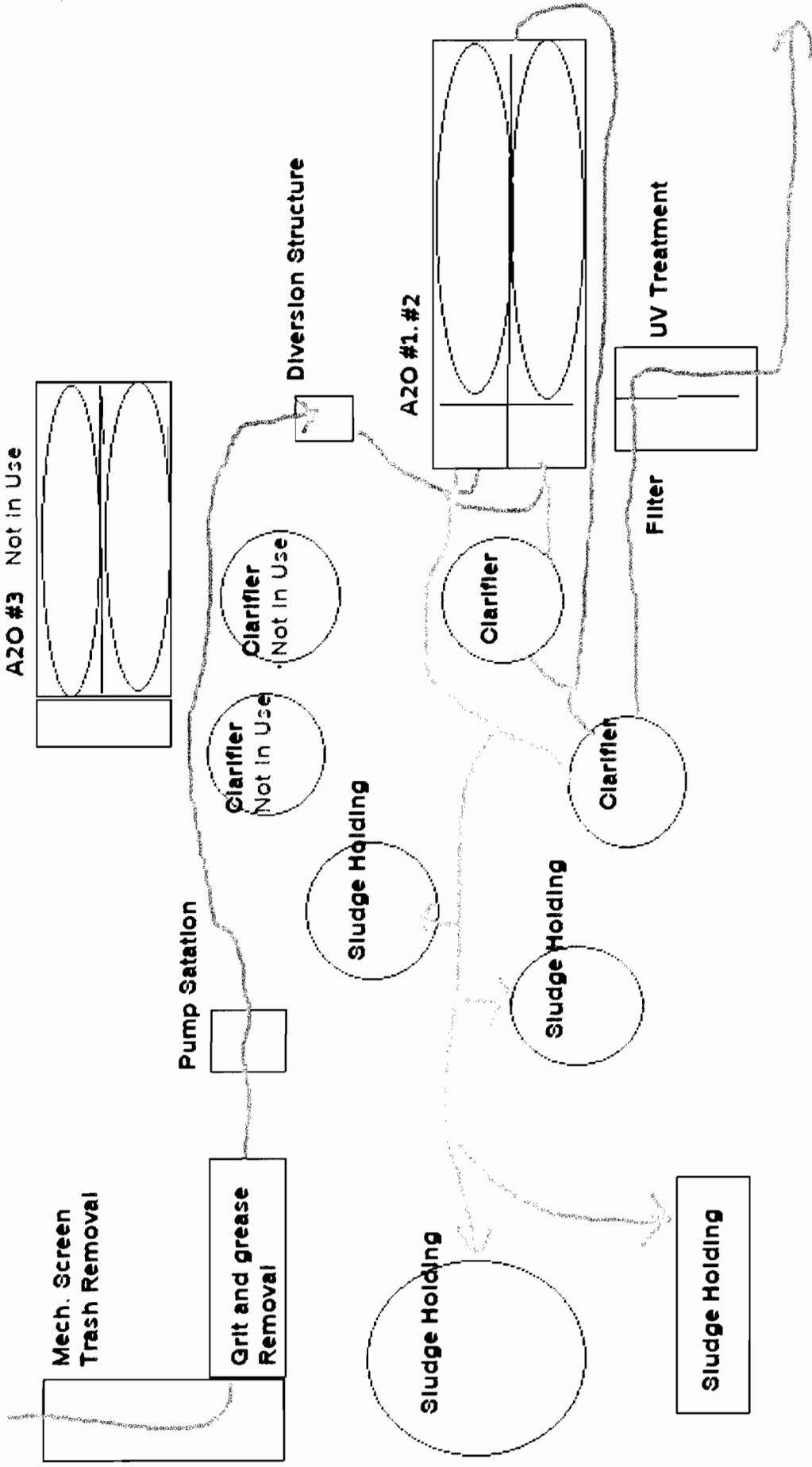
Flow from the filters is disinfected by a Trojan 3000PLUS UV system. The flow through the UV system is approximately 1-3 fps.

OUTFALL #001:

The effluent from the treatment plant flows through a pipe approximately one mile to the outfall at Finley Creek.

WASTE ACTIVATED SLUDGE:

Daily a portion of the RAS is directed to waste pumps. Waste activated sludge is pumped to intermediate Sludge Holding Tanks. After a series of dewatering and addition of solids to the intermediate sludge tanks the sludge is pumped to the final sludge holding. Sludge from the final sludge holding tank are land applied or belt pressed for composting.



STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor Mark N. Templeton, Director

www.dnr.mo.gov

August 18, 2010

NOTICE OF VIOLATION #13294SW

Mr. Brian Bingle
City of Nixa
P. O. Box 395
Nixa, MO 65714

RE: City of Nixa WWTF

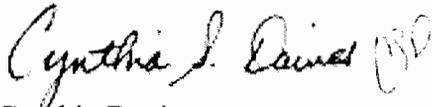
Dear Mr. Bingle:

Please find enclosed a copy of sample results collected during the investigation regarding the City's sewage bypass, which occurred on June 21, 2010. Notice of Violation #13294SW is enclosed for violations of the Missouri's Clean Water Law that occurred as a result of the bypass.

Your written report that was received in this office on June 24, 2010 will serve as a response to this Notice of Violation. If you have questions, please contact Ms. Gwenda J. Bassett by calling 417-891-4300 or via mail at Southwest Regional Office, 2040 West Woodland, Springfield, Missouri 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE



Cynthia Davies
Regional Director

CSD/gbs

Enclosures

c: Water Pollution Control Branch, Enforcement Section

043.wpcp.NixaCityOf.mo0028037.x.2010.08.18.fy11.spillsam.nov13294sw.gjb.doc





MISSOURI DEPARTMENT OF NATURAL RESOURCES
NOTICE OF VIOLATION

VIOLATION NUMBER
13294SW

DATE AND TIME ISSUED
 August 18, 2010

SOURCE (NAME, ADDRESS, PERMIT NUMBER, LOCATION)
 Nixa WWTF

972 S. Old Riverdale Rd., Nixa, MO 65714

MO-0028037

SW ¼ , SE ¼ , Sec. 30, T27N, R21W

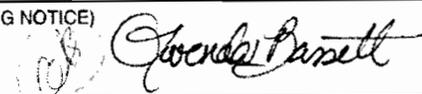
MAILING ADDRESS P. O. Box 395	CITY Nixa	STATE MO	ZIP CODE 65714
----------------------------------	--------------	-------------	-------------------

NAME OF OWNER OR MANAGER City of Nixa	TITLE OF OWNER OR MANAGER Owner
--	------------------------------------

LAW, REGULATION OR PERMIT VIOLATED

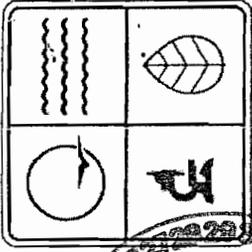
Missouri Clean Water Law Sections 644.051.1(1) and 644.076.1

NATURE OF VIOLATION	DATE(S):	TIME(S):
<p>The City of Nixa caused pollution of an unnamed tributary to Spout Spring Hollow, waters of the state, or placed or caused or permitted to be placed, water contaminants in a location where they are reasonably certain to cause pollution of waters of the state.</p>		

SIGNATURE (PERSON RECEIVING NOTICE) Sent Via US Mail	SIGNATURE (PERSON ISSUING NOTICE) Gwenda Bassett 
---	---

TITLE OR POSITION	TITLE OR POSITION Environmental Specialist/SWRO
-------------------	--

Missouri Department of Natural Resources
Environmental Services Program



Order ID 100623003
Report Date: 07/20/2010

Program, Contact: WPC Lance Dorsey
LDPR/JobCode: FECMT



Sample: AB27264



Customer #: 1004171

UTM-Easting
UTM475354E

Northing
UTM4098999N

Facility ID: MO0028037
County: Christian

Collector: GWENDA J. BASSETT

Entry Point:

Sample Comment: Stream grab sample, upstream of bypass about 30 feet.

Precision

Collect Date: 6/22/2010 7:50:00AM



Parameter	Result	Qualifier	Units	QC Batch ID	Method
Ammonia as N	0.060		mg/L	6,030	EPA 350.1
Biochemical Oxygen Demand	<2	ND	mg/L	5,766	SM 5210-C
Field Dissolved Oxygen	5.04		mg/L		SM 4500-O-G
Field pH	7.18		pH Units		EPA 150.1
Field Temperature	21.5 C				EPA 170.1

Sample: AB27265



Customer #: 1004172

UTM-Easting
UTM475428E

Northing
UTM4098999N

Facility ID: MO0028037
County: Christian

Collector: GWENDA J. BASSETT

Entry Point:

Sample Comment: Stream grab sample, downstream of bypass about 30 feet.

Precision

Collect Date: 6/22/2010 8:20:00AM

Parameter	Result	Qualifier	Units	QC Batch ID	Method
Ammonia as N	0.10		mg/L	6,030	EPA 350.1
Biochemical Oxygen Demand	<2	ND	mg/L	5,766	SM 5210-C
Field Dissolved Oxygen	4.53		mg/L		SM 4500-O-G
Field pH	7.76		pH Units		EPA 150.1
Field Temperature	21.4 C				EPA 170.1



CONSULTING ANALYTICAL SERVICES INTERNATIONAL, INC.

2804 EAST BATTLEFIELD • SPRINGFIELD, MISSOURI 65804-4014 • 417.882.1017 • 417.882.1018

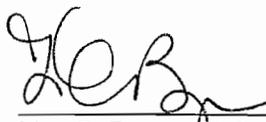


MISSOURI DEPARTMENT OF NATURAL RESOURCES
2040 West Woodland
Springfield, Missouri 65807

July 12, 2010
Page 3

Attention: Mr. Kevin Hess

CaSi File/Case/Log Number	0670/101809/2908
Site	City of Nixa bypass, upstream
Sample Identity	1004173
Permit Number	MO-0028037
Collection Date/Time	06-22-10, 07:50
Receipt in Lab Date/Time	06-22-10, 10:38
Collector's Initials	GJB
Sample Treatment/Preservative	Na ₂ S ₂ O ₃ /Ice
Analysis Initiated Date/Time	06-22-10, 14:35
Analysis Complete Date/Time	06-23-10, 13:02
Fecal Coliform, CFU/100 milliliters, 9222 D	300
E. Coli, MPN/100 milliliters, 9221 F	37
Comments	



Lisa C. Berger, M.S.
President

07-12-10

Date



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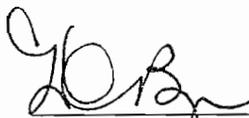
MISSOURI DEPARTMENT OF NATURAL RESOURCES
2040 West Woodland
Springfield, Missouri 65807



July 12, 2010
Page 4

Attention: Mr. Kevin Hess

CaSi File/Case/Log Number	0670/101810/2908
Site	City of Nixa bypass, downstream
Sample Identity	1004174
Permit Number	MO-0028037
Collection Date/Time	06-22-10, 08:20
Receipt in Lab Date/Time	06-22-10, 10:38
Collector's Initials	GJB
Sample Treatment/Preservative	Na ₂ S ₂ O ₃ /Ice
Analysis Initiated Date/Time	06-22-10, 14:35
Analysis Complete Date/Time	06-23-10, 13:02
Fecal Coliform, CFU/100 milliliters, 9222 D	4,700
E. Coli, MPN/100 milliliters, 9221 F	1,100
Comments	


Lisa C. Berger, M.S.
President

07-12-10
Date

ATTN: STUART VENABLE

COPY



Jeremiah W. (Jay) Nixon, Governor * Kip A. Stetzler, Acting Director

DEPARTMENT OF NATURAL RESOURCES

dnr.mo.gov

November 29, 2010

LETTER OF WARNING

City of Nixa
P.O. Box 395
Nixa, MO 65714

RE: MISSOURI STATE OPERATING PERMIT NUMBER MO0028037

Dear Permittee:

After review of your Discharge Monitoring Report(s) (DMR), it has come to our attention that the effluent limitations in your Missouri State Operating Permit (MSOP) have been exceeded. The effluent limitations established in your permit and the values reported in your DMR for September 2010 are as follows:

Table with 5 columns: Outfall, Months, Parameter, Permit Limitations, Reported Values. Row 1: 001, 9/10, Fecal Coliform, 1000 colonies per 100 mL daily maximum, 2260 colonies per 100 mL

An exceedance of the effluent limitations established in your permit is a violation of the Missouri Clean Water Law, Section 644.051.1(3) and 644.076.1, Clean Water Commission Regulation 10 CSR 20-7 and your MSOP. The Missouri Department of Natural Resources (Department) monitors and tracks instances of noncompliance related to DMRs. All facilities that are significantly noncompliant are reported to the Environmental Protection Agency and the Department then takes action to ensure their return to compliance. It is the policy of this office to require facilities with a history of significant noncompliance to sign a Schedule of Compliance that outlines corrective measures to be taken within a specified time period. You are encouraged to take appropriate steps to eliminate the current violation.

