STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

The Missouri Department of Natural Resources hereby issues a permit to:

City of Licking Licking Northwest WWTP Hwy 63 and Shafer Road Licking, MO 65542

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (department).

As the department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

September 18, 2024 Effective Date

September 17, 2026 Expiration Date

John Hoke, Director Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Improvements to an existing Oxidation Ditch wastewater treatment facility. Replacement of facility headworks to include a new headworks building, macerator-grinder, fine screen with a washer/compactor, and influent flow meter. A reconstructed flow splitter with adjustable flow control gates, located prior to the final clarifiers. Replacement of tertiary cloth disc filters. New emergency standby generator. Replacement and upgrade of laboratory building. Together with all the necessary appurtenances to make a complete and usable wastewater system to treat the waste from a population equivalent of 7,338 with an average daily discharge of 430,000 gallons. The design flow will remain the same and the existing outfall will remain. Discharge is to Spring Creek in Sec. 01, T32N, R09W, Texas County.

A closure plan will need to be submitted to the Southeast Regional Office for review and approval prior to any closure activities of the individual components such as the existing influent screening and clarifier flow splitter.

This project will also include general site work appropriate to the scope and purpose of the project and all necessary appurtenances to make a complete and usable wastewater treatment facility.

II. COST ANALYSIS FOR COMPLIANCE

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

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

III. CONSTRUCTION PERMIT CONDITIONS

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.

- 2. All construction shall be consistent with plans and specifications signed and sealed by Kenneth A. Campbell, P.E., with Archer-Elgin Engineering and Surveying and as described in this permit.
- 3. The department must be contacted in writing prior to making any changes to the plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(11).
- 4. State and federal law does not permit bypassing of raw wastewater; therefore, steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the department's Southeast Regional Office per 10 CSR 20-7.015(9)(G).
- 5. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the department's ePermitting system available online at <u>https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem</u>. See <u>https://dnr.mo.gov/data-e-services/water/electronic-permitting-epermitting</u> for more information.
- 6. A United States Army Corps of Engineers (USACE) Clean Water Act Section 404 Department of the Army permit and a Section 401 Water Quality Certification issued by the department may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied or notification is provided that no Section 404 permit is required by the USACE. You must contact your local USACE district since they determine what waters are jurisdictional and which permitting requirements may apply. You may call the department's Water Protection Program, Operating Permits Section at 573-522-4502 for more information. See <u>https://dnr.mo.gov/water/businessindustry-other-entities/permits-certification-engineering-fees/section-401-water-quality</u> for more information.
- 7. In accordance with 10 CSR 20-6.010(12), a closure plan shall be submitted to the department's Southeast Regional Office for review and approval of any permitted wastewater treatment system being replaced. The closure plan must meet the requirements outlined in Standard Conditions Part III of the Missouri State Operating Permit No. MO-0040118. Closure shall not commence until the submitted closure plan is approved by the department.
- 8. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.

- Flood protection shall apply to new construction and to existing facilities undergoing major modification. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one 100- year flood elevation. 10 CSR 20-8.140 (2) (B)
- Unless another distance is determined by the Missouri Geological Survey or by the department's Public Drinking Water Branch, the minimum distance between wastewater treatment facilities and all potable water sources shall be at least 300 feet. 10 CSR 20-8.140 (2) (C) 1.
- Facilities shall be readily accessible by authorized personnel from a public right–ofway at all times. 10 CSR 20-8.140 (2) (D)
- All wastewater treatment facilities shall be provided with an alternate source of electric power or pumping capability to allow continuity of operation during power failures. 10 CSR 20-8.140 (7) (A) 1.
- Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 *National Electric Code (NEC)* (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140 (7) (B)
- An audiovisual alarm or a more advanced alert system, with a self-contained power supply, capable of monitoring the condition of equipment whose failure could result in a violation of the operating permit, shall be provided for all wastewater treatment facilities. 10 CSR 20-8.140 (7) (C)
- No piping or other connections shall exist in any part of the wastewater treatment facility that might cause the contamination of a potable water supply. 10 CSR 20-8.140 (7) (D) 1.
- Where a potable water supply is to be used for any purpose in a wastewater treatment facility other than direct connections, a break tank, pressure pump, and pressure tank or a reduced pressure backflow preventer consistent with the department's Public Drinking Water Branch shall be provided. 10 CSR 20-8.140 (7) (D) 3. A.
- For indirect connections, a sign shall be permanently posted at every hose bib, faucet, hydrant, or sill cock located on the water system beyond the break tank or backflow preventer to indicate that the water is not safe for drinking. 10 CSR 20-8.140 (7) (D) 3. B.
- Where a separate non-potable water supply is to be provided, a break tank will not be necessary, but all system outlets shall be posted with a permanent sign indicating the water is not safe for drinking. 10 CSR 20-8.140 (7) (D) 4.

