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-0137901
Owner: Address:	Missouri Department of Natural Resources - Division of State Parks P.O. Box 176 Jefferson City, MO 65102
Continuing Authority: Address:	Same as Above Same as Above
Facility Name: Facility Address:	MDNR, Echo Bluff State Park WWTP 3 35244 Echo Bluff Drive Eminence, MO 65466
Legal Description: UTM Coordinates:	NE ¼, NW ¼, Sec. 8, T 30N, R 4W, Shannon County X=641276, Y=4131083
Receiving Stream: First Classified Stream and ID: USGS Basin & Sub-watershed No.:	Tributary to Sinking Creek Sinking Creek (P) (2650) (11010008-0303)

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

FACILITY DESCRIPTION

Permitted Feature #001 – POTW – SIC #4952 The use or operation of this facility shall be by or under the supervision of a Certified "D" Operator. Septic tank/recirculating sand filter/common dosing tank/ wastewater soil absorption system/ sludge disposal by contract hauler Design population equivalent is 90 Average design flow is 9,019 gallons per day Design sludge production is 0.48 dry tons per year

This permit authorizes only wastewater 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 644.051.6 of the Law.

July 1, 2016 Effective Date

ar rtment of Matural Resources Sara Parker Pauley, Director, Depa

as, Director, Water Protection Program

March 31, 2019 Expiration Date

A. STANDARD CONDITIONS

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

B. SPECIAL CONDITIONS

- 1. 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 Publically Owned Treatment Works or any substantial change in the volume or character of pollutants being introduced.

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

- 2. All permitted features must be clearly marked in the field. The permitted features and land application fields shall also be marked on the aerial or topographic site map included with the Operation and Maintenance manual.
- 3. Permittee will cease operation 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.
- 4. 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.
- 5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 μ g/L);
 - (2) Two hundred micrograms per liter (200 μg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 μg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five times the maximum concentration value reported for the pollutant in the permit application;

B. SPECIAL CONDITIONS (continued)

- (4) The level established by the Director in accordance with 40 CFR 122.44(f).
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.
- 6. This general permit authorizes the land application of domestic wastewater only. There shall be no land application of any pollutant in sufficient amounts to cause harm to the soil structure or productivity, or cause stress or toxicity to plant life.
- 7. There shall be no discharge of any material from this facility to waters of the state. Wastewater shall be stored and land applied during suitable conditions so that there is no-discharge from the storage basins or irrigation sites.
- 8. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).
- 9. Subsurface application rates shall not exceed 0.2 gallons per day per square foot (gpd/ft²), which is the soil permeability rate of application field. The application field consists of a total area of 67,642 square feet. Subsurface application shall not cause surfacing of wastewater.
- 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.
- 11. Bypasses are not authorized at this facility unless they meet the criteria in 40 CFR 122.41(m). If a bypass occurs, the permittee shall report in accordance to 40 CFR 122.41(m)(3)(i), and with Standard Condition Part I, Section B, subsection 2.b. Bypasses are to be reported to the Southeast 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.
- 12. The facility must be sufficiently secured to restrict entry by children, livestock and unauthorized persons as well as to protect the facility from vandalism.
- 13. Access to subsurface distribution areas must be controlled to prevent damage from heavy vehicles or digging.
- 14. A least one gate must be provided to access the wastewater treatment facility and provide for maintenance and mowing. The gate shall remain locked except when opened by the permittee to perform operational monitoring, sampling, maintenance, mowing, or for inspections by the Department.
- 15. At least one 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 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 high and shall be securely fastened to the fence, equipment or other suitable locations.
- 16. The permittee shall develop, maintain and implement an Operation and Maintenance (O&M) Manual that includes all necessary items to ensure the operation and integrity of the waste handling and land application systems, including key operating procedures, an aerial or topographic site map with the permitted features, land application fields, and irrigation buffer zones marked, and a brief summary of the operation of the facility. The O&M manual shall be made available to the operator. The O&M Manual shall be reviewed and updated at least every five years.
- 17. An all-weather access road shall be provided to the treatment facility.
- 18. Records of maintenance for subsurface systems must be maintained for at least 5 years. Examples include filter replacement, pumping (removal) of sludge from tanks, etc. These records shall be made available during inspection, or upon request to the department.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES FACT SHEET FOR THE PURPOSE OF ISSUANCE OF MO-0137901 MDNR, ECHO BLUFF STATE PARK WWTP 3

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 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 Minor

Part I – Facility Information

Facility Type: POTW - SIC #4952

Facility Description:

Primary septic tanks/recirculation tanks/ sand filters/ common dosing tank/ wastewater soil absorption system/ sludge disposal by contract hauler

Application Date: 12/4/2014

<u>Comments:</u> Facility is a no discharge system

Part II – Operator Certification Requirements

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

As per [10 CSR 20-6.010(8) Terms and Conditions of a Permit], permittees 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

_	
	- Municipalities
	- Public Sewer District
	- County
	- Public Water Supply Districts
	- Private Sewer Company regulated by the Public Service Commission
Х	- State agency
	- Federal agency

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

The Department requires this facility to retain the services of a certified operator due to: Population Equivalent greater than two hundred (200).

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

Operator's Name:	Glynn Ralph
Certification Number:	12052
Certification Level:	С

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

Part III- Operational Monitoring

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

Part IV – Receiving Stream Information

While this facility is no discharge, a receiving stream is listed for the purposes of showing what stream would be affected in the event of an emergency release due to an acute or chronic rain event. 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: PERMITTED FEATURE #001

WATER-BODY NAME	CLASS	WBID	DESIGNATED USES*	12-DIGIT HUC	DISTANCE TO CLASSIFIED (MI)
Tributary to Sinking Creek			General Criteria	11010008-	~0.10
Sinking Creek	Р	2650	IRR, LWW, AQL, CLF, WBC(A), SCR, HPP	0303	

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

RECEIVING STREAM MONITORING REQUIREMENTS:

No receiving water monitoring requirements recommended at this time.

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

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

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

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

ANTI-BACKSLIDING:

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

 \boxtimes - New facility, backsliding does not apply.

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.

 \square - 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.

 \boxtimes - Permitee is not authorized to land apply biosolids. Sludge/biosolids are removed by contract hauler.