On October 9, 2010, the Southwest Regional Office received an explanation on your DMR about the violations that occurred and corrective actions you have taken to resolve them. Thank you for your prompt attention to this matter.

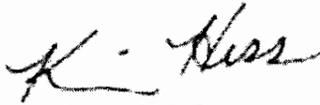
City of Nixa
November 29, 2010
Page2

COPY

We appreciate your cooperation and immediate attention so that these violations can be corrected. If you have questions please contact Ms. Lana Cypret, Technical Assistant by calling 417-891-4300 or via mail at Southwest Regional Office, 2040 W. Woodland, Springfield, Missouri 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE



Kevin Hess, Chief ~~KA~~
Water Pollution Section

KH/lcg



Nixa Public Works
1010 N. Eaglecrest
Nixa, Missouri 65714
417-725-2353
www.nixa.com

COPY

July 12, 2013

Ms. Cynthia S. Davies, Regional Director
Southwest Regional Office
2040 West Woodland
Springfield, MO 65807-5912

Re: City of Nixa Wastewater Treatment Facility
Response to July 8, 2013 Notice of Fecal Coliform Violation

Dear Ms. Davies:

In response to your Letter of Violation dated July 8, 2013 concerning the exceedance of our Fecal Coliform effluent limits in April, 2013, I would offer the following explanation.

Effluent sample Fecal Coliform tests performed by PDC Laboratories for April 10 and April 12 samples showed results of 2400 colonies per 100 mL and greater than 2420 colonies per 100 mL respectively, but subsequent tests by PDC, CASI and the City showed Fecal Coliform results for the remainder of April and for May showed low levels of Fecal Coliform. No changes were made in our laboratory procedure and no problems were discovered with any of our UV disinfection equipment. It appears that the only variable is the testing procedure used by the two different laboratories and the City. PDC uses the IDEXX Colilert 18 procedure while CASI and the City use the Standard Methods 9222D procedure. Please see attached letter from PDC Laboratories. We feel the exceedance was a false positive because of the testing method used by PDC Laboratories.

Please contact me if you have any questions or need additional information.

Sincerely,

A handwritten signature in cursive script that reads "Milton Dickensheet".

Milton Dickensheet, P.E.
Water Quality Superintendent

C: Doug Colvin, Public Works Director
Stuart Venable, Asst. Water Quality Supt. – Wastewater

Submitted via
April's DMR

May 20, 2013

Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912

Re: Nixa WWTF Permit No. MO-0028037

Dear Sirs:

On 4/12/13 I received an email from PDC's Springfield laboratory reporting a fecal coliform result of 2400 MPN/100 ml for the effluent sample from 4/10/13. Nixa's permit limit for effluent fecal coliform is a daily maximum of 1000 colonies/100 ml and a monthly average of 400 colonies/100 ml. I contacted Greg Perkins at the MDNR Southwest Regional office and reported this result. We agreed that I would re-sample and report the results to him on Monday 4/15/13. Prior to re-sampling I reviewed my sampling procedures and the UV disinfection system performance during the sampling period. After a thorough inspection I found no problems with the UV disinfection system.

I sampled the effluent and delivered the sample to the PDC Springfield laboratory. I also collected a sample for the Nixa wastewater treatment plant in-house laboratory. On Saturday, 4/13/13, the fecal coliform result from our in-house laboratory was <20 colonies/100 ml. On Monday, 4/15/13, PDC Laboratory reported a result of >2420 MPN/ 100 ml. I reported these results to Greg Perkins the same day. We agreed I would re-sample and deliver the sample to PDC's Springfield laboratory and to CaSi. I would also analyze the sample at Nixa's wastewater treatment plant's laboratory.

The results for 4/15/13 sampling were; PDC <1.0 MPN/100 ml, CaSi <10.0 colonies/100 ml and Nixa's treatment plant laboratory has a result of <20 colonies /100 ml.

During my discussions with Chad Cooper, PDC Laboratories, he mentioned, "The samples from 4/10/13 and 4/12/13 displayed a unique pale yellow coloring evenly distributed across the quantitray. There was a possible interference in these samples".

The procedure PDC uses for fecal coliform is IDEXX Colilert 18. Please see letter from PDC, which is attached. CaSi and the Nixa wastewater treatment plant laboratories use SM 9222D procedures.

I believe the results from 4/10/13 and 4/12/13 are false positives. There were no problems with the UV disinfection system during these sampling periods. Fecal coliform results from before and after April 10, 12, 2013 are <1 and <10 colonies/100 ml.

I am not allowed to report the results from the Nixa treatment laboratory. I did not complete all of the QA/QC from Standard Methods as instructed.

I will report the results from April 10, 12, 2013.

Sincerely,

Stuart Venable
Assistant Water Quality Superintendent, Wastewater



PDC Laboratories, Inc.

1805 W. Sunset • Springfield, MO 65807
(417) 864-8924 • FAX (417) 864-7081

Stuart Venable
City of Nixa

Fecal Samples

Dear Mr. Venable:

Fecal coliform samples 3041462 sampled 4-10-13 and 3042100 sampled 4-12-13 displayed a unique pale yellow coloring evenly distributed across the wells of the quanti-tray. This pale yellow coloring was darker than the comparator, so by the method these wells were counted as positive. Typically in positive samples we see multiple shades of yellow in the wells of the quanti-tray caused by different amounts of fecal coliform bacteria in each well. This leads us to believe that there was a possible interference in these samples. The only known interference for this method is the overwhelming presence of non-target organisms. The IDEXX Colifert 18 media is designed to suppress non-target organisms that produce the same target enzymes but in the event that counts of non-target organisms are greater than 2 million colonies per 100 mL they can cause a false positive.

We apologize for the confusion that this has caused and have taken note of the possible interference for future reference.

Sincerely,
Chad Cooper

A handwritten signature in black ink, appearing to read "Chad Cooper", is written over a light blue horizontal line.

Environmental Chemist
PDC Laboratories, Inc.
1805 W. Sunset
Springfield, MO 65807
www.pdcslab.com

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

www.dnr.mo.gov

February 7, 2013

LETTER OF WARNING

City of Nixa
P.O. Box 395
Nixa, MO 65714

RE: MISSOURI STATE OPERATING PERMIT NUMBER MO0028037

Dear Permittee:

A review of your Discharge Monitoring Report(s) (DMR) for the monitoring period ending in **November 2012** shows that the effluent limitations established in your Missouri State Operating Permit (MSOP) have been exceeded. The effluent limits and the values that have exceeded those effluent limits are listed below.

Outfall	Months	Parameter	Permit Limitations	Reported Values
001	11/12	Total Recoverable Aluminum	374 ug/L monthly average	380 ug/L

An exceedance of the effluent limitations established in your permit is a violation of the Missouri Clean Water Law, Section 644.051.1(3) and 644.076.1, Clean Water Commission Regulation 10 CSR 20-7 and your MSOP. The facility is responsible for taking appropriate steps to eliminate the violation(s).

Please provide a written response within 15 calendar days of receipt of this letter to the Department which explains the reason(s) for the non-compliance and what steps your operation has taken or will take to prevent a reoccurrence of the violation(s). The facility will be considered in non-compliance with the violation(s) and our files will reflect the continued non-compliance until the documentation is submitted to this office. If you have already provided this information to the Department, you may disregard this request.

We appreciate your cooperation and immediate attention so that violations can be corrected. If you have questions please contact water pollution staff by calling 417-891-4300 or via mail at Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807-5912.

Sincerely,

SOUTHWEST REGIONAL OFFICE



Kevin Hess, Chief
Water Pollution Section

KH/lcj

043.wpcp.NixaCityOf.mo0028037.x.2013.02.07.fy13.low.x.lgc.doc



Nixa Public Works
1010 N. Eaglecrest
Nixa, Missouri 65714
417-725-2353
www.nixa.com

February 15, 2013

Mr. Kevin Hess, Chief
Water Pollution Section, MDNR
Southwest Regional Office
2040 West Woodland
Springfield, MO 65807-5912

Re: City of Nixa Wastewater Treatment Facility
Response to February 7, 2013 Letter of Warning

Dear Mr. Hess:

In response to your Letter of Warning dated February 7, 2013 concerning the exceedance of our Total Recoverable Aluminum effluent limit in November, 2012, I would offer the following explanation.

On August 27, 2012, our operators started adding alum at a second location in the wastewater treatment plant process at the clarifier effluent structure. The intent was to help reduce the phosphorous level in our effluent and hopefully reduce the total amount of alum added to the treatment process. Previously, the only place where alum was added was at the effluent structure for the oxidation ditches. It appears that this effort resulted in an increase in the amount of aluminum in the effluent. After receiving your letter, our operators stopped adding alum at the clarifier on Monday, February 11, 2013.

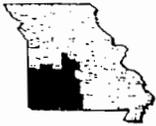
Please contact me if you have any questions or need additional information.

Sincerely,

A handwritten signature in cursive script that reads "Milton Dickensheet".

Milton Dickensheet, P.E.
Water Quality Superintendent

C: Doug Colvin, Public Works Director
Stuart Venable, Asst. Water Quality Supt. – Wastewater



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name) <i>City of Nixa Wastewater Treatment Plant</i>	Permit Number <i>MO-0028037</i>	Overflow or Bypass Reported to MDNR	
		Date <i>10:00</i>	Time <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR <i>Stuart Venable</i>	County <i>Christian</i>	MDNR Office and Person Contacted <i>Craig Reichert</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date <i>3/21/10</i>	Time (to nearest 15 minutes) <i>unknown</i> <input type="checkbox"/> am <input type="checkbox"/> pm	End Date <i>3/21/10</i>	Time (to nearest 15 minutes) <i>2:30</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) <i>unknown</i>		Estimated Volume of Wastewater Discharged (gallons) <i>100-200 gallons</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location) <i>207 Hightower, basement of residence</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input checked="" type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input checked="" type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Effluent Weir/Flume <input type="checkbox"/>			
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Blockage occurred in manhole located @ corner of Gold St. & Wildwood Ave. Debris causing blockage include sticks, bricks, short 2"x4"s, rocks.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: Absorbed into carpeting of residence.

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Washed & removed debris from sewer main & manhole. Checked manholes in the basin of the sewer line where SSB occurred. Manholes were inspected for debris & integrity of manhole cover lid & frame.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <u>Stuart Venable</u>	Title <u>Water Quality Asst. Supt. / Waste Water</u>
Authorized Representative Signature <u>Stuart Venable</u>	Date <u>3/23/10</u>

File



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name) <i>City of Nixa, MO Wastewater Plant</i>	Permit Number <i>MO-0028037</i>	Overflow or Bypass Reported to MDNR	
		Date <i>3/31/10</i>	Time <i>10:44</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR <i>Stuart Venable</i>	County <i>Christian</i>	MDNR Office and Person Contacted <i>Chuck Greeson</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date <i>3/30/10</i>	Time (to nearest 15 minutes) <i>7:30</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	End Date <i>3/30/10</i>	Time (to nearest 15 minutes) <i>8:15</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) <i>45 minutes - 1 hour</i>		Estimated Volume of Wastewater Discharged (gallons) <i>500 gallons</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location) <i>991 South Hedge, Nixa, MO</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input checked="" type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input checked="" type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Effluent Weir/Flume <input type="checkbox"/>			
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Floats failed due to grease & debris build up in wet well.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

*schedule this lift station for more frequent cleaning/maintenance.
Lift station ID: Rolling Hills subdivision
Location: Inman RD., Nixa, MO*

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <i>Stuart Versible</i>	Title <i>Water Quality Asst. Supt. Waste Water</i>
Authorized Representative Signature <i>Stuart Versible</i>	Date <i>3/31/10</i>



Self Reporting Form For Wastewater Bypasses



- Notice:** Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
 - Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information		Overflow or Bypass Reported to MDNR	
Permittee (Municipality or Facility Name)	Permit Number	Date	Time
CITY OF NIXA	MO-0028037	4/14/2010	9:22 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
MILTON DICKENSHEET	CHRISTIAN	TINA WHITE	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
4/13/2010	4:10 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	4/13/2010	4:50 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
45-60 minutes		500-1000 gallons	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
1204 SHERWOOD CT. NIXA, MO 65714			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input checked="" type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input checked="" type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

CONTRACTOR DOING YARD WORK AT HOUSE UNDER CONSTRUCTION AT 1123 W. SCENIC HILLS DRIVE KNOCKED A MANHOLE FRAME + COVER OFF MANHOLE AND GRADED DIRT + ROCKS INTO THE MANHOLE IN THE PROCESS. HE REPLACED FRAME + COVER, LEFT THE ROCKS + DIRT IN THE MANHOLE + DID NOT NOTIFY THE CITY.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall *N/A - NO RECENT RAINFALL*

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: *POOLED ON SURFACE OF PAVED DITCH TRIBUTARY TO A DETENTION BASIN*

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

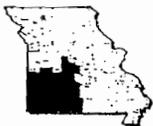
THE CITY CREWS HAVE USED THE VACTOR TRUCK TO REMOVE THE ROCKS + DIRT FROM THE MANHOLE DOWNSTREAM FROM SCENIC HILLS DRIVE + WILL HOPEFULLY FINISH FLUSHING + CLEANING ROCKS + DIRT FROM THE DOWNSTREAM SEWER LINES BY THE END OF THE DAY ON THURSDAY, APRIL 15, 2010.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print)	Title
<i>MILTON DICKENSHEET</i>	<i>WATER QUALITY SUPERINTENDENT</i>
Authorized Representative Signature	Date
<i>Milton Dickensheet</i>	<i>4/15/2010</i>

File Copy



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
<i>City of Nixa</i>	<i>MO-0028037</i>	Date	Time
		<i>May 18, 2010</i>	<i>3:10 pm</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
<i>Stuart Venable</i>	<i>christian</i>	<i>Craig Reichert</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
<i>May 18, 2010</i>	<i>8:30</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	<i>May 18, 2010</i>	<i>9:00</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
<i>30 min</i>		<i>500 gallon</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
<i>Sunrise Canyon sub. division, behind back yards on Sunrise street</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input checked="" type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Effluent Weir/Flume
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

A stick in the manhole with trash collected on the stick plugged the line.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	
Contributing Soil Conditions (saturated, frozen, soil type)			

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

Runs on ground and absorbs into the soil.