- Isolate all wastewater treatment components installed in a building where other equipment or offices are located from the rest of the building by an air-tight partition, provide separate outside entrances, and provide separate and independent fresh air supply. 10 CSR 20-8.140 (7) (G)
- Adequate provisions shall be made to effectively protect facility personnel and visitors from hazards. The following shall be provided to fulfill the particular needs of each wastewater treatment facility:
 - Fencing. Enclose the facility site with a fence designed to discourage the entrance of unauthorized persons and animals; 10 CSR 20-8.140 (8) (A)
 - Gratings over appropriate areas of treatment units where access for maintenance is necessary; 10 CSR 20-8.140 (8) (B)
 - First aid equipment; 10 CSR 20-8.140 (8) (C)
 - Posted "No Smoking" signs in hazardous areas; 10 CSR 20-8.140 (8) (D)
 - Appropriate personal protective equipment (PPE); 10 CSR 20-8.140 (8) (E)
 - Portable blower and hose sufficient to ventilate accessed confined spaces; 10 CSR 20-8.140 (8) (F)
 - 10 CSR 20-8.140 (8) (G) Portable lighting equipment complying with NEC requirements. See subsection (7)(B) of this rule;
 - 10 CSR 20-8.140 (8) (H) Gas detectors listed and labeled for use in NEC Class I, Division 1, Group D locations. See subsection (7)(B) of this rule;
 - Appropriately-placed warning signs for slippery areas, non-potable water fixtures (see subparagraph (7)(D)3.B. of this rule), low head clearance areas, open service manholes, hazardous chemical storage areas, flammable fuel storage areas, high noise areas, etc.; 10 CSR 20-8.140 (8) (I)
 - Ventilation shall include the following:
 - Isolate all pumping stations and wastewater treatment components installed in a building where other equipment or offices are located from the rest of the building by an air-tight partition, provide separate outside entrances, and provide separate and independent fresh air supply; 10 CSR 20-8.140 (8) (J) 1.
 - Force fresh air into enclosed screening device areas or open pits more than four feet deep. 10 CSR 20-8.140 (8) (J) 2.
 - Dampers are not to be used on exhaust or fresh air ducts. Avoid the use of fine screens or other obstructions on exhaust or fresh air ducts to prevent clogging; 10 CSR 20-8.140 (8) (J) 3.
 - Where continuous ventilation is needed (e.g., housed facilities), provide at least 12 complete air changes per hour. Where continuous ventilation would cause excessive heat loss, provide intermittent ventilation of at least 30 complete air changes per hour when facility personnel enter the area. Base air change demands on 100 percent fresh air; 10 CSR 20-8.140 (8) (J) 4.
 - Electrical controls. Mark and conveniently locate switches for operation of ventilation equipment outside of the wet well or building. Interconnect all intermittently operated ventilation equipment with the respective wet well, dry well, or building lighting system. The manual lighting/ventilation switch is expected to override the automatic controls. For a two speed

ventilation system with automatic switch over where gas detection equipment is installed, increase the ventilation rate automatically in response to the detection of hazardous concentrations of gases or vapors; 10 CSR 20-8.140 (8) (J) 5.