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 permittee/facility is not currently under Water Protection Program enforcement action.

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.

REMOVAL EFFICIENCY:

This facility is subject to the Secondary Treatment standard of 85 percent removal [40 CFR Part 133.102(a)(3) & (b)(3)]. 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). This is a no-discharge facility, therefore removal efficiency is 100 percent and influent monitoring is not required.

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.

 \square - This facility is not required to develop or implement a program for maintenance and repair of the collection system; however, it is a violation of Missouri State Environmental Laws and Regulations to allow untreated wastewater to discharge to waters of the state.

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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(10), 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.

 \boxtimes - This permit does not contain a SOC

VARIANCE:

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

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

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.

40 CFR 122.41(M) - BYPASSES:

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

 \boxtimes - This facility does not anticipate bypassing.

Part VI – Cost Analysis for Compliance

Pursuant to Section 644.145, RSMo., the Department is required to determine whether a permit or decision is affordable and makes a finding of affordability for certain permitting and enforcement decisions. This requirement applies to discharges from combined or separate sanitary sewer systems or publically-owned treatment works.

 \square - 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 VII – 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 four 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 January 16, 2015 to February 16, 2015. No responses received.

DATE OF FACT SHEET: JANUARY 7, 2015

COMPLETED BY:

JOE BLUME, E.I., ENVIRONMENTAL ENGINEER MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM FINANCIAL ASSISTANCE CENTER (573) 751-5937 <u>conrad.blume@dnr.mo.gov</u>

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.	0
Maximum: 10 pt Design Flow (avg. day) or peak month; use greater (Max 10 pts.)	1 pt. / MGD or major fraction thereof.	0
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	
PRELIMINARY TREATMENT	F - Headworks	
Screening and/or comminution	3	
Grit removal	3	
Plant pumping of main flow (lift station at the headworks)	3	
PRIMARY TREATM	ENT	
Primary clarifiers	5	
Combined sedimentation/digestion	5	
Chemical addition (except chlorine, enzymes)	4	
REQUIRED LABORATORY CONTROL – performed	by plant personnel (highest level only))
Push – button or visual methods for simple test such as pH, Settleable solids	3	
Additional procedures such as DO, COD, BOD, titrations, solids, volatile content	5	
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etc.	7	
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph	10	
ALTERNATIVE FATE OF E	EFFLUENT	
Direct reuse or recycle of effluent	6	
Land Disposal – low rate	3	3
High rate	5	
Overland flow	4	
Total from page ONE (1)		3

APPENDIX - CLASSIFICATION WORKSHEET (CONTINUED):

ITEM	POINTS POSSIBLE	POINTS ASSIGNED	
VARIATION IN RAW WASTE (highest level only) (DMR exceedances and Design Flow exceedance			
Variation do not exceed those normally or typically expected	0		
Recurring deviations or excessive variations of 100 to 200 percent in strength and/or flow	2		
Recurring deviations or excessive variations of more than 200 percent in strength and/or flow	4		
Raw wastes subject to toxic waste discharge	6		
SECONDARY TREAT	MENT		
Trickling filter and other fixed film media	10	10	
Activated sludge with secondary clarifiers (including extended aeration and oxidation ditches)	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		
Carbon regeneration	4		
DISINFECTION			
Chlorination or comparable	5		
Dechlorination	2		
On-site generation of disinfectant (except UV light)	5		
UV light	4		
SOLIDS HANDLING - S	LUDGE		
Solids Handling Thickening	5		
Anaerobic digestion	10		
Aerobic digestion	6		
Evaporative sludge drying	2		
Mechanical dewatering	8		
Solids reduction (incineration, wet oxidation)	12		
Land application	6		
Total from page TWO (2)		20	
Total from page ONE (1)		3	
Grand Total		23	

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

APPENDIX – AFFORDABILITY ANALYSIS:

Missouri Department of Natural Resources Water Protection Program Affordability Determination and Finding

(In accordance with RSMo 644.145)

Missouri Department of Natural Resources' Division of State Parks MDNR, Echo Bluff State Park WWTP 3, New Permit Missouri State Operating Permit # MO-0137901

Section 644.145 RSMo requires the Department of Natural Resources 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 or publicly-owned treatment works."

Description:

The Department of Natural Resources' Division of State Parks' Echo Bluff State Park WWTP 3, is located in Shannon County, MO. Facility 3 serves the service building and caretaker's residence located in the northwest corner of the property and the full service RV camping facilities and the walk-in camping facilities located along the north side of the property, all on the west side of Sinking Creek. Facility 3 will also service the group camping area located in the southwest corner of the property, also on the west side of Sinking Creek. The treatment system consists of an onsite primary septic tank with septic tank effluent pumping, a recirculating sand filter, and a pressurized seepage disposal field. Flow from the group camping area will be collected in pit privies that will be pumped out and trucked over to the treatment facility. Facility 3 has a design average flow of 9,019 gpd. The average flow includes disposal of the group camping pit privies.

Total Connections:Permitted Features126 total#001:connections

New Permit Requirements or Requirements Now Being Enforced:

This is a new operating permit for a no-discharge wastewater treatment facility (WWTF); however, the State government has allotted funds for operation, maintenance, repair and potential replacement of infrastructure including the WWTF. State agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities. Due to the Division of State Parks having already acquired funding for purposes such as necessary improvements to the WWTF, the conditions of the operating permit have been determined to cause a low cost burden on the Division of State Parks. In addition, the Financial Assistance Center, located within the Department of Natural Resources' Water Protection Program, is providing a grant of up to \$1,260,000 to help fund the construction of this WWTF and two others within Echo Bluff State Park.

Range of Anticipated Costs Associated with Complying with Requirements:

This is a new operating permit with new conditions. Therefore, it is anticipated that the permittee should incur additional costs for this facility.

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

This is a new operating permit with new conditions; therefore, there are new anticipated costs for the permittee to comply with this permit. The budgetary process does not depend on a community's financial capability to secure funding; rather existing Capital Improvement project funds delegated to the Agency are reallocated. Therefore, as a State Agency, the procurement process does not require changes to rate structures, and no communities incur additional financial burden.