Ditch. Name of surface water it drains to: _____

Storm sewer. Name of surface water it drains to: _____

Surface water direct discharge: _____

Other, describe: _____

Actions to Correct this Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Applied lime to overflow area. Continue w/ preventive sewer line maintenance, jetting & camera.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <i>Stuart Venable</i>	Title <i>Water Quality Asst. Supt. Wastewater</i>
Authorized Representative Signature <i>Stuart Venable</i>	Date <i>May 20, 2010</i>



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa	MO-0028037	Date	Time
		6/21/10	3:15 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
Stuart Venable	christian	Johnathon Blodgett	
Overflow/Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
Est. 6/18/2010	unknown <input type="checkbox"/> am <input type="checkbox"/> pm	6/21/10	3:30 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
Pump station 0.8hr/day 4 days		27264 gallons	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
East of Gallup Hill & Elegant Dr			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	Pumping station force main pipe failure
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input checked="" type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Effluent Weir/Flume
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Crack in pump station force main pipe.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
		6/21/10	3:30

Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: Spread Spring Hollow
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Force main / SSO area located
 shut off pump station
 Dammed SSO run off
 Repaired Force Main
 collected SSO from dammed area

Prevent SSO Plan:
 continue with monitoring pump stations & maintenance of collection system.
 Implement maintenance of force main location, brush removed, brush hog area annually.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <u>Stuart Venable</u>	Title <u>Water Quality Asst. Supt. / Wastewater</u>
Authorized Representative Signature <u>Stuart Venable</u>	Date <u>6/24/10</u>



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name) <i>City of Nixa</i>	Permit Number <i>MO-0028037</i>	Overflow or Bypass Reported to MDNR	
		Date <i>7-06-2010</i>	Time <i>09:50</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR <i>Stuart Venable</i>	County <i>Christian</i>	MDNR Office and Person Contacted <i>Johnathon Blodgett</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date <i>7-05-2010</i>	Time (to nearest 15 minutes) <i>10:15</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	End Date <i>7-05-2010</i>	Time (to nearest 15 minutes) <i>11:20</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) <i>1 hour</i>		Estimated Volume of Wastewater Discharged (gallons) <i>3000</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location) <i>Oakmont Lift Station 1321 Woodcastle Rd</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input checked="" type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

The floats in the wet well failed to operate due to grease & debris.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

The pumps @ the lift station were operated manually to stop SSO from wet well. The floats were "freed" to operate pumps as intended. Using a sludge application truck, operators collected any sewage that had collected on the ground.

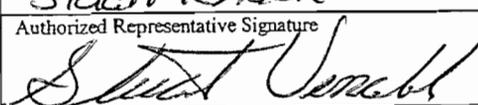
Scheduled maintenance of this wet well will increase as situations warrant.

The city of Alexandria is currently revising its grease ordinance to assist in preventing SSO's in the future caused by FOGs.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print)	Title
Stuart Venable	Water Quality Asst. Supt. / Waste Water
Authorized Representative Signature	Date
	7-06-2010

sewer complaint #107/10

taxed 7/08/10

Milton

Joe Gallant
107 Willow Ln



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa	MO-0028037	Date	Time
		7/07/10	3:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
Stuart Verable	Christian	Kevin Hess	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
7/07/10	3:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	7/07/10	3:15 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
15 minutes		50 gallons	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
107 Willow Ln Nixa, MO 65714			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input checked="" type="checkbox"/> Other (explain below) construction of sewer main	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Effluent Weir/Flume <input type="checkbox"/>			
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

The manhole located at 107 Willow Lane was purposely plugged to allow for coring of down stream manhole. The plugged manhole was unable to contain the flow before the coring was completed & plug removed.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)

Water: Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions in Connection with Occurrence and Prevention of Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

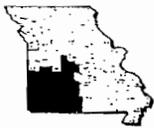
Lime was applied to affected area.
Construction crews will be required to coordinate with the Public Works department all necessary flow restrictions for construction. The city will have appropriate equipment on site to prevent overflows.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) Stuart Venable	Title Water Quality Asst. Supt. Wastewater
Authorized Representative Signature <i>Stuart Venable</i>	Date 7/08/10



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
<i>City of N. W. MO</i>	<i>MO-0028037</i>	Date	Time
		<i>7/18/2010</i>	<i>8:07</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
<i>Stuart Venable</i>	<i>Christian</i>	<i>Cindy Thompson Emergency Spill Response</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
<i>7/17/2010</i>	<i>11:00</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	<i>7/17/2010</i>	<i>11:50</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
<i>45 min - 1 hour</i>		<i>500 gallons</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
<i>Oakmont L. St. Station 1321 Woodcastle</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input checked="" type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input checked="" type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Effluent Weir/Flume
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

spill # 1007180809CMT
 one leg of the 3 phase electrical power supply burned off @ electrical meter. Power outage & equipment failure may be due to T-storm.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall			
Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	
Contributing Soil Conditions (saturated, frozen, soil type)			

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <i>Stuart Venable</i>	Title <i>Water Quality Asst. Supt. / Wastewater</i>
Authorized Representative Signature <i>Stuart Venable</i>	Date <i>7/19/2010</i>



Self Reporting Form For Wastewater Bypasses

Noted 9/2/10



- Notice:** Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
 - Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
<i>CITY OF NIXA</i>	<i>MO-0028037</i>	Date	Time
		<i>9/2/10</i>	<i>8:05</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
<i>MILTON DICKENSHEET</i>	<i>CHRISTIAN</i>	<i>SPRINGFIELD OFFICE, E.C. WEST</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
<i>9/1/10</i>	<i>5:00</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	<i>9/1/10</i>	<i>6:00</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
<i>APPROX. 1 HOUR</i>		<i>5000 GALLONS</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
<i>MANHOLE AT INTERSECTION OF PROSPECT + MISSOURI</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input checked="" type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

EXCESSIVE I/I IN THE SYSTEM FROM EXCESSIVE RAINFALL CAUSED MANHOLE TO SURCHARGE + OVERFLOW

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date <i>9/1/10</i>	Time (to nearest 15 minutes) <input checked="" type="checkbox"/> am <i>5:00</i> <input type="checkbox"/> pm	End Date <i>9/1/10</i>	Time (to nearest 15 minutes) <input type="checkbox"/> am <input checked="" type="checkbox"/> pm <i>8:00</i>
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) <i>8.5"</i>	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

CONTINUE CLEANING COLLECTION SYSTEM, TELEVISIONING + INSPECTING SYSTEM TO FIND DEFECTS IN SYSTEM, + MAKE IMPROVEMENTS TO ELIMINATE I/I PROBLEMS.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <i>MILTON DICKENSHEET</i>	Title <i>WATER QUALITY SUPERINTENDENT</i>
Authorized Representative Signature <i>Milton Dickensheet</i>	Date <i>9/2/10</i>

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

During the dates Sept. 1-Sept. 3, 2010 the Nixa Wastewater Treatment Plant received 13.9" of rain fall. The uv system experienced flooding due to storm water & effluent restriction from Finley River flooding.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
Sept. 2, 2010	<input checked="" type="checkbox"/> am <input type="checkbox"/> pm 6:00	Sept. 3, 2010	9:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm

Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
13.9"	

Contributing Soil Conditions (saturated, frozen, soil type) saturated

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: Wastewater treatment plant effluent outfall #001 Finley River

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

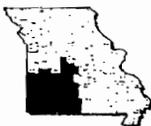
Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Sampling effluent for fecal = 9/3/10 @ 10:35 AM 2620/100 ml
9/6/10 @ 5:10 PM

continuing to sample & analyze effluent

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Authorized Representative Name (Print)	Title
Stuart Verabek	Asst. Supt. Water Quality / Wastewater
Authorized Representative Signature	Date
<i>Stuart Verabek</i>	Sept. 7, 2010



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa	MO-0028037	Date	Time
		Sept 7, 2010	10:42 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
Stuart Venable	Christian	Kevin Hess	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
Sept 6, 2010	4:30 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	Sept. 6, 2010	6:15 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
1 hour 45 minutes		2000	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
400 block of South Main St, nearest residence 427 South Main			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input checked="" type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

sewer main blocked with grease & debris.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)

Amount of Snow Melt (estimated inches melted)

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

 Runs on ground and absorbs into the soil.

Applied lime to effected area.

 Ditch. Name of surface water it drains to:

Finley River, SSO did not drain into the Finley River.

 Storm sewer. Name of surface water it drains to:

 Surface water direct discharge:

 Other, describe:
Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Continue cleaning collection system, televising & inspecting system to find defects in system, & make improvements to eliminate I/I problems.

Type of Samples Taken:

 BOD TSS Fecal Ammonia DO None Other:

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print)

Stuart Verable

Title

Asst. Water Quality Supt. / Wastewater

Authorized Representative Signature

Stuart Verable

Date

Sept. 7, 2010



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
<i>City of Nixa</i>	<i>MO-002837</i>	Date	Time
		<i>10/27/2010</i>	<i>10:45</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
<i>Stuart Venable</i>	<i>Christian</i>	<i>Chris Ray</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
<i>10/27/2010</i>	<i>8:48</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	<i>10/27/2010</i>	<i>09:20</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
<i>unknown</i>		<i>800 gallons</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
<i>801 S Tracker Road</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input checked="" type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input checked="" type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Effluent Weir/Flume
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Replaced low voltage control fuses.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print)	Title
Stuart Venable	Asst. Water Quality Sept./Wastewater
Authorized Representative Signature	Date
<i>Stuart Venable</i>	10/27/2010



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within **24 hours** of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within **5 days** of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name) <i>City of Nixa</i>	Permit Number <i>MO-0028037</i>	Overflow or Bypass Reported to MDNR	
		Date <i>3/01/2011</i>	Time <i>1:30</i> <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR <i>Stuart Venable</i>	County <i>christian</i>	MDNR Office and Person Contacted <i>Chuck Greeson</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date <i>est. 3/01/2011</i>	Time (to nearest 15 minutes) <i>est. 12:00</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	End Date <i>3/01/2011</i>	Time (to nearest 15 minutes) <i>10:55</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) <i>est. 10-12 hours</i>		Estimated Volume of Wastewater Discharged (gallons) <i>5,000 - 10,000</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location) <i>Northwest Region Lift Station 801 W Tracker Rd.</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input checked="" type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input checked="" type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Lift station pumps failed due to a bad float in wet well.