- Fabricate the fan wheel from non-sparking material. Provide automatic heating and dehumidification equipment in all dry wells and buildings. 10 CSR 20-8.140 (8) (J) 6.
- Explosion-proof electrical equipment, non-sparking tools, gas detectors, and similar devices, in work areas where hazardous conditions may exist, such as digester vaults and other locations where potentially explosive atmospheres of flammable gas or vapor with air may accumulate. 10 CSR 20-8.140 (8) (K)
- Provisions for local lockout/tagout on stop motor controls and other devices; 10 CSR 20-8.140 (8) (L)
- Provisions for an arc flash hazard analysis and determination of the flash protection boundary distance and type of PPE to reduce exposure to major electrical hazards shall be in accordance with NFPA 70E *Standard for Electrical Safety in the Workplace* (2018 Edition), as approved and published August 21, 2017. 10 CSR 20-8.140 (8) (M)
- All wastewater treatment facilities must have a screening device, comminutor, or septic tank for the purpose of removing debris and nuisance materials from the influent wastewater. 10 CSR 20-8.150 (2)
- All screening devices and screening storage areas shall be protected from freezing. 10 CSR 20-8.150 (4) (A) 1.
- Provisions shall be made for isolating or removing screening devices from their location for servicing. 10 CSR 20-8.150 (4) (A) 2.
- Manually cleaned screen channels shall be protected by guard railings and deck gratings with adequate provisions for removal or opening to facilitate raking. 10 CSR 20-8.150 (4) (A) 3. A. (I)
- Mechanically cleaned screen channels shall be protected by guard railings and deck gratings. 10 CSR 20-8.150 (4) (A) 3. A. (II)
- Mechanical screening equipment shall have adequate removal enclosures to protect facility personnel against accidental contact with moving parts and to prevent dripping in multi-level installations. 10 CSR 20-8.150 (4) (A) 3. B. (I)
- A positive means of locking out each mechanical screening device shall be provided. 10 CSR 20-8.150 (4) (A) 3. B. (II)
- An emergency stop button with an automatic reverse function shall be located in close proximity to the mechanical screening device. 10 CSR 20-8.150 (4) (A) 3. B. (III)

- Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 *National Electric Code (NEC)* (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140 (7) (B)
- Where two or more mechanically cleaned bar screens are used, the design shall provide for taking the largest unit out-of-service without sacrificing the capability to handle the average design flow. Where only one mechanically cleaned screen is used, it shall be sized to handle the design peak instantaneous flow. 10 CSR 20-8.150 (4) (B)
- Provisions for location and safety of comminutors shall be in accordance with screening devices,
 - Manually cleaned channels shall be protected by guard railings and deck gratings with adequate provisions for removal or opening to facilitate raking. 10 CSR 20-8.150 (4) (A) 3. A. (I)
 - Mechanically cleaned channels shall be protected by guard railings and deck gratings. 10 CSR 20-8.150 (4) (A) 3. A. (II)
 - Mechanical equipment shall have adequate removal enclosures to protect facility personnel against accidental contact with moving parts and to prevent dripping in multi-level installations. 10 CSR 20-8.150 (4) (A) 3. B. (I)
 - A positive means of locking out each mechanical device shall be provided. 10 CSR 20-8.150 (4) (A) 3. B. (II)
 - An emergency stop button with an automatic reverse function shall be located in close proximity to the mechanical device. 10 CSR 20-8.150 (4) (A) 3. B. (III)
 - Electrical systems and components in raw wastewater or in enclosed or partially enclosed spaces where hazardous concentrations of flammable gases or vapors that are normally present, shall comply with the NFPA 70 National Electric Code (NEC) (2017 Edition), as approved and published August 24, 2016, requirements for Class I, Division 1, Group D locations. 10 CSR 20-8.140 (7) (B)
- Filtration systems shall have:
 - Convenient access to all components and the media surface for inspection and maintenance without taking other units out of service; 10 CSR 20-8.210 (3) (B) 1. A.
 - Enclosed controls and heating and ventilation equipment to control humidity; 10 CSR 20-8.210 (3) (B) 1. B. and
 - The capacity to process the design average flow to the filters with the largest unit out of service utilizing a minimum of two units. 10 CSR 20-8.210 (3) (B) 1. C.