(2) Affordability of pollution control options for the individuals or households of the community;

This is a new operating permit with new conditions; therefore, there are new anticipated costs for the permittee to comply with this permit. State agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

MDNR, Echo Bluff State Park WWTP 3 MO-0137901, Shannon County Fact Sheet Page #10

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

This is a new operating permit with new conditions. The proposed system is appropriate for the situation at hand. Systems utilizing a septic tank, a recirculating sand filter, and low pressure pipe sub surface irrigation are cost-effective and provide protection to the environment through a no-discharge system.

(4) An assessment of other community investments relating to environmental improvements;

This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

(5) 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; and,

This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

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

This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.

(7) An assessment of any other relevant local community economic condition. The Division of State Parks did not report any other relevant local economic conditions.

Conclusion and Finding

As a result of reviewing the above affordability criteria, the Department hereby finds that the action described above will result in a low cost burden for the Division of State Parks, but no burden with regard to the community's or State agency's overall financial capability. This is for a new facility and the operating permit will require operating conditions; therefore new financial burdens are anticipated. State Agencies accomplish capital improvements through an appropriation process that does not affect individuals or their communities.



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

Part I – General Conditions

Section A - Sampling, Monitoring, and Recording

1. Sampling Requirements.

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

2. Monitoring Requirements.

a.

- Records of monitoring information shall include:
- i. The date, exact place, and time of sampling or measurements;
- ii. The individual(s) who performed the sampling or measurements;
- iii. The date(s) analyses were performed;
- iv. The individual(s) who performed the analyses;
- v. The analytical techniques or methods used; and
- vi. The results of such analyses.
- b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
- 3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
- Test Procedures. The analytical and sampling methods used shall conform 4. to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is "sufficiently sensitive" when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility's discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
- 5. Record Retention. Except for records of monitoring information required by the permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. Illegal Activities.

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

Section B - Reporting Requirements

1. Planned Changes.

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

2. Non-compliance Reporting.

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



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

7. Discharge Monitoring Reports.

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

Section C - Bypass/Upset Requirements

1. Definitions.

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

2. Bypass Requirements.

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

- b. Notice.
 - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
- c. Prohibition of bypass.
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 - 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.

3. Upset Requirements.

- a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B

 Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 iv. The permittee complied with any remedial measures required under
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
- c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section D - Administrative Requirements

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



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

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

2. Duty to Reapply.

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

for applications to be submitted later than the expiration date of the existing permit.)

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

6. Permit Actions.

- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - i. Violations of any terms or conditions of this permit or the law;ii. Having obtained this permit by misrepresentation or failure to
 - disclose fully any relevant facts; iii. A change in any circumstances or conditions that requires either a
 - temporary or permanent reduction or elimination of the authorized discharge; or
 - iv. Any reason set forth in the Law or Regulations.
- b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

7. Permit Transfer.

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



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

12. Closure of Treatment Facilities.

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

13. Signatory Requirement.

- a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
- b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
- c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
- 14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.



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

1. Definitions

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

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

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

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

2. Identification of Industrial Discharges

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

3. Application Information

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

4. Notice to the Department

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

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

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

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

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

SECTION A – GENERAL REQUIREMENTS

- 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.
- This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Actor under Chapter 644 RSMo.
- 8. In addition to STANDARD CONDITIONS, the Department may include sludge limitations in the special conditions portion or other sections of a site specific permit.
- 9. Alternate Limits in the Site Specific Permit.

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

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

SECTION B - DEFINITIONS

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

SECTION C – MECHANICAL WASTEWATER TREATMENT FACILITIES

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

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

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

SECTION E - INCINERATION OF SLUDGE

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

SECTION F - SURFACE DISPOSAL SITES AND SLUDGE LAGOONS

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

SECTION G - LAND APPLICATION

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

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

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

6. Agricultural and Silvicultural Sites:

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

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

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

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

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

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

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

TABLE 2	
Biosolids Low Metal Concentration	n 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.

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

TABLE 3

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)

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

TABLE 4 - Guidelines for land application of other trace substances¹

- 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 removals unless the nitrogen content of the biosolids does not exceed 50,000 milligrams per kilogram of total nitrogen on a dry weight basis and biosolids application rate is less 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).¹ Volatilization 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, apply biosolids only when grass is vegetated and maintained with at least 80 percent ground cover at a rate of two dry tons per acre per year or less.
- i. No biosolids may be land applied in an area that it is reasonably certain that pollutants will be transported into waters of the state.
- j. Do not apply biosolids to sites with soil that is snow covered, frozen or saturated with liquid without prior approval by the Department.
- k. Biosolids / sludge applicators must keep detailed records up to five years.

SECTION H - CLOSURE REQUIREMENTS

- 1. This section applies to all wastewater facilities (mechanical, industrial, and lagoons) and sludge or biosolids storage and treatment facilities and incineration ash ponds. It does not apply to land application sites.
- 2. Permittees of a domestic wastewater facility who plan to cease operation must obtain Department approval of a closure plan which addresses proper removal and disposal of all residues, including sludge, biosolids. Mechanical plants, sludge lagoons, ash ponds and other storage structures must obtain approval of a closure plan from the Department. Permittee must maintain this permit until the facility is closed in accordance with the approved closure plan per 10 CSR 20 6.010 and 10 CSR 20 6.015.
- 3. Residuals that are left in place during closure of a lagoon or earthen structure or ash pond shall not exceed the agricultural loading rates as follows:
 - a. Residuals shall meet the monitoring and land application limits for agricultural rates as referenced in Section H of these standard conditions.
 - b. If a wastewater treatment lagoon has been in operation for 15 years or more without sludge removal, the sludge in the lagoon qualifies as a Class B biosolids with respect to pathogens due to anaerobic digestion, and testing for fecal coliform is not required. For other lagoons, testing for fecal coliform is required to show compliance with Class B biosolids limitations. In order to reach Class B biosolids requirements, fecal coliform must be less than 2,000,000 colony forming units or 2,000,000 most probable number. All fecal samples must be presented as geometric mean per gram.
 - c. The allowable nitrogen loading that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. For a grass cover crop, the allowable PAN is 300 pounds/acre.
 - i. PAN can be determined as follows:
 - (Nitrate + nitrite nitrogen) + (organic nitrogen x 0.2) + (ammonia nitrogen x volatilization factor¹).
- 4. When closing a domestic wastewater treatment lagoon with a design treatment capacity equal or less than 150 persons, the residuals are considered "septage" under the similar treatment works definition. See Section B of these standard conditions. Under the septage category, residuals may be left in place as follows:
 - a. Testing for metals or fecal coliform is not required
 - b. If the wastewater treatment lagoon has been in use for less than 15 years, mix lime with the sludge at a rate of 50 pounds of hydrated lime per 1000 gallons (134 cubic feet) of sludge.
 - c. The amount of sludge that may be left in the lagoon shall be based on the plant available nitrogen (PAN) loading. 100 dry tons/acre of sludge may be left in the basin without testing for nitrogen. If 100 dry tons/acre or more will be left in the lagoon, test for nitrogen and determine the PAN using the calculation above. Allowable PAN loading is 300 pounds/acre.