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

The float has been replaced in the wet well.
The overflow had been absorbed into the soil.
Staff from the city of Nixa has spread lime to effected areas.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) Stuart Venable	Title City of Nixa Asst. Supr. / Wastewater
Authorized Representative Signature <i>Stuart Venable</i>	Date



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa, MO	MO-0028037	Date	Time
Person Representing Permittee Who Contacted MDNR		County	MDNR Office and Person Contacted
Stuart Venable		Christian	Jake Waters
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
4/25/2011	3:30 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	4/25/2011	10:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
6 hrs 30 min		1000 gallons	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
875 S Old Riverdale Rd			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input checked="" type="checkbox"/> Rain <input type="checkbox"/> Power Outage <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Plugged Sewer <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Vandalism <input type="checkbox"/> Broken Sewer <input type="checkbox"/> Other (explain below)			
Type of Bypass:			
<input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Digester <input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Head Works <input type="checkbox"/> Drying Beds <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Effluent Weir/Flume			
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Wet weather

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date <i>4/21/2011</i>	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date <i>4/25/2011</i>	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) <i>9.85"</i>		Amount of Snow Melt (estimated inches melted)	

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: *Finley Creek*
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct this Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSQP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

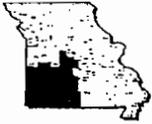
Continue cleaning, inspecting sewer collection system & eliminating I & I.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other

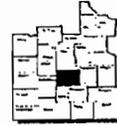
Attach copies of any test results.

Report Completed by

Authorized Representative Name (Print) <i>Stuart Verable</i>	Title <i>Asst. Sept. Water Quality / Wastewater</i>
Authorized Representative Signature <i>Stuart Verable</i>	Date <i>4/28/2011</i>



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa, MO	MO-0028037	Date 4/26/2011	Time 9:00 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR		MDNR Office and Person Contacted	
Stuart Venable		Lake Waters	
County		Christian	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date 4/25/2011	Time (to nearest 15 minutes) 6:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	End Date 4/25/2011	Time (to nearest 15 minutes) 8:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) 2 hrs		Estimated Volume of Wastewater Discharged (gallons) 33,000	
Location of the Overflow or Bypass (complete a separate form for each discharge location) 972 S Old Riverdale Rd			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input checked="" type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Wet Weather

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date 4/21/2011	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date 4/25/2011	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) 9.85	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)
saturated

Water Discharge from the Overflow or Bypass (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: Finley Creek
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

continue cleaning, inspecting sewer collection system & eliminating I&I

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) Stuart Veneble	Title Asst. Supt. Water Quality/Wastewater
Authorized Representative Signature <i>Stuart Veneble</i>	Date 4/28/2011



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa, MO	MO-0028037	Date 4/26/2011	Time 9:00 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR Stuart Venable	County Christian	MDNR Office and Person Contacted Lake Waters	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date 4/25/2011	Time (to nearest 15 minutes) 9:15 <input type="checkbox"/> am <input type="checkbox"/> pm	End Date 4/27/2011	Time (to nearest 15 minutes) 7:00 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) 57 hrs 45 minutes		Estimated Volume of Wastewater Discharged (gallons) 173,250 gallons	
Location of the Overflow or Bypass (complete a separate form for each discharge location) Corner of McConnel & Fort Ave			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input checked="" type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Effluent Weir/Flume <input type="checkbox"/>			
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Wet weather

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date 4/21/2011	Time (to nearest 15 minutes) <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	End Date 4/25/2011	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) 9.85"		Amount of Snow Melt (estimated inches melted)	

Contributing Soil Conditions (saturated, frozen, soil type)

saturated

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Continue cleaning, inspecting sewer collection system & eliminating I & I.

Applied lime to manhole area.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) Stuart Venable	Title Asst. Supt. Water Quality
Authorized Representative Signature <i>Stuart Venable</i>	Date 4/28/2011



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
(573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)		Permit Number	
City of Nixa, MO		MO-0028037	
		Overflow or Bypass Reported to MDNR	
		Date	Time
		4/26/2011	9:00 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR		County	MDNR Office and Person Contacted
Stuart Verable		Christian	Mike Waters
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
4/25/2011	9:15 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	4/26/2011	1:15 <input type="checkbox"/> am <input checked="" type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
28 hrs.		42,000	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
603 Fort Ave			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input checked="" type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Wet weather

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date <i>4/21/2011</i>	Time (to nearest 15 minutes) <input type="checkbox"/> am <input checked="" type="checkbox"/> pm	End Date <i>4/25/2011</i>	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
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Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) <i>9.85"</i>	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type)
Saturated

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

continue cleaning, inspecting sewer collection system eliminating I & I.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <i>Stuart Venable</i>	Title <i>Asst. Supt. Water Quality/Wastewater</i>
Authorized Representative Signature <i>Stuart Venable</i>	Date <i>4/28/2011</i>



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
City of Nixa, MO	MO-0028037	Date 28 th 4-28-2011	Time 10:58 <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
Stuart Verbeke	christian	Craig Reichert	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
4/25/2011	unknown <input type="checkbox"/> am <input type="checkbox"/> pm	4/25/2011	unknown <input type="checkbox"/> am <input type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes)		Estimated Volume of Wastewater Discharged (gallons)	
estimate 1 hr.		1000 est.	
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
108 Prospect			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input checked="" type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street. *wet weather*

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
4/21/2011		4/23/2011	

Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) <i>9.85"</i>	Amount of Snow Melt (estimated inches melted)
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Contributing Soil Conditions (saturated, frozen, soil type) *saturated*

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions and Corrective Measures to Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

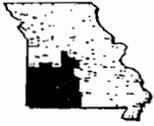
*continue cleaning, inspecting sewer collection system & eliminating I&I
applied lime to manhole areas.*

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____

Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) <i>Stuart Venable</i>	Title <i>Asst. Supt. Water Quality / Wastewater</i>
Authorized Representative Signature <i>Stuart Venable</i>	Date <i>4/28/2011</i>



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	Permit Number	Overflow or Bypass Reported to MDNR	
<i>City of Nixa, MO</i>	<i>MO-0028037</i>	Date <i>4/28/2011</i>	Time <i>10:58</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Person Representing Permittee Who Contacted MDNR	County	MDNR Office and Person Contacted	
<i>Stuart Verneble</i>	<i>Christian</i>	<i>Craig Reichert</i>	
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date <i>4/28/2011</i>	Time (to nearest 15 minutes) <i>8:00</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm	End Date <i>4/28/2011</i>	Time (to nearest 15 minutes) <i>9:15</i> <input checked="" type="checkbox"/> am <input type="checkbox"/> pm
Duration of the overflow or bypass (hours and minutes) <i>45 minutes</i>		Estimated Volume of Wastewater Discharged (gallons) <i>3375 gallons</i>	
Location of the Overflow or Bypass (complete a separate form for each discharge location) <i>603 Fort Ave</i>			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	
<input type="checkbox"/> Rain and/or Snow Melt	<input checked="" type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Other (explain below)	
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

blockage in sewer main

Wet Weather Data (if applicable)

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall

Start Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date	Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	

Contributing Soil Conditions (saturated, frozen, soil type)

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

- Runs on ground and absorbs into the soil.
- Ditch. Name of surface water it drains to: _____
- Storm sewer. Name of surface water it drains to: _____
- Surface water direct discharge: _____
- Other, describe: _____

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other: _____
Attach copies of any test results.

Report Completed By

Authorized Representative Name (Print) Stuart Verable	Title Asst. Supt. Water Quality / Wastewater
Authorized Representative Signature <i>Stuart Verable</i>	Date 4/28/2011

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume	Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism <input type="checkbox"/> Power Outage <input checked="" type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)
Location of the Overflow or Bypass (complete a separate form for each discharge location): For Scott Wayne	
Duration of the overflow or bypass (hours and minutes): 1 hour ± 30 minutes	Estimated Volume of Wastewater Discharged (gallons): 100 gallons
Start Date: May 22, 2011 Time (to nearest 15 minutes): 4:30 am <input checked="" type="checkbox"/> pm <input type="checkbox"/>	End Date: May 22, 2011 Time (to nearest 15 minutes): 6:00 am <input type="checkbox"/> pm <input checked="" type="checkbox"/>
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Permittee (Municipality or Facility Name): City of Nixa	Permit Number: MO-0028037
Person Representing Permittee Who Contacted MDNR: David Trautman	County: Christian
MDNR Office and Person Contacted: unknown	Date: May 23, 2011 Time: 4:00 am <input checked="" type="checkbox"/> pm <input type="checkbox"/>
Overflow or Bypass Reported to MDNR	

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

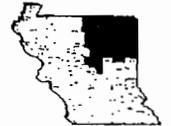
Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

- Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
 - Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
 - Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.



Self Reporting Form For Wastewater Bypasses



<p>Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.</p> <p style="text-align: center;">Blockage due to roots, grease, debris</p>	<p>Overflow or Bypass Details</p> <p>Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.</p> <p>Dates(s) and Duration of Rainfall</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Start Date</td> <td style="width: 25%;">Time (to nearest 15 minutes)</td> <td style="width: 25%;">End Date</td> <td style="width: 25%;">Time (to nearest 15 minutes)</td> </tr> <tr> <td></td> <td> <input type="checkbox"/> am <input type="checkbox"/> pm </td> <td></td> <td> <input type="checkbox"/> am <input type="checkbox"/> pm </td> </tr> </table> <p>Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)</p> <p>Amount of Snow Melt (estimated inches melted)</p> <p>Contributing Soil Conditions (saturated, frozen, soil type)</p>	Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)		<input type="checkbox"/> am <input type="checkbox"/> pm		<input type="checkbox"/> am <input type="checkbox"/> pm
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)						
	<input type="checkbox"/> am <input type="checkbox"/> pm		<input type="checkbox"/> am <input type="checkbox"/> pm						
<p>Where did the discharge from the overflow or bypass go? (check all that apply)</p> <p>Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p> <p><input checked="" type="checkbox"/> Runs on ground and absorbs into the soil</p> <p><input type="checkbox"/> Ditch. Name of surface water it drains to: _____</p> <p><input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____</p> <p><input type="checkbox"/> Surface water direct discharge: _____</p> <p><input type="checkbox"/> Other, describe: _____</p>									
<p>Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.</p> <p style="text-align: center;">Collection crew removed roots & debris from manhole.</p> <p style="text-align: center;">Applied lime to effect area.</p> <p style="text-align: center;">Continue with sewer maintenance & I-I reduction program.</p>									
<p>Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input checked="" type="checkbox"/> None <input type="checkbox"/> Other: _____</p> <p>Attach copies of any test results.</p> <p style="text-align: right;">Report Completed</p>									
<p>Authorized Representative Name (Print)</p> <p style="text-align: center;">Shurt Venable</p>	<p>Authorized Representative Signature</p> <p style="text-align: center;"><i>Shurt Venable</i></p>								
<p>Title</p> <p style="text-align: center;">Asst Supt Water Quality/Wastewater</p>	<p>Date</p> <p style="text-align: center;">May 26 2011</p>								



Self Reporting Form For Wastewater Bypasses



M.H.S. 607

Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone: (573) 634-2436 - 24 Hour Spill Line or (417) 891-4300 - Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

NOTIFICATION		OVERFLOW OR BYPASS DETAILS	
Permittee (Municipality or Facility Name)	City of Nixa	Person Representing Permittee Who Contacted MDNR	Stuart Venable
Permit Number	MO-0028037	County	Christian
Overflow or Bypass Reported to MDNR	Date	MDNR Office and Person Contacted	Mark Rader
	June 2, 2011		
	Time		
	11:53		
	<input checked="" type="checkbox"/> am <input type="checkbox"/> pm		
Dates and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	6/01/2011	End Date	7-4-5
Time (to nearest 15 minutes)	7:30	Time (to nearest 15 minutes)	
	<input type="checkbox"/> am <input checked="" type="checkbox"/> pm		
Duration of the overflow or bypass (hours and minutes)	30 minutes	Estimated Volume of Wastewater Discharged (gallons)	500
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
940 W Northview Rd Nixa MO 65714, "WISSON TARP Station"			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	<input type="checkbox"/> Other (explain below)
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	<input type="checkbox"/> Manhole
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Digester	<input type="checkbox"/> Clarifier/Filter/Batch Reactor
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Equipment Failure	<input type="checkbox"/> Other (explain below)
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Widespread Flooding	<input type="checkbox"/> Manhole
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Equipment Failure	<input type="checkbox"/> Other (explain below)
Type of Bypass:	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input type="checkbox"/> Manhole
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
<input type="checkbox"/> Drying Beds	<input checked="" type="checkbox"/> Raw	<input type="checkbox"/> Effluent Weir/Flume	<input type="checkbox"/> Partially Treated
Strength of Bypass:	<input checked="" type="checkbox"/> Raw	<input type="checkbox"/> Partially Treated	

Authorized Representative Signature: *[Signature]*
 Title: *Staff Vendor*
 Date: *WATER QUALITY / HST STP / WASTEWATER*

Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOF permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Met with staff & emphasized the importance of rechecking pump settings after pump station pumps are checked & maintenance performed.

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

Runs on ground and absorbs into the soil.
 Ditch. Name of surface water it drains to:
 Storm sewer. Name of surface water it drains to:
 Surface water direct discharge:
 Other, describe:

Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy) _____

Amount of Snow Melt (estimated inches melted) _____

Contributing Soil Conditions (saturated, frozen, soil type) _____

Start Date: _____ Time (to nearest 15 minutes) _____

End Date: _____ Time (to nearest 15 minutes) _____

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Date(s) and Duration of Rainfall: _____

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Human error. Both pumps were in the "OFF" mode on the control panel.



Self Reporting Form For Wastewater Bypasses



Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 - 24 Hour Spill Line or (417) 891-4300 - Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

NOTIFICATION INFORMATION			
Permittee (Municipality or Facility Name) City of Moxa	Permit Number MO-0028637		
Person Representing Permittee Who Contacted MDNR Stuart Remble	County Christian		
Date 7/19/11	MDNR Office and Person Contacted John Blodgett		
Overflow or Bypass Reported to MDNR			
Start Date 7/18/2011	End Date 7/18/2011	Time (to nearest 15 minutes) 7:00 am <input type="checkbox"/> 7:30 am <input type="checkbox"/>	Time (to nearest 15 minutes) 7:30 am <input type="checkbox"/> 8:00 am <input checked="" type="checkbox"/>
Duration of the overflow or bypass (hours and minutes) 30 minutes		Estimated Volume of Wastewater Discharged (gallons) 500-1000 gallons	
Location of the Overflow or Bypass (complete a separate form for each discharge location) 801 W Tracker Rd			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism	<input type="checkbox"/> Power Outage <input type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer	<input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input checked="" type="checkbox"/> Other (explain below)	Type of Bypass: <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input checked="" type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Manhole <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Fume
Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated			

Grass built up in wet well in lift station

Authorized Representative Name (Print) **Stuart Venable**
 Authorized Representative Signature *Stuart Venable*
 Title **Asst. Water Quality Supt. / Waste Water**
 Date **2/11/11**

Report Completed By _____
 Attach copies of any test results. _____
 Type of Samples Taken: BOD TSS Fecal Ammonia DO None Other _____

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

Check test results that flow to 1. station. Schedule pump station for cleaning wet well.

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

Runs on ground and absorbs into the soil.
 Ditch. Name of surface water it drains to: _____
 Storm sewer. Name of surface water it drains to: _____
 Surface water direct discharge: _____
 Other, describe: _____

When an area is large from the overflow or bypass, give the area (in square feet) _____

Contributing Soil Conditions (saturated, frozen, soil type) _____

Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
Start Date Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm

Date(s) and Duration of Rainfall _____

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Overflow or Bypass Details

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

Flood in wet well failed due to grease build up.

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
<input type="checkbox"/> Drying Beds <input checked="" type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Digester <input type="checkbox"/> Manhole
<input type="checkbox"/> Effluent Weir/Flume <input type="checkbox"/> Head Works	<input type="checkbox"/> Broken Sewer <input type="checkbox"/> Plugged Sewer <input type="checkbox"/> Power Outage
<input type="checkbox"/> Vandalism <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Rain	<input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input checked="" type="checkbox"/> Other (explain below)
Circumstances Causing the Overflow or Bypass (check all that apply) Broken for the main	
Location of the Overflow or Bypass (complete a separate form for each discharge location) 940 Timber Springs Rd. Mike MO 65214	
Duration of the overflow or bypass (hours and minutes) 2 hours	Estimated Volume of Wastewater Discharged (gallons) 500 gallons
Start Date 8/14/2011 Time (to nearest 15 minutes) <input type="checkbox"/> am <input checked="" type="checkbox"/> pm 4:45	End Date 8/14/2011 Time (to nearest 15 minutes) <input type="checkbox"/> am <input checked="" type="checkbox"/> pm 6:30
Dates) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Permittee (Municipality or Facility Name) City of Mike	
Permit Number	Date 8/15/2011 Time <input checked="" type="checkbox"/> am <input type="checkbox"/> pm 9:07
Person Representing Permittee Who Contacted MDNR Stuart Verble	MDNR Office and Person Contacted Christian Johnathon Blodgett
Overflow or Bypass Reported to MDNR	

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

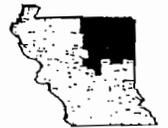
Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

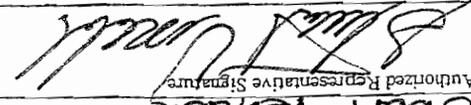
Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 - 24 Hour Spill Line or (417) 891-4300 - Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Self Reporting Form For Wastewater Bypasses



<p>Authorized Representative Name (Print) Stuart Venable</p> <p>Authorized Representative Signature </p> <p>Date 8/15/2011</p>	<p>Title Asst. Supt. Water Quality / Wastewater</p>
<p>Report Completed By</p>	
<p>Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input checked="" type="checkbox"/> None <input type="checkbox"/> Other</p>	
<p>Attach copies of any test results:</p>	
<p>Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.</p> <p> <input checked="" type="checkbox"/> Runs on ground and absorbs into the soil. <input checked="" type="checkbox"/> Ditch. Name of surface water it drains to: <u>Finley Creek, absorbed into soil.</u> <input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____ <input type="checkbox"/> Surface water direct discharge: _____ <input type="checkbox"/> Other, describe: _____ </p> <p> Shut off pumps @ pump station. Drained force main. Pumped out & transported wet well contents to Northwest Regional Pump Station. Repaired force main. Applied lime to affected area. </p>	
<p>Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p>	
<p>Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p>	
<p>Contributing Soil Conditions (saturated, frozen, soil type)</p>	
<p>Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)</p>	<p>Amount of Snow Melt (estimated inches melted)</p>
<p>Start Date Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>	<p>End Date Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>
<p>Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.</p>	
<p>Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.</p> <p> Timber Creek Pump Station force main. Timber Creek Pump Station Address: 438 Timber Springs Rd., Alexe, MO Force main break address: 440 Timber Springs Rd., Alexe, MO. The force main damaged section had been set on a large rock & cracked. </p>	

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume	<input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Digester
Circumstances Causing the Overflow or Bypass (check all that apply)	
<input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism	<input type="checkbox"/> Power Outage <input checked="" type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer
<input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location)	
Duration of the overflow or bypass (hours and minutes)	Estimated Volume of Wastewater Discharged (gallons)
Start Date (Time to nearest 15 minutes)	End Date (Time to nearest 15 minutes)
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Permit Number: MO-0028037	Permittee (Municipality or Facility Name): City of Moxa
Person Representing Permittee Who Contacted MDNR: Stuart Venable	MDNR Office and Person Contacted: Greg Perkins
Date: 10/07/11	Time: 1:00 pm

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

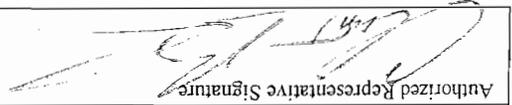
Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

- Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 - 24 Hour Spill Line or (417) 891-4300 - Southwest Regional Office
 - Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Self Reporting Form For Wastewater Bypasses



Authorized Representative Signature


Authorized Representative Name (Print)
 Clint DeHaven

Date
 10-2-2011

Title
 Asst. Mgr.

Report Completed By
 [Signature]

Type of Samples Taken:
 BOD TSS Fecal Ammonia DO None Other: _____
 Attach copies of any test results.

Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.

150% flow capacity. Remove from the sewer system. The sewer system is not designed to handle this volume of flow. The sewer system is not designed to handle this volume of flow. The sewer system is not designed to handle this volume of flow.

Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses

- Other, describe: 556 cleaned up. No discharge to Finley Creek by way of ditch/storm water.
- Surface water direct discharge
- Storm sewer. Name of surface water it drains to: _____
- Ditch. Name of surface water it drains to: _____
- Runs on ground and absorbs into the soil.

Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.

Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)

Contributing Soil Conditions (saturated, frozen, soil type)

Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)

Amount of Snow Melt (estimated inches melted)

Start Date Time (to nearest 15 minutes) _____ am _____ pm

End Date Time (to nearest 15 minutes) _____ am _____ pm

Date(s) and Duration of Rainfall

Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.

Wet Weather Data (if applicable)

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.

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Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume <input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Digester	
Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input checked="" type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input type="checkbox"/> Vandalism <input type="checkbox"/> Power Outage <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location): Waterford way & North St. North side of road Next to detention basin for Stormwater	
Start Date: 11-17-2011 Time (to nearest 15 minutes): 3:45 pm	End Date: 11-17-2011 Time (to nearest 15 minutes): 4:30 pm
Duration of the overflow or bypass (hours and minutes): 0 hr 45 min Estimated Volume of Wastewater Discharged (gallons): 500 gal	
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Permit Number: MO-0028037 Permittee (Municipality or Facility Name): City of Nixa	Person Representing Permittee Who Contacted MDNR: Clint Benham County: Christian
Date: 11-18-2011 Time: 2:37 pm	MDNR Office and Person Contacted: Eke Waters
Overflow or Bypass Reported to MDNR	

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

- Notice:** Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
 - (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Self Reporting Form For Wastewater Bypasses



<p>Overflow or Bypass Details Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.</p>	
<p>Wet Weather Data (if applicable) Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.</p>	
<p>Date(s) and Duration of Rainfall</p>	
<p>Start Date</p> <p>Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>	<p>End Date</p> <p>Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>
<p>Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)</p>	<p>Amount of Snow Melt (estimated inches melted)</p>
<p>Contributing Soil Conditions (saturated, frozen, soil type)</p>	
<p>Where Did the Discharge from the Overflow or Bypass Go? (check all that apply) Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p>	
<p><input checked="" type="checkbox"/> Runs on ground and absorbs into the soil.</p> <p><input checked="" type="checkbox"/> Ditch. Name of surface water it drains to: <u>Storm water basin</u></p> <p><input checked="" type="checkbox"/> Storm sewer. Name of surface water it drains to: <u>Storm water basin</u></p> <p><input type="checkbox"/> Surface water direct discharge:</p> <p><input type="checkbox"/> Other, describe:</p>	
<p>Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.</p>	
<p>* Periodically inspect MHS in area for grease, rags and debris. * Set man when debris is present * Set man to remove blockage and lined area of overflow on 11-17 and 11-18.</p>	
<p>Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input checked="" type="checkbox"/> None <input type="checkbox"/> Other:</p>	
<p>Report Completed By</p>	
<p>Authorized Representative Name (Print) <u>Clint Benham</u></p>	<p>Authorized Representative Signature </p>
<p>Title <u>Lead Utility Worker / Collection System</u></p>	<p>Date <u>11-18-2011</u></p>

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume <input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Digester	
Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism <input type="checkbox"/> Power Outage <input checked="" type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location): 941 E. Mt. Vernon St. / Mt. West of North East Regional Lift Station, 261 Shongrak Ct.	
Duration of the overflow or bypass (hours and minutes): 0hrs 30 mins	Estimated Volume of Wastewater Discharged (gallons): 500 Est.
Start Date: 11-24-2011 Time (to nearest 15 minutes): <input checked="" type="checkbox"/> 11:00 am <input type="checkbox"/> pm	End Date: 11-24-2011 Time (to nearest 15 minutes): <input checked="" type="checkbox"/> 11:30 am <input type="checkbox"/> pm
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Person Representing Permittee Who Contacted MDNR: City of Mexico County: Christian	MDNR Office and Person Contacted: Denver
Permit Number: MO-0028037	Date: 11-29-2011 Time: <input checked="" type="checkbox"/> 9:40 am <input type="checkbox"/> pm
Permittee (Municipality or Facility Name): City of Mexico	
Overflow or Bypass Reported to MDNR	

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

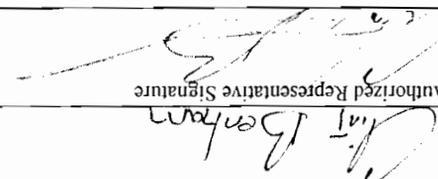
Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

- Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources (MDNR) by telephone.
 - Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
- Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs: Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating

Self Reporting Form For Wastewater Bypasses



<p>Overflow or Bypass Details</p> <p>Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels. not just localized high water in the street. <u>To our knowledge the overflow was caused due to debris blocking the outlet pipe of the M.H. This overflow was found by a citizen 11-29. He tried to call it in to our callout service but we could not get through. He called public works 11-28 @ 12:00 and report it to us.</u></p>	
<p>Wet Weather Data (if applicable)</p> <p>Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.</p>	
<p>Date(s) and Duration of Rainfall</p>	
<p>Start Date</p> <p>Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>	<p>End Date</p> <p>Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>
<p>Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)</p>	<p>Amount of Snow Melt (estimated inches melted)</p>
<p>Contributing Soil Conditions (saturated, frozen, soil type)</p>	
<p>Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)</p> <p>Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p> <p><input checked="" type="checkbox"/> Runs on ground and absorbs into the soil.</p> <p><input type="checkbox"/> Ditch. Name of surface water it drains to: _____</p> <p><input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____</p> <p><input type="checkbox"/> Surface water direct discharge: _____</p> <p><input type="checkbox"/> Other, describe: _____</p>	
<p>Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses</p> <p>Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.</p> <p><u>Checked MH that overflowed, checked lift station for signs of backup or failure. Both MH and lift station checked out OK.</u></p> <p><u>It's a possibility that rgs, sticks or other debris had the line plugged for a short period of time until it corrected itself.</u></p> <p><u>went out and cleaned up rgs and spread lime.</u></p>	
<p>Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input type="checkbox"/> None <input type="checkbox"/> Other: _____</p> <p>Attach copies of any test results: _____</p>	
<p>Report Completed By</p> <p>Authorized Representative Name (Print) <u>Jim Bohm</u></p> <p>Authorized Representative Signature </p> <p>Title <u>Lead Collection System</u></p> <p>Date <u>11-29-2011</u></p>	