- 5. Residuals left within the domestic lagoon shall be mixed with soil on at least a 1 to 1 ratio, the lagoon berm shall be demolished, and the site shall be graded and contain ≥70% vegetative density over 100% of the site so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
- 6. Lagoons and/or earthen structure and/or ash pond closure activities shall obtain a storm water permit for land disturbance activities that equal or exceed one acre in accordance with 10 CSR 20-6.200
- When closing a mechanical wastewater and/or industrial process wastewater plant; all sludge must be cleaned out and disposed of in accordance with the Department approved closure plan before the permit for the facility can be terminated.
 - a. Land must be stabilized which includes any grading, alternate use or fate upon approval by the Department, remediation, or other work that exposes sediment to stormwater per 10 CSR 20-6.200. The site shall be graded and contain ≥70% vegetative density over 100% of the site, so as to avoid ponding of storm water and provide adequate surface water drainage without creating erosion.
 - 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.

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



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

² Calculate plant available nitrogen, if biosolids application is more than 2 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 pretreatment 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.

- 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. If biosolids application exceeds 2 dry tons/acre/year, reports biosolids nitrogen results, Plant Available Nitrogen (PAN) in pounds/acre, crop nitrogen requirement.
 - 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.

MISSOURI DEPARTMENT OF NATURAL RESOURCES							
MISSOURI DEPARTMENT OF NATURAL RESOURCES					AGENCY USE ONLY		
WATER PROTECTION PROGRAM					NUMBER		
			GN FLOW LESS THAN OR	DATE	EQEIVED FEE SUBMITTED		
EQUAL TO 100,000 GALI		PEEOE		///	1/20/5		
1. THIS APPLICATION IS FOR:	NG INSTRUCTIONS	DEFUR					
An operating permit for a new or	unpermitted facility.	Const	ruction Permit #				
(Please include completed antide	gradation review or r	equest f	for antidegradation review, see ir	structions)			
An operating permit renewal:	Permit #MO-	•	Expiration Date				
An operating permit modification:			Reason:				
		(see ins	structions for appropriate fee)?	Z YE	S 🗌 NO		
				TELEPHO	NE NUMBER WITH AREA CODE		
Current River SP, New Development -	Facility 3 WWTP						
ADDRESS (PHYSICAL)		CITY		STATE	ZIP CODE		
County Road 19-250		Salem	1	мо	65560		
2.1 Legal description:	1/4, 1/4,	1∕₄, Sec.	8,T30,R4W	Co	unty Shanno		
2.2 UTM Coordinates Easting (X): 641270 Nort	hing (Y)): 4131091				
For Universal Transverse Mercator (UTM),	Zone 15 North reference	ced to No	orth American Datum 1983 (NAD83)				
2.3 Name of receiving stream: I	N/A						
	tewater outfalls	st	tormwater outfalls instrea	im monitori	ng sites		
3. OWNER			EMAIL ADDRESS		IE NUMBER WITH AREA CODE		
Department of Natural Resources Divis	sion of State Parks		EMAIL ADDRESS	(573) 52			
ADDRESS		CITY		STATE ZIP CODE			
1659 East Elm, P.O. Box 176		Jeffers	son City	мо	65102		
3.1 Request review of draft perm	it prior to public notic	e?	✓ YES NO				
3.2 Are you a publicly owned tre			VES NO				
3.3 Are you a privately owned tre	eatment works?		YES 🗸 NO				
			the Public Service Commission?		√ NO		
4. CONTINUING AUTHORITY: Perma		that will	I serve as the continuing authors	ority for the	e operation,		
Maintenance and modernization of	the facility.		EMAIL ADDRESS	TELEPHON	E NUMBER WITH AREA CODE		
Department of Natural Resources Divis	sion of State Parks			(573) 52	2-6390		
ADDRESS		CITY		STATE	ZIP CODE		
1659 East Elm, P.O. Box 176		Jeffers	on City	MO	65102		
If the continuing authority is different the description of the responsibilities of bo				ent betweer	n the two parties and a		
5. OPERATOR	<u>.</u>		· · · ·				
NAME	TITLE		CERTIFICATE NUMBER				
				-			
EMAIL ADDRESS			TELEPHONE NUMBER WITH AREA COD	E			
6. FACILITY CONTACT							
Chris Crocker			Director of Planning & Develo	pment			
EMAIL ADDRESS			TELEPHONE NUMBER WITH AREA COD	-			
chris.crocker@dnr.mo.gov			(573) 522-6390				
ADDRESS		-		STATE	ZIP CODE		
1659 East Elm, P.O. Box 176		Je	efferson City	мо	65102		
MO 780-1512 (06-14)					· · · ·		

7. DESCRIPTION OF FACILITY

7.1 Process Glow Diagram or Schematic: Provide a diagram showing the processes of the treatment plant. Show all of the treatment units, including disinfection (e.g. – chlorination and dechlorination), influents and outfalls. Indicate any treatment process changes in the routing of wastewater during dry weather and peak wet weather. Include a brief narrative description of the diagram. Attach sheets as necessary.

Please see attached overall site plan drawing (Sheet G-002) and brief narrative description with schematic design (Figure 2A) included in the attached Engineering Report.