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume <input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Digester	
Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism <input type="checkbox"/> Power Outage <input type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input checked="" type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location): 261 Shryver Ln	
Duration of the overflow or bypass (hours and minutes): 1 hr 30 min	Estimated Volume of Wastewater Discharged (gallons): 800 gal
Start Date: 12-17-2011 Time (to nearest 15 minutes): 3:15 pm	End Date: 12-17-2011 Time (to nearest 15 minutes): 4:45 pm
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Permit Number: MO-0028037	Permittee (Municipality or Facility Name): City of Nixa
Person Representing Permittee Who Contacted MDNR: Clint Benham	MDNR Office and Person Contacted: Website
County: Christian	Date: 12-17-2011 Time: 10:20 am
Overflow or Bypass Reported to MDNR	

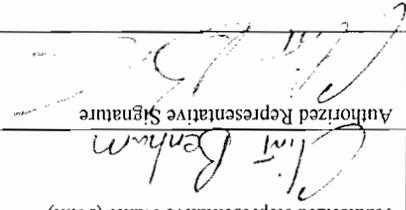
Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

- Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.
- Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office (417) 891-4300 - Southwest Regional Office
 - Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 - 24 Hour Spill Line or
- Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs: Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating

Self Reporting Form For Wastewater Bypasses



<p>Authorized Representative Name (Print) Jim Benham</p> <p>Authorized Representative Signature </p> <p>Title Lead Utility Collection System</p> <p>Date 12-17-2011</p>		
<p>Report Completed By</p>		
<p>Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input type="checkbox"/> None <input type="checkbox"/> Other: _____</p> <p>Attach copies of any test results.</p>		
<p>Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses</p> <p>Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.</p> <p style="text-align: right;">Lime to affected area. Used Vector truck to clean up sewage and rags around MH then applied.</p>		
<p>Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)</p> <p>Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p> <p> <input checked="" type="checkbox"/> Runs on ground and absorbs into the soil. <input type="checkbox"/> Ditch. Name of surface water it drains to: _____ <input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____ <input checked="" type="checkbox"/> Surface water direct discharge: <u>MH's located next to creek with ground water runoff</u> <input type="checkbox"/> Other, describe: _____ </p>		
<p>Wet Weather Data (if applicable)</p> <p>Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.</p>		
<p>Start Date</p> <p>Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>	<p>End Date</p> <p>Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm</p>	<p>Date(s) and Duration of Rainfall</p>
<p>Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)</p>		<p>Amount of Snow Melt (estimated inches melted)</p>
<p>Contributing Soil Conditions (saturated, frozen, soil type)</p>		
<p>Overflow or Bypass Details</p> <p>Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels. not just localized high water in the street.</p> <p>SSO was caused by equipment failure. Floats in the L.H. station failed due to rags building up and causing the floats to not work properly. Sewage did make it to a creek with ground water runoff.</p>		

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input checked="" type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Digester <input type="checkbox"/> Manhole <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume	
Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism <input type="checkbox"/> Power Outage <input type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input checked="" type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location): 720 Milton + Northview - Wesson LS	
Duration of the overflow or bypass (hours and minutes): 1 hr 12 min	Estimated Volume of Wastewater Discharged (gallons): 520 gal
Start Date: 1-14-2012 4:48 am <input checked="" type="checkbox"/> pm	End Date: 1-14-2012 6:00 am <input type="checkbox"/> pm
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Permit Number: MO 0028037	Person Representing Permittee Who Contacted MDNR: City of Wesson
Date: 1-15-2012	MDNR Office and Person Contacted: DNR website
Permittee (Municipality or Facility Name): City of Wesson	MDNR Office and Person Contacted: DNR website

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

- Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.
- **Notice:** Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
 - Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone.
 - (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
 - Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Self Reporting Form For Wastewater Bypasses



Overflow or Bypass Details Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels. not just localized high water in the street. The overflow occurred because of faulty equipment. a float malfunction did not let the pumps turn on properly properly.	
Wet Weather Data (if applicable) Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass. Date(s) and Duration of Rainfall: _____	
Start Date Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm	End Date Time (to nearest 15 minutes) <input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
Contributing Soil Conditions (saturated, frozen, soil type) _____	
Where Did the Discharge from the Overflow or Bypass Go? (check all that apply) Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.	
<input checked="" type="checkbox"/> Runs on ground and absorbs into the soil. <input type="checkbox"/> Ditch. Name of surface water it drains to: _____ <input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____ <input type="checkbox"/> Surface water direct discharge: _____ <input type="checkbox"/> Other, describe: _____	
Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action. Diagnosed the problem and found the fault float. Replaced float and lined area spill area.	
Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input type="checkbox"/> None <input type="checkbox"/> Other: _____ Attach copies of any test results.	
Report Completed By Authorized Representative Name (Print) <u>Clint Benham</u> Authorized Representative Signature <u>[Signature]</u> Title <u>Lead Collection System</u> Date <u>1-15-2012</u>	

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Drying Beds <input type="checkbox"/> Lift Station <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Digester <input checked="" type="checkbox"/> Manhole <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Flume	
Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input type="checkbox"/> Vandalism <input type="checkbox"/> Power Outage <input checked="" type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location): 1004 Glacier CT	
Duration of the overflow or bypass (hours and minutes): 0 hrs 20 min	Estimated Volume of Wastewater Discharged (gallons): 25-50 gal
Start Date: 1-20-2012 Time (to nearest 15 minutes): 3:00 pm	End Date: 1-20-2012 Time (to nearest 15 minutes): 3:20 pm
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Person Representing Permittee Who Connected MDNR: LT Beckem	MDNR Office and Person Contacted: Website
Permit Number: MD 0028057	Date: 1-20-2012 Time: 10:00 am
Permittee (Municipality or Facility Name): City of Nixa	County: Christian

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

- Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone. (573) 634-2436 - 24 Hour Spill Line or (417) 891-4300 - Southwest Regional Office
 - Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Self Reporting Form For Wastewater Bypasses



<p>Overflow or Bypass Details</p> <p>Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street. <i>Overflow was caused from grease build up</i></p>	
<p>Was Weather Data (if applicable)</p> <p>Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.</p>	
<p>Start Date</p> <p>Time (to nearest 15 minutes)</p> <p>am <input type="checkbox"/> pm <input type="checkbox"/></p>	<p>End Date</p> <p>Time (to nearest 15 minutes)</p> <p>am <input type="checkbox"/> pm <input type="checkbox"/></p>
<p>Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)</p> <p>Amount of Snow Melt (estimated inches melted)</p>	
<p>Contributing Soil Conditions (saturated, frozen, soil type)</p>	
<p>Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)</p> <p>Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.</p> <p><input checked="" type="checkbox"/> Runs on ground and absorbs into the soil.</p> <p><input type="checkbox"/> Ditch. Name of surface water it drains to: _____</p> <p><input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____</p> <p><input type="checkbox"/> Surface water direct discharge: _____</p> <p><input type="checkbox"/> Other, describe: _____</p>	
<p>Account to Collect the Occurrence and Prevent Future Overflows or Bypasses</p> <p>Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows, and bypasses, they will be subject to enforcement action.</p> <p><i>Settled from downstream and removed blockage.</i></p> <p><i>We are planning to send out brochures on grease the grease to inform the public about these problems and expenses that happen from dumping grease down the drain.</i></p>	
<p>Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input checked="" type="checkbox"/> None <input type="checkbox"/> Other: _____</p> <p>Attach copies of any test results.</p>	
<p>Report Completed By</p>	
<p>Authorized Representative Name (Print)</p> <p><i>M. T. Bealman</i></p>	<p>Authorized Representative Signature</p> <p><i>[Signature]</i></p>
<p>Title</p> <p><i>Local Collection System</i></p>	<p>Date</p> <p><i>1-20-2012</i></p>

Strength of Bypass: <input checked="" type="checkbox"/> Raw <input type="checkbox"/> Partially Treated	
Type of Bypass: <input type="checkbox"/> Pipe Break <input type="checkbox"/> Lagoon/Basin Overflow <input type="checkbox"/> Digester <input type="checkbox"/> Manhole <input type="checkbox"/> Head Works <input type="checkbox"/> Effluent Weir/Fume	<input type="checkbox"/> Drying Beds <input type="checkbox"/> Lift Station <input type="checkbox"/> Clarifier/Filter/Batch Reactor
Circumstances Causing the Overflow or Bypass (check all that apply): <input type="checkbox"/> Rain <input type="checkbox"/> Rain and/or Snow Melt <input checked="" type="checkbox"/> Plugged Sewer <input type="checkbox"/> Broken Sewer <input type="checkbox"/> Power Outage <input type="checkbox"/> Equipment Failure <input type="checkbox"/> Widespread Flooding <input type="checkbox"/> Other (explain below)	
Location of the Overflow or Bypass (complete a separate form for each discharge location)	
Start Date: 2-17 Time (to nearest 15 minutes): 11:55 am <input checked="" type="checkbox"/> pm <input type="checkbox"/>	End Date: 2-17 Time (to nearest 15 minutes): 12:15 am <input type="checkbox"/> pm <input checked="" type="checkbox"/>
Duration of the overflow or bypass (hours and minutes): 6 hrs 20 min	
Estimated Volume of Wastewater Discharged (gallons): 10 gal	
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)	
Overflow or Bypass Details	
Permit Number: MO 0025637	Permittee (Municipality or Facility Name): City of...
Person Representing Permittee Who Contacted MDNR: Mr. Strom	County:
Date: 2-17 2012	MDNR Office and Person Contacted:
Time: 4:19 am <input type="checkbox"/> pm <input checked="" type="checkbox"/>	MDNR Office and Person Contacted:
Overflow or Bypass Reported to MDNR	

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

- Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:
- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) (417) 891-4300 - Southwest Regional Office (573) 634-2436 - 24 Hour Spill Line or (417) 891-4300 - Southwest Regional Office by telephone.
 - Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Self Reporting Form For Wastewater Bypasses



Overflow or Bypass Details Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels.	
Verify was caused by roots in sewer main	
Wet Weather Data (if applicable) Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.	
Date(s) and Duration of Rainfall	
Start Date Time (to nearest 15 minutes)	End Date Time (to nearest 15 minutes)
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)	Amount of Snow Melt (estimated inches melted)
Contributing Soil Conditions (saturated, frozen, soil type)	
Where Did the Discharge from the Overflow or Bypass Go? (check all that apply) Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.	
<input checked="" type="checkbox"/> Runs on ground and absorbs into the soil. <input type="checkbox"/> Ditch. Name of surface water it drains to: _____ <input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____ <input type="checkbox"/> Surface water direct discharge: _____ <input type="checkbox"/> Other, describe: _____	
Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.	
Root cut line. Line was put on list for ZIP project	
Type of Samples Taken: <input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input type="checkbox"/> None <input type="checkbox"/> Other: _____	
Attach copies of any test results.	
Report Completed By	
Authorized Representative Name (Print)	Authorized Representative Signature
Title	Date

Self Reporting Form For Wastewater Bypasses



Expanding party - 810-268-8761

Notice: Under RSMO 10 CSR 20-7.015(9)(E) and in accordance with reporting requirements in your Missouri State Operating Permit (MSOP), all permittees shall provide the following notices if an unscheduled sanitary sewer overflow or bypass occurs:

- Within 24 hours of the occurrence, notify the Missouri Department of Natural Resources (MDNR) by telephone: (573) 634-2436 – 24 Hour Spill Line or (417) 891-4300 – Southwest Regional Office
- Within 5 days of the occurrence, provide a written report describing the overflow or bypass, including all information requested on this form. The permittee is required to submit this form or other equivalent written notification to the Missouri Department of Natural Resources, Southwest Regional Office, 2040 W. Woodland, Springfield, MO 65807.

Failure to notify the department as specified may result in civil or criminal penalties for noncompliance.

Instructions: Use this form to report all unscheduled sanitary sewer overflow or bypass occurrences. Attach additional information as necessary to explain or document the overflow or bypass. For the purpose of this report, an overflow or bypass is defined as the diversion of wastewater from any portion of a wastewater treatment facility or sewer system to waters of the state or where the contaminants might reasonably reach waters of the state.