7.2 Attach an aerial photograph or USGS topographic map showing the location of the facility and outfall. See attached USGS map -No outfall

8. ADDITIONAL FACILITY INFORMATION			
8.1 Facility SIC code: 4952 ; Discharge SIC code:			
8.2 Number of people presently connected or population equivalent (P.E.) 0 Design P.E. 90			
8.3 Connections to the facility:			
Number of units presently connected:			
Homes Trailers Apartments Other (including industrial)			
Number of commercial establishments:			
8.4 Design flow: 9,019 Actual flow: N/A			
8.5 Will discharge be continuous through the year? Yes √ No (If yes, explain.)			
Discharge will occur during the following months: No Discharge, subsurface disposal			
How many days of the week will discharge occur?			
8.6 / Is industrial waste discharged to the facility? Yes ✓ No			
8.7 Does the facility accept or process leachate from landfills?Yes ✓ No			
8.8 Is wastewater land applied? ✓ Yes No If yes, is Form I attached? ✓ Yes No			
8.9 Does the facility discharge to a losing stream or sinkhole? Yes ✓ No			
8.10 Has a wasteload allocation study been completed for this facility?Yes ✓ No			
9. LABORATORY CONTROL INFOMRATION			
LABORATORY WORK CONDUCTED BY PLANT PERSONNEL			
Lab work conducted outside of plant. ✓ Yes No			
Push-button or visual methods for simple test such as pH, settlable solids. Yes 🖌 No			
Additional procedures such as dissolved oxygen, chemical oxygen demand, biological oxygen demand, titrations, solids, volatile content. ✓ Yes No			
More advanced determinations such as BOD seeding procedures, fecal coliform, nutrients, total oils, phenols, etcYes ∠ No			
Highly sophisticated instrumentation, such as atomic absorption and gas chromatograph. Yes 🖌 No			
10. COLLECTION SYSTEM			
10.1 Length of pipe in the sewer collection system? Feet, or Miles (either unit is appropriate)			
10.2 Does significant infiltration occur in the collection system?Yes ✓ No			
If yes, briefly explain any steps underway or planned to minimize inflow and infiltration:			
11. BYPASSING			
Does any bypassing occur in the collection system or at the treatment facility? No			
If yes, explain:			
MO 780-1512 (06-14)			

12. SLUDGE HANDLING, USE AND DISPOSAL				
12.1 Is the sludge a hazardous waste as defined by 1				
12.2 Sludge production, including sludge received from	n others:Design dry tons/y	earActual dry tons/year		
12.3 Capacity of sludge holding structures: Sludge storage provided:				
12.4 Type of Storage: Holding tank Basin Concrete Page 	☐ Building ☐ Lagoon d	escribe)		
12.5 Sludge Treatment: Anaerobic Digester Lagoon Storage Tank Aerobic Digester Lime Stabilization Air or Heat D		scription) Septic Tanks		
12.6 Sludge Use or Disposal: Land Application Surface Disposal (Sludge Disposal Lagoon, Sludge held for more than two years) Image: Contract Hauler Hauled to Another treatment facility Incineration Sludge Retained in Wastewater treatment lagoon Solid waste landfill 12.7 Person responsible for hauling sludge to disposal facility:				
By applicant By others (complete below)	EMAIL ADD	RESS		
ADDRESS		STATE ZIP CODE		
CONTACT PERSON	TELEPHONE NUMBER WITH AREA CODE	PERMIT NO. MO-		
12.8 Sludge use or disposal facility □ By applicant ☑ By others (Please	complete below.)			
NAME	EMAIL ADD	RESS		
ADDRESS	ČITY	STATE ZIP CODE		
CONTACT PERSON	TELEPHONE NUMBER WITH AREA CODE	PERMIT NO. MO-		
12.9 Does the sludge or biosolids disposal comply with federal sludge regulations under 40 CFR 503? ☑Yes □ No (Please explain)				
13. CERTIFICATION				
I certify that I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law.				
NAME (TYPE OR PRINT) OEPICIAL TITLE TELEPHONE NUMBER WITH AREA CODE Chris Grocher Director of Planning & Development (573) 522-6390				
SIGNATURE DATE SIGNED DATE SIGNED L-14-2015				
MO 780 1512 06 1/100				

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

FOR AGENCY USE ONLY		
CHECK NUMBER		
DATE RECEIVED	FEE SUBMITTED	

1.00 BRIEFLY DESCRIBE THE NATURE OF YOUR BUSINESS State Park					
is	nis facility is now in operation unde not a proposed increase in design	stormwater or wastewater flow.			
	nis facility is now in operation unde crease in design stormwater or wa			no there <u>is</u>	a proposed
🗌 d. Co	his is a new permit (for a new facility construction Permit if required by the	e General Permit.			
If you checked 2.00 NAME OF F	either item b or c above then you may need	d to submit an antidegradation review. See	instructions.		
Current Rive	er SP, New Development - Facility	3 WWTP			
2.10 ADDRESS (. ,	СІТҮ		STATE	ZIP CODE
County Roa		Salem		MO	65560
3.00 OWNE	R				
NAME		E-MAIL ADDRESS	PHONE NUMBER WITH	AREA CODE	FAX NUMBER WITH AREA CODE
STREET		CITY	STATE		ZIP CODE
	Elm, P.O. Box 176				
NAME		E-MAIL ADDRESS	PHONE NUMBER WITH	AREA CODE	FAX NUMBER WITH AREA CODE
STREET	Im P.O. Poy 176	CITY	STATE		ZIP CODE
	Elm, P.O. Box 176				
S.UU OPER	ATOR (if applicable)	·	PHONE NUMBER WITH		
6.00 FACIL	ITY CONTACT		·		
NAME			PHONE NUMBER WITH A	AREA CODE	FAX NUMBER WITH AREA CODE
TITLE					
	OUTFALL GIVE THE LEGAL DESCRIPTION (ATT				
Outfall Num Outfall Num	lber ¼¼ Iber ¼¼	Sec T R Sec T R		County County	
7.10 FOR EACH	OUTFALL LIST THE NAME OF THE RECEIVING	WATER			
Outfall Number Receiving Water Outfall Number Receiving Water					
7.20 Does the discharge(s) for which you are seeking a permit discharge to a combined sewer system? Yes No					
7.40 Primary SIC Code <u>4952</u>					
7.50 If this application is for a storm water permit, please provide an attached list of any materials that are stored outside and exposed to storm water.					
7.60 Attach a USGS 1" = 2,000' scale map showing the location of the facility in relation to the local road system. Indicate on the map the facility, the receiving stream, the points of discharge and the map section, township and range.					
7.70 If this is an existing discharge, submit a summary of pollutants analyzed in the past two years.					
7.80 If applying for a permit for an industrial site (i.e. stormwater), what is the method of domestic wastewater disposal?					
7.90 I certify that I am familiar with the information contained in the application and to the best of my knowledge and belief such information is true, complete and accurate, and if granted this					
permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to applicant under the Missouri Clean Water Law of Missouri Clean Water Commission.					
A. NAME AND OFF GAL TITLE (TYPE OR PRINT) Chris Crocker Lirector off Planning & Development (573) 522-6390					
C. SIGNATURE D. D. DATE SIGNED 1 14 7015					
MO 780-0795 10	KINK () () () () () () () () () (, [/VAY	1-17-2	JUL	