Use one form per occurrence. A single occurrence may be more than one day if the circumstance causing the overflow or bypass results in a discharge duration more than 24 hours. If there is a stop and restart of the overflow or bypass within 24-hours, but it is caused by the same circumstance, report it as one occurrence. If the discharges are separated by more than 24 hours, they should be reported as separate occurrences.

Notification Information			
Permittee (Municipality or Facility Name)	City of Nixa	Permit Number	MO-0028037
Person Representing Permittee Who Contacted MDNR	Tim Behm	MDNR Office and Person Contacted	Website
Date	3-15-2012	Time	3:00 pm
Overflow or Bypass Details			
Date(s) and Duration of Overflow or Bypass Occurrence (complete a separate form for each occurrence)			
Start Date	3-14	Time (to nearest 15 minutes)	1:50 pm
End Date	3-14	Time (to nearest 15 minutes)	1:05 pm
Duration of the overflow or bypass (hours and minutes)	15 min.		
Estimated Volume of Wastewater Discharged (gallons)			
Location of the Overflow or Bypass (complete a separate form for each discharge location)			
261 Strong, La			
Circumstances Causing the Overflow or Bypass (check all that apply)			
<input type="checkbox"/> Rain	<input type="checkbox"/> Power Outage	<input type="checkbox"/> Plugged Sewer	<input type="checkbox"/> Broken Sewer
<input type="checkbox"/> Rain and/or Snow Melt	<input type="checkbox"/> Equipment Failure	<input type="checkbox"/> Widespread Flooding	<input type="checkbox"/> Other (explain below)
Type of Bypass:			
<input type="checkbox"/> Pipe Break	<input type="checkbox"/> Lagoon/Basin Overflow	<input type="checkbox"/> Digester	<input checked="" type="checkbox"/> Manhole
<input type="checkbox"/> Drying Beds	<input type="checkbox"/> Lift Station	<input type="checkbox"/> Clarifier/Filter/Batch Reactor	<input type="checkbox"/> Head Works
Strength of Bypass:		<input checked="" type="checkbox"/> Raw	
		<input type="checkbox"/> Partially Treated	

Provide a narrative description to further explain why the overflow or bypass occurred. For example, describe what equipment failed, what caused the power outage, or what plugged the sewer. Flooding should only be indicated as a cause if there is significant flooding that is caused by high river, stream, or lake water levels, not just localized high water in the street.		SSO caused by a bad relay	
Overflow or Bypass Details			
Document the weather conditions if it contributed to the cause of the overflow or bypass. An overflow or bypass may be caused by a series of short rain storms or in combination with a snow melt. The wet weather data should include the cumulative amount of precipitation that caused the overflow or bypass.			
Wet Weather Data (if applicable)			
Date(s) and Duration of Rainfall			
Start Date	Time (to nearest 15 minutes)	End Date	Time (to nearest 15 minutes)
<input type="checkbox"/> am <input type="checkbox"/> pm	<input type="checkbox"/> am <input type="checkbox"/> pm	<input type="checkbox"/> am <input type="checkbox"/> pm	<input type="checkbox"/> am <input type="checkbox"/> pm
Amount of Rainfall (nearest rain gauge to 0.1 inch accuracy)		Amount of Snow Melt (estimated inches melted)	
Contributing Soil Conditions (saturated, frozen, soil type)			
Where Did the Discharge from the Overflow or Bypass Go? (check all that apply)			
Provide the name of the local receiving water that the wastewater enters, which could be a nearby stream, river, lake, or wetland. If discharge does not enter directly into a surface water, but indirectly by way of a ditch or storm sewer, trace the path of the ditch or storm sewer to find the receiving water.			
<input checked="" type="checkbox"/> Runs on ground and absorbs into the soil.			
<input type="checkbox"/> Ditch. Name of surface water it drains to: _____			
<input type="checkbox"/> Storm sewer. Name of surface water it drains to: _____			
<input type="checkbox"/> Surface water direct discharge: _____			
<input type="checkbox"/> Other, describe: _____			
Actions to Correct This Occurrence and Prevent Future Overflows or Bypasses			
Describe what actions were taken to minimize the volume of wastewater discharged from the overflow or bypass reported on this form. Also describe what actions are planned to prevent or minimize future overflows or bypasses. The MSOP permit prohibits bypasses, unless certain specified conditions are met. If the permittee fails to operate and maintain the sewage collection system to prevent overflows and bypasses, they will be subject to enforcement action.			
(replied relay and everything else checked out ok)			
Type of Samples Taken:			
<input type="checkbox"/> BOD <input type="checkbox"/> TSS <input type="checkbox"/> Fecal <input type="checkbox"/> Ammonia <input type="checkbox"/> DO <input type="checkbox"/> None <input type="checkbox"/> Other: _____			
Attach copies of any test results.			
Report Completed By			
Authorized Representative Name (Print)		Authorized Representative Signature	
Clint Benham			
Title		Date	
Lead Collection System		3-15-2012	



- Account Settings
- More Information
- Logout

Event Search

Facility Name: Nixa WWTF
 Permit No: MO0028037

Record successfully added.

* Indicates a Required Field

** Indicates a Required Field for Final Report

Once you enter the Event End Date & Time fields and Add Event/Save Changes, you will no longer be able to edit this record!

Event Details

Bypass = at the wastewater treatment plant; Overflow = in the collection system

Confirmation No: 1190

Type of Event:

Wet or Dry Event?

Event Begin Date: (MM/DD/YYYY)

Event Begin Time: (HH:MM) Military Time

Event End Date: (MM/DD/YYYY)

Event End Time: (HH:MM) Military Time

Event Duration (hh:mm) 2d:5h:0m:

Initial Report Date: (MM/DD/YYYY)

Initial Report Time: (HH:MM) Military Time

Discharged To:

Reported By:

Immediate Contact ()

Ongoing?:

Estimated Volume at time of Initial Report (gallons):

Is bypass/overflow reaching Waters of the State?

Effected Waterbody:

Cause of Event:

Cause of Event Comments:

Event Type:

* To select more than one choice hold down the control key on the keyboard

Additional Impact:

Location Information

County Christian

UTM Easting: 475360.982

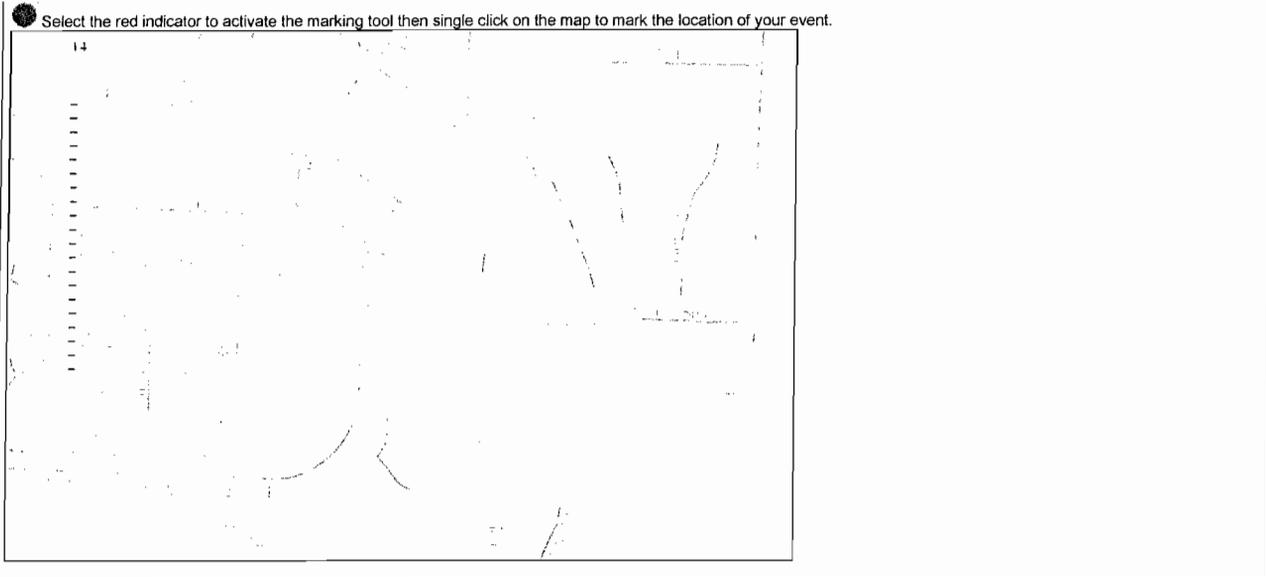
UTM Northing: 4098993.260

Location Description

Double click on the map to zoom in. The mouse wheel or the slider may be used to zoom in or out. Use the pan buttons or hold down the left mouse button and drag the map to pan to another location. Select a county from the drop down to zoom to that county.

County:

Select the red indicator to activate the marking tool then single click on the map to mark the location of your event.



5 - Day Report

** Estimated Final Total Volume (gallons):
Did bypass reach Waters of the State?
** Response:

[Add Additional Event](#)



Missouri
Department of
Natural Resources

1-800-361-4827 / 573-751-1300
E-mail: dnr@dnr.mo.gov


**Missouri Department of
Natural Resources**
Clean Water Information System



- Account Settings
- More Information
- Logout

Event Search

Event: Bypass/Overflow Detail

Facility Name: Nixa WWTF
 Permit No: MO0028037

Record successfully added

* Indicates a Required Field

**Indicates a Required Field for Final Report

Once you enter the Event End Date & Time fields and Add Event/Save Changes, you will no longer be able to edit this record!

Event Details

Bypass = at the wastewater treatment plant; Overflow = in the collection system

Confirmation No: 1408

*Type of Event:

*Wet or Dry Event?

*Event Begin Date: (MM/DD/YYYY)

*Event Begin Time: (HH:MM) Military Time

**Event End Date: (MM/DD/YYYY)

**Event End Time: (HH:MM) Military Time

Event Duration (hh:mm) 0d:0h:30m:

*Initial Report Date: (MM/DD/YYYY)

*Initial Report Time: (HH:MM) Military Time

Discharged To:

*Reported By:

*Immediate Contact ()

Ongoing?:

*Estimated Volume at time of Initial Report (gallons):

Is bypass/overflow reaching Waters of the State?

Effected Waterbody:

**Cause of Event:

Cause of Event Comments:

Event Type:

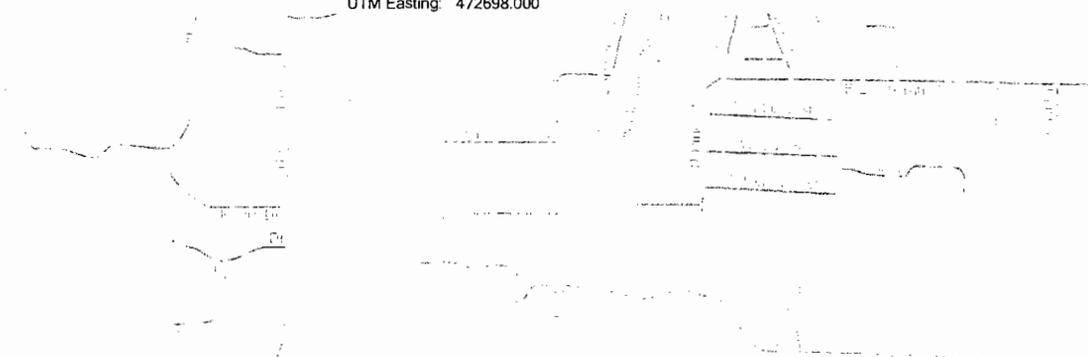
* To select more than one choice hold down the control key on the keyboard

Additional Impact:

Location Information

County Christian

UTM Easting: 472698.000



and drag the map to pan



- Account Settings
- More Information
- Logout

Event Search

Overflow / Bypass Event Details

Initial Report

Facility Name: Nixa WWTF
 Permit No: MO0028037

* Indicates a Required Field

**Indicates a Required Field for Final Report

Once you enter the Event End Date & Time fields and Add Event/Save Changes, you will no longer be able to edit this record!

Event Details

Bypass = at the wastewater treatment plant; Overflow = in the collection system

Confirmation No: 1538

*Type of Event: SSO (Overflow) v

*Wet or Dry Event? Dry v

*Event Begin Date: 01/02/2013 (MM/DD/YYYY)

*Event Begin Time: 12:00 (HH:MM) Military Time

**Event End Date: 01/04/2013 (MM/DD/YYYY)

**Event End Time: 12:00 (HH:MM) Military Time

Event Duration (hh:mm) 2d:0h:0m:

*Initial Report Date: 01/04/2013 (MM/DD/YYYY)

*Initial Report Time: 15:33 (HH:MM) Military Time

Discharged To: Ground v

*Reported By: Milton Dicken

*Immediate Contact (417) 725 -2353

Ongoing?