 The form must be ubuilted with the application for Bisled below). Persons with note than an expanding backstop appearing backston, and application for application during application beau at a single application. The applicate discharge and the application for application during application during and the application for application during application during and the application during application. Construction Permit 1970. Orenticutes Permit 1970. Orenticute	INSTRUCTIONS			
 A Chem Festician-Bacing - Stol due vitin application for new parmits "Stolyear withe parmits in effect, no fee required with nerveal application. Concentrate Annual Feedback Ann	other permitting arrangements are allowed by the terms of the general permit. Where multiple discharge points exist at a single operating location, one applicable discharges. If there are any questions concerning this form, please contact the appropriate regional office (see map available discharges).	lication may		
 unsure about the specific name for the general permit. Orinact the Water Proceedino Program, Water Pollution Brinnin at \$75.751.8225. Aas of Agrin 27, 2012, a new general permit is available for private domestic no-discharge facilities with design flow of less than 50,000 gallions per day. These facilities with design flow of less than 50,000 gallions per day. These facilities with design flow of less than 50,000 gallions per day. These facilities with design flow of less than 50,000 gallions per day. These facilities with design flow of less than 50,000 gallions per day. These facilities with a set of the specific requirements. Per dol. General permit may have specific antidogradation review requirements contained within 1. Go to the following websites to verify your specific requirements: For MO-R permits valw wave dam no outview/webplacemits/wavepermits-setormatic astrong flows and the permits and the set of the	Ag Chem Fertilizer/Pesticide Storage- \$150 due with application for new permits; \$50/year while permit is in effect; no fee required with renewal ap Concentrated Animal Feeding Operation, or CAFO - \$150 (due at application time only) Pesticide Applications - \$150 due for the application for new permit and each year until expiration; \$60/year thereafter; no fee required with renewa General Permit – Other (e.g., Motor Vehicle Salvage, Limestone Quarry, Petroleum Storage, Sand/Gravel Mining, etc.) - \$150 due with application and each year until expiration; \$60/year thereafter; no fee required with renewal application.	l application.		
 Intellite must have in industrial contributors and are subject to specific requirements. Please see the web address below to review MOC-0823 before applying for this permit. Fill out effer item (a, item (b, item (c, or item (d, as applicable. Each general permit any have specific antidegradation evview requirements contained within it. Go to the following websites to verify your specific requirements: For MOC 9 permits verification and the second statistic accounts activities account and the second statistic accounts activities activities and the second statistic accounts activities activities	F	is site. If you are		
 Each general permit way have specific antidogradulion review requirements contained within it. Go to the following websites to verify your specific requirements: For MC-9 permits vai www.dnr.mo.gov/ent/wsplotermits/wcccemils-semils-terms.htm. Effective Sept. 1. 2008, facilities are required to use <i>Missouri's Antidegradeton Rule and Implementation Procedure</i>. This document is available on the Web at www.dnr.mo.gov/ent/wsplotermits/wcccemils-semils-is/on-setting and implementation procedure. This document is available on the Web at www.dnr.mo.gov/ent/wsplotermits/wcccemils-semils-seconds.the Department at 800-361-426 yr 573-751-1300. For some general permits, a construction permit is required for to beginning construction of the facility. For other general permits, an exemption is provided from construction permit requirements. Please review the general permits at one of the web addresses noted above. For domestic wastewater treatment facilities, an operation of the facility in the facility index and specifications. A Summary of Design Data must be submitted with the engineering plants and specifications. A Summary of Design Data must be submitted with the engineering plants and specifications. Ower – legal name and address of owere. Continuing Authority – permanent organization which will serve as the continuing authority for the operation, (e.g., Intersection of Route A and M.) Ower – legal name and address of owere. Give name of person at the facility. Whe can be contacted by the Department if necessary. An outfall is the point(s) at which wastewater is discharged. For storm water this wastequent tributary until paker ontinuous flowing stream is reached. Receiving stream(s) – the name of the stream(s) to which the discharge is directed and any subsequent tributary until paker ontinuous flowing stream is reached. Acontial description of the facility. Sufficient Information aboud be submitted so the outfall may be lower by	facilities must have no industrial contributors and are subject to specific requirements. Please see the web address below to review MO-G823 before			
For MO-G permits visit yww dmm o overheivipoptermits/wopparemits/worket.htm For MO-G permits visit yww dmm o overheivipoptermits/worket.htm Effective Sept. 1, 2009, facilities are required to use Missouri? Antidegraphing construction of the facility. For other general permits, an construction permit is required prior to beginning construction of the facility. For other general permits, an exemption is provided from construction permit requirements. Please review the general permits at one of the veb addresses noted above. For domestic wastewater treatment facilities, an engineering report, plans, and specifications. A Summary of Design Data must be submitted of the facility. For other general permits, and specifications. 200 Name of facility – by what name is this facility known locally? (e.g., Scuthwest Sewage Treatment Plant or Oak Hill Mobile Home Park). 210 Give the street address of the facility. If the facility lacks a mailing address, give an accurate geographic description. (e.g., Intersection of Route A and M.) 00 Owner – legal name and address of owner. 100 Continuing Authority – permanent organization which will serve as the continuing authority for the operation, maintenance and modemization of the facility. 010 Give name of person at the facility who can be contacted by the Department if necessary. 020 An outflit is the point(s) which wastewaster is discharged. For storm water this may be the opint(s) where water leaves the property. Outfails should be given in terms of the leadility who can be o contacted by the partment at subscription to the orotal may belocacee by Department at ad.	1.10 Fill out either item (a., item (b., item (c., or item (d. as applicable.			
 www.drr.mc.gov/env/wpr/docs/lap-cwc-appr-050708.pdf. For more information please contact the Department at 800-81-827 or 573-51-1300. For some general permits, a construction permit sequided prior to beginning construction of the facility. For other general permits, an exemption is provided from construction permit expression release the permits and of the web addresses noted above. For domestic wasteweiter leastnest facilities, an operation of the facility is designed for greater than 22,900 gallons per day, the engineering report must be submitted and approved prior to submittal of the Form E Application, fee, plans and specifications. A Surmary of Design Data must be submitted with the engineering plans and specifications. Que me of facility – by what name is this facility known locality? (e.g., Southwest Sewage Treatment Plant or Oak Hill Mobie Home Park.) Give the street address of the facility. If the facility lacks a mailing address, give an accurate geographic description. (e.g., intersection of Route A and M.) Ower – legal name and address of owner. Continuing Authority – permanent organization which will serve as the continuing authority for the operation, maintenance and modernization of the facility. Give name of person a the facility who can be contacted by the Department if necessary. An outfall is the point(s) at which wastewater is discharged. For storm water this may be the point(s) where water leaves the property. Outfalls should be given in terms of the legal description of the facility. Sufficient information should be submitted and submet with your municipal public works department staff. A combined sever system is one in which the sanitary and storm severs are one pipe. In Missouri, parts of Macon, Moberly, Cape Girandeau, St. Joseph, Kanass City, Sedaila and all of the city of St. Louis are on combined severs systems. To find out information, consult, with your municipal pu	For MO-G permits visit www.dnr.mo.gov/env/wpp/permits/wpcpermits-general.htm.	requirements:		
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 7.00 An outfall is the point(s) at which wastewater is discharged. For storm water this may be the point(s) where water leaves the property. Outfalls should be given in terms of the legal description of the facility. Sufficient information should be submitted so the outfall may be located by Department staff. 7.10 Receiving stream(s) – the name of the stream(s) to which the discharge is directed and any subsequent tributary until a lake or continuous flowing stream is reached. 7.30 A combined sever system is one in which the sanitary and storm severs are one pipe. In Missouri, parts of Macon, Moberly, Cape Girardeau, St. Joseph, Kansas City, Sedalia and all of the city of St. Louis are on combined sever systems. To find out information, consult with your municipal public works department or, if in St. Louis, the St. Louis Metropolitans Bewer District (MSD). If this discharge is to a combined sever system, it is exempt from storm water permitting requirements. You do not need to file this application if it is for storm water discharges only. 7.40 List only your primary Standard Industrial Classification, or SIC, code. The SIC system was devised by the U.S. Office of Management and Budget to cover all economic activities. The primary SIC code is that of the operates the most revenue, or, secondly, employs the most personnel. To find the correct SIC code, contact the Missouri Department of Natural Resources at 573-526-6627 or refer to the following Web sites: www.census.gov/epcd/www/inaicstab.htm or www.osha.gov/pis/mis/sissearch.html. Do not list the North American Industry Classification System (NAICS) code. 7.50 Please list anything stored outside, including wood pallets, empty storage barrels, waste disposal containers (except for a secured Dempsey dumpster), or anything that is a raw material, by-product, or product of your manufacturing activities. If your facility is listed under any of the following SIC code is that of a polystem water fister wasterials	5.00 Operator – name, certificate number of person operating the facility.			
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MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM FORM G – APPLICATION FOR STORMWATER PERMIT (FORM E MUST BE INCLUDED) UNDER THE GENERAL PERMIT: LAND DISTURBANCE (MORA AND MOR100)