*Estimated Volume at time of Initial Report (gallons): 1000.00

Is bypass/overflow reaching Waters of the State?

Effected Waterbody: Dry Drainage Ditch

**Cause of Event: Plugged Sewer v

Cause of Event Comments:

Event Type: Manhole v

* To select more than one choice hold down the control key on the keyboard

- Additional Impact:
- Fish Kill
 - Public Beach or Public Use Area Impacted
 - Dry Weather Release**
 - Drinking Water Intakes Affected
 - Release Volume Greater Than 50,000 Gal

Location Information

County Christian

UTM Easting: 471386.701

UTM Northing: 4099304.018

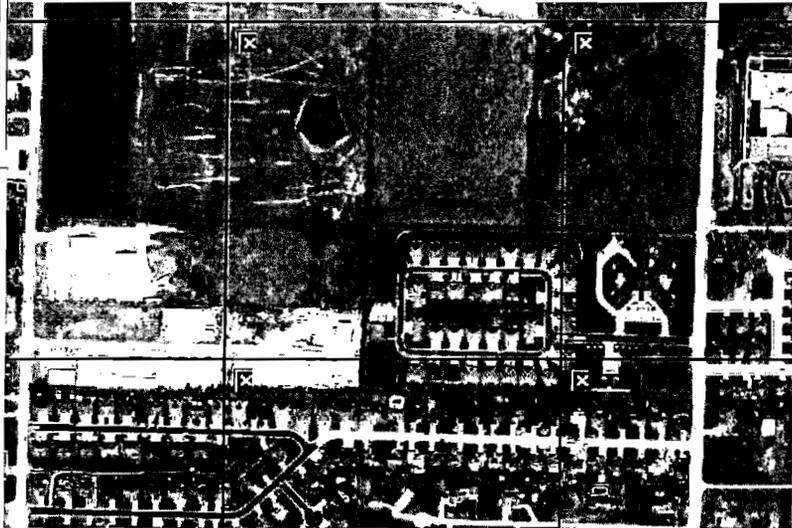
* Location Description

Double click on the map to zoom in. The mouse wheel or the slider bar on the left side of the map may be used to zoom in or out. Use the arrow buttons on the edges of the map or hold down the left mouse button and drag the map to move to another location. Optionally, select a County, City or Zip Code from the drop downs to zoom to an area, OR you may enter an address (number street city) and select the 'Locate' button to zoom to that location.

County: Christian v City: v Zip Code: v Address: Locate

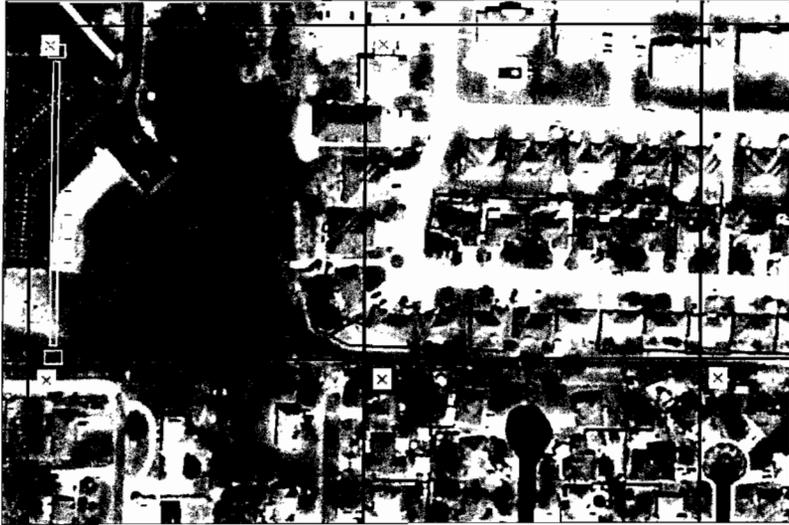
Scale 1:6,000 Easting: 471,830 Northing: 4,099,304 NAD83 UTM 15N

Select the red indicator to activate the marking tool then single click on the map to mark the location of your event.



[Add Additional Event](#)

Select the red indicator to activate the marking tool then single click on the map to mark the location of your event.



The image shows an aerial photograph of a residential or commercial area with a grid overlay. Several 'X' markers are placed on the map to indicate specific locations. The markers are located at various points across the grid, including one in the top-left corner, one in the top-middle, one in the top-right, one in the middle-left, one in the middle-right, one in the bottom-left, one in the bottom-middle, and one in the bottom-right.

5 - Day Report

Estimated Final Total Volume (gallons):

Did bypass reach Waters of the State?

Response:

[Add Additional Event](#)



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E-mail: [dnr@dnr.mo.gov](#)

 **Missouri Department of
Natural Resources**
Clean Water Information System

- Account Settings
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Event Search

Facility Name: Nixa WWTF
 Permit No: MO0028037

Record successfully added.

* Indicates a Required Field
 ** Indicates a Required Field for Final Report
 Once you enter the Event End Date & Time fields and Add Event/Save Changes, you will no longer be able to edit this record!

Event Details

Bypass = at the wastewater treatment plant; Overflow = in the collection system

Confirmation No: 3682

* Type of Event:

Wet or Dry Event?

Event Begin Date: (MM/DD/YYYY)

* Event Begin Time: (HH:MM) Military Time

** Event End Date: (MM/DD/YYYY)

** Event End Time: (HH:MM) Military Time

Event Duration (hh:mm) 0d:13h:0m:

* Initial Report Date: (MM/DD/YYYY)

* Initial Report Time: (HH:MM) Military Time

Discharged To:

* Reported By:

* Immediate Contact ()

Ongoing?:

* Estimated Volume at time of Initial Report (gallons):

Is bypass/overflow reaching Waters of the State?

Effected Waterbody:

* Cause of Event:

Cause of Event Comments:

Event Type:

* To select more than one choice hold down the control key on the keyboard

Additional Impact:

Location Information

County Christian

UTM Easting: 473553.425

UTM Northing: 4098823.150

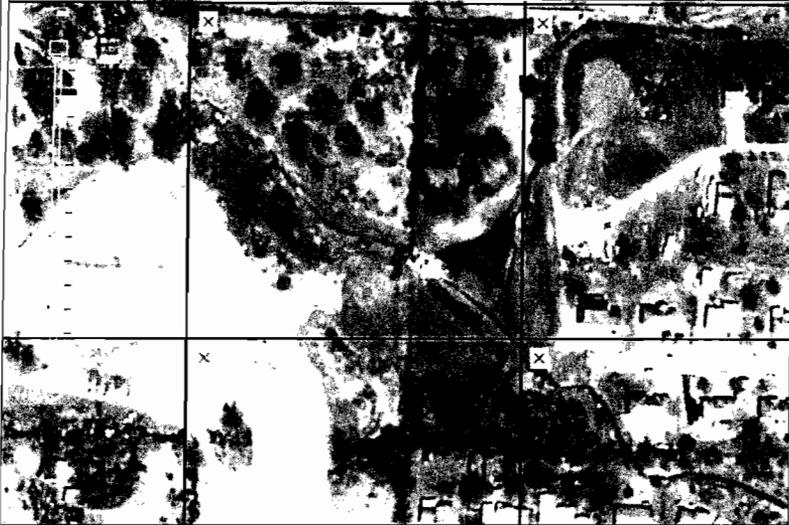
* Location Description

Double click on the map to zoom in. The mouse wheel or the slider bar on the left side of the map may be used to zoom in or out. Use the arrow buttons on the edges of the map or hold down the left mouse button and drag the map to move to another location. Optionally, select a County, City or Zip Code from the drop downs to zoom to an area, OR you may enter an address (number street city) and select the 'Locate' button to zoom to that location.

County: City: Zip Code: Address:

Scale 1:2,400

Select the red indicator to activate the marking tool then single click on the map to mark the location of your event.



5 - Day Report

** Estimated Final Total Volume (gallons):

Did bypass reach Waters of the State?

** Response:

[Add Additional Event](#)



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Natural Resources

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E-mail: [dnr@dnr.mo.gov](#)



- Account Settings
- More Information
- Logout

Event Search

Overflow / Bypass Event Details

Initial Report

Facility Name: Nixa WWTF
Permit No: MO0028037

* Indicates a Required Field

**Indicates a Required Field for Final Report

Once you enter the Event End Date & Time fields and Add Event/Save Changes, you will no longer be able to edit this record!

Event Details

Bypass = at the wastewater treatment plant; Overflow = in the collection system

Confirmation No: 1408

*Type of Event: SSO (Overflow) v

*Wet or Dry Event? Dry v

*Event Begin Date: 10/31/2012 (MM/DD/YYYY)

*Event Begin Time: 16:00 (HH:MM) Military Time

**Event End Date: 10/31/2012 (MM/DD/YYYY)

**Event End Time: 16:30 (HH:MM) Military Time

Event Duration (hh:mm) 0d:0h:30m:

*Initial Report Date: 11/01/2012 (MM/DD/YYYY)

*Initial Report Time: 15:40 (HH:MM) Military Time

Discharged To: Ground v

*Reported By: Clint Benham

*Immediate Contact: (417) 844-1529

Ongoing?:

*Estimated Volume at time of Initial Report (gallons): 500.00

Is bypass/overflow reaching Waters of the State?

Effected Waterbody:

**Cause of Event: Other Cause v

Cause of Event Comments: Wind was blowing from the west. The pressure in the line was too high. The water in the line was too high. The water in the line was too high. The water in the line was too high.

Event Type: v

* To select more than one choice hold down the control key on the keyboard

Additional Impact: Fish Kill
Public Beach or Public Use Area Impacted
Dry Weather Release
Drinking Water Intakes Affected
Release Volume Greater Than 50,000 Gal

Location Information

County Christian

UTM Easting: 472698.000

UTM Northing: 4102269.094

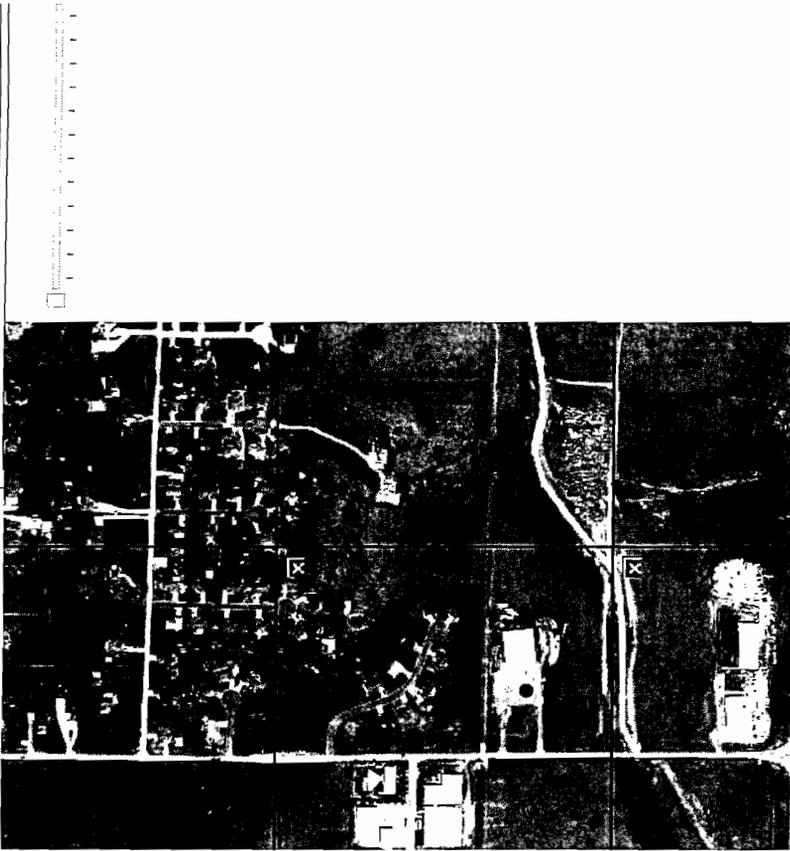
* Location Description: [Empty text box]

Double click on the map to zoom in. The mouse wheel or the slider bar on the left side of the map may be used to zoom in or out. Use the arrow buttons on the edges of the map or hold down the left mouse button and drag the map to move to another location. Optionally, select a County, City or Zip Code from the drop downs to zoom to an area, OR you may enter an address (number street city) and select the 'Locate' button to zoom to that location.

County: Christian v City: v Zip Code: v Address: v

Scale 1:6,000 Easting: 473,017 Northing: 4,102,199 NAD83 UTM 15N

Select the red indicator to activate the marking tool then single click on the map to mark the location of your event.



[Add Additional Event](#)