Applicants wishing to obtain a MORA permit must apply using the ePermitting system, unless prior approval has been granted by the department. To request approval please call the Department of Natural Resources' Water Protection Program at 573-751-1300. For more information, or to use ePermitting, visit dnr.mo.gov/env/wpp/epermit/help.htm.

NAME OF DEVELOPMENT*
Current River SP, New Development - Facility 3 WWTP
PHASE (INDICATE PHASE I, II, ETC., IF APPLICABLE)
NATURE OF CONSTRUCTION ACTIVITY
State Park - installation of sanitary sewer collection and treatment system
PHYSICAL LOCATION OF DEVELOPMENT (ADDRESS, IF ASSIGNED)** County Road 19-250, Salem, MO 65560
DATE CONSTRUCTION IS TO BEGIN
2/24/15
Total area of site: 408.00 acres
Total area of land to be disturbed: 2.95 acres
Has a Stormwater Pollution Prevention Plan (SWPPP) been developed for this site? (This plan must be developed in accordance with requirements and guidelines specified within the general permit for stormwater discharges from land disturbance activities. The application will be considered incomplete if the Stormwater Pollution Prevention Plan has not been developed. Do not enclose a copy of the plan. A copy of the Stormwater Pollution Prevention Plan may be requested by the department at any time.)
Is any part of the area that is being disturbed discharging to a jurisdictional water of the United States? ☐ Yes ☑ No
If yes, have you received a Clean Water Act Section 404 permit for this site from the U.S. Army Corps of Engineers?
There may be an established Local Authority Erosion Control Plan in the city or county where land disturbance activities covered under this general permit will occur. Please contact your local authority to determine if any requirements exist.
I certify I am familiar with the information contained in the application, that to the best of my knowledge and belief such information is true, complete and accurate, and if granted this permit, I agree to abide by the Missouri Clean Water Law and all rules, regulations, orders and decisions, subject to any legitimate appeal available to an applicant under the Missouri Clean Water Law of the Missouri Clean Water Commission.
NAME AND OFFICIAL TITLE Chris Grocker, Director of Planning & Development
SIGNATURE DATE SIGNED DATE SIGNED -14-2015
Note The form must be submitted with the sermit fee (\$300), map and Form E – Application for a General Permit (780-0795). The form is available at dnr.mo.gov/forms/780-0795.pdf.
A map of the department's regional offices is available on the department's website at <u>www.dnr.mo.gov/regions/regions.htm</u> .
*In the case of an MOR100 permit, the name of the development should be the name of the entity applying for the permit.
**If applying for an MOR100 permit, use the company office address.
MO 780-1408 (01-14)



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM, WATER POLLUTION BRANCH
(SEE MAP FOR APPROPRIATE REGIONAL OFFICE)
FORM I - PERMIT APPLICATION FOR CONSTRUCTION AND
OPERATION OF WASTEWATER IRRIGATION SYSTEMS

FOR AGENCY USE ONLY

PERMIT NUMBER

MO -DATE RECEIVED

INSTRUCTIONS: The following forms must be submitted with Form I: FORM B for domestic wastewater. Submit FORMS E and G for land disturbance permit if construction areas total one acre or more.

<u> </u>	
1.00	
1	Facility Name
Cu	rent River SP, New Development - Facility 3 WWTP
1.20	Application for. 🛛 🛛 Construction Permit (attach Engineering report, Plans and Specifications per 10 CSR 20-8)
	Operating Permit (if no construction permit, attach engineering documents)
	Date Irrigation System Began Operation:
	Operating Permit Renewal
1.30	Type of wastewater to be irrigated: Domestic Municipal 🖉 State/National Park Deasonal business
	Municipal with Pretreatment Program or Significant Industrial Users
	SIC Codes (list all that apply, in order of importance)
1.40	Months when the business or enterprise will operate or generate wastewater:
	☑ 12 months per year
1.50	This system is designed for:
	✓ No-discharge ☐ Partial irrigation when feasible and discharge rest of time.
	Irrigation during recreation season (April - October) and discharge during November – March.
	□ Other (explain)
1.60	List the Facility outfalls which will be applicable to the irrigation system from outfalls listed on Form B.
1.00	Outfall Nos
2.00	STORAGE BASINS
2.10	Number of storage basins: 0 Type of basin: Steel Concrete Fiberglass Earthen
	Earthen with membrane liner
2.20	Storage basin dimensions at inside top of berm (feet): Report freeboard as feet from top of berm to emergency spillway or
	overflow pipe.
	(Complete Attachment A: Profile Sketch)
	Basin #1: Length Width Depth Freeboard Berm Width % Slope
	Basin #2: Length Width Depth Freeboard Berm Width % Slope
2.30	Storage Basin operating levels (report as feet below emergency overflow level)
2.00	Basin #1: Maximum water level ft. Minimum operating water level ft.
	Basin #2: Maximum water level ft. Minimum operating water level ft.
2.40	Depth of sludge in lagoons and storage basins ft.
	Total sludge stored dry tons cu. ft.
3.00	LAND APPLICATION SYSTEM
	Number of irrigation sites 1 Total Acres 1.55 Maximum % field slopes 15%
0.10	Location: 14 ,
	Location: $4, -4, -4, -4, -4, -4, -4, -4, -4, -4, -$
MO 780	-1688 (6-04) • • • • • • • • • • • • • • • • • • •

F				
3.11	Type of vegetation: Grass hay Pasture Timber	Row crops		
3.20	3.20 Wastewater flow (dry weather) gallons/day:			
	Average annual: 9,019 Seasonal Off-season			
	Months of seasonal flow:			
	Human Population Equivalent: 90			
3.21	Land Application rate per acre (design flow including 1 in 10 year storm water flo	ows):		
	Design:inches/yearinches/hourinches/			
	Actual: inches/year inches/hour inches/			
	Total Imigation per year (gallons): Design Actual			
	Actual months used for Irrigation (check):	⊿ May ⊿Jun ⊿Jul ⊿Aug ⊿ Sep		
3.22	Land Application Rate is based on:			
	 ✓ Hydraulic Loading 			
	Other (describe)			
3.30	Equipment type: Sprinklers Gated pipe Center pivot Trav	veling gun 2 Other (describe) PP		
0.00	Equipment Flow Capacity: 50 Gallons per hour 8760 Total hours of oper			
3.40		Vastewater disinfection prior to irrigation		
	☑ Other (describe): Subsurface discharge			
3.50	Separation distance (in feet) from the outside edge of the wetted irrigation area t	o down gradient features:		
	Permanent flowing streamLosing Stream Intermittent	-		
	200 Property boundary 200 Dwellings 500 Water supply well	Other (describe)		
3.60	SOILS INFORMATION: Use information from the County Soil Survey, NR			
	Soil Series Name Depth of bedrock > 4 Feet Depth of water	er table <u>> 4</u> Feet		
	Soil Infiltration rate in inches/hour (in/hr) for most restrictive layer within the follow			
	0.6 In/hr for 0-12 in soil depth 1.0 In/hr for 12-24 inch soil depth			
3.70	Include a recent Geologic Report by the Department's Geological Survey and Reconstruction permit.	esource Assessment Division with your		
3.80	Attach a current copy of the Operation and Maintenance (O&M) Plan for the irrigation	ation system. Date of O&M Plan:		
3.81 Attach a site map showing topography, storage basins, irrigation sites, property boundary, streams, wells, roads, dwellings and other pertinent features.				
3.82	Attach a facility sketch showing treatment units, storage basins, pipelines, irrigati features.	on equipment, application sites and other		
4.00	CERTIFICATION			
	ify under penalty of law that I have personally examined and am familiar with the i	information submitted in this application and all		
	attachments and that based on my inquiry of those individuals immediately respo	onsible for obtaining this information, I believe		
	that the information is true, accurate and complete. I am aware that there are sig information including the possibility of fine or imprisonment.	nificant penalties for submitting false		
CONS	ULTING ENGINEER – Name, Official Title and Engineering Firm (TYPE OR PRINT)	TELEPHONE NUMBER (area code and number)		
Kevin	Hannel, Engineering Manager, Fafpsworth Group	(309) 663-8435		
SIGNA	тир - лл V	DATE SIGNED		
	Kevin VI Hannel	1/13/15		
	R OR ADTHORIZED REPRESENTATIVE - Name and Official Title (TYPE OR PRINT)	TELEPHONE NUMBER (area code and number)		
	Crocker, Director of Planning & Development	(573) 522-6390		
SIGNA	/ / / / / / / / / / / / / / / / / / /	DATE SIGNED -14-2015		
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MO 780-1686 (6-04)