- The media for cloth/disc filters shall:
 - Follow the manufacturer's recommendations; 10 CSR 20-8.210 (3) (E) 1. B. and
 - Be chemical-resistant if the filter will be exposed to chemicals, such as chlorine or disinfectants. 10 CSR 20-8.210 (3) (E) 1. C.
- Filtration Rates and Hydraulics for cloth/disc filters shall be able to treat the design flow rate with one filter unit in backwash mode. 10 CSR 20-8.210 (3) (E) 2. B.
- 9. Upon completion of construction:
 - A. The City of Licking will become the continuing authority for operation and maintenance of these facilities;
 - B. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications; and
 - C. Submit the Statement of Work Completed form to the department in accordance with 10 CSR 20-6.010(5)(N) (<u>https://dnr.mo.gov/document-search/wastewaterconstruction-statement-work-completed-mo-780-2155</u>). The Operating Permit does not need to be modified to reflect construction covered by this construction permit.

IV. <u>REVIEW SUMMARY</u>

1. CONSTRUCTION PURPOSE

Update facility equipment and correct flow splitting, for better operating reliability with ability to consistently meet current discharge limits. Also includes new laboratory.

2. FACILITY DESCRIPTION

The existing facility consists of headworks with a comminutor, and screening followed by an intermediate pump station, an oxidation ditch with two secondary clarifiers, a tertiary cloth disc filter, ultraviolet disinfection, and cascade post aeration. Sludge is processed in an aerobic sludge digester, and an aerated sludge holding tank, sludge thickening is also available with a bag storage system, biosolids are land applied.

Construction is to update facility equipment. Including new headworks building with new macerator-grinder and fine screen with washer/compactor and influent flow meter. Reconstruction of flow splitter prior to clarifiers. Replacement of tertiary cloth disc filters. New emergency standby generator. Replacement and upgrade of laboratory building. The design flow and outfall location will remain the same. The Licking Northwest WWTP is located at Hwy 63 and Shafer Road, City of Licking, in Texas County, Missouri. The facility has a design average flow of 430,000 gpd and serves an organic population equivalent of approximately 7338 people.

3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is for improvements to the headworks of the treatment plant. While the improvements will significantly improve operation and effectiveness of the treatment plant there are no changes to compliance parameters.

4. <u>REVIEW of MAJOR TREATMENT DESIGN CRITERIA</u>

- In the existing treatment facility influent passes through headworks which include a macerator-grinder and screening; flow is then pumped to an oxidation ditch; then flow is split and directed to two clarifiers; flow rejoins and passes through a tertiary cloth disc filter then UV disinfection, flow cascades down a staircase for post aeration prior to discharge. Sludge is processed in an aerobic sludge digester and an aerated sludge holding tank, it can be further thickened with a bag storage system; and is then land applied. Facility has a design flow of 430,000 gpd.
- This construction permit covers Phase 1 improvements to include replacement of headworks, including macerator-grinder, and fine screening, installation of an influent flow meter, reconstruction of the flow splitter, replacement of the tertiary cloth disc filters; also includes replacement of emergency generator, electrical equipment improvements, and construction of a new laboratory. Design flow and outfall location to remain unchanged.
 - A future Phase 2 project is planned to replace internal clarifier mechanisms, replace UV disinfection, and new SCADA system.

Construction will cover the following items:

- Components are designed for a design average flow of 430,000 gpd and a peak flow of 2.69 MGD.
- Comminutor Comminutors cut and shred coarse solid organic and inorganic materials into smaller sizes but does not remove them from the wastewater stream. One in-channel macerator-grinder unit with a minimum capacity of 2.69 MGD, to be located in a 30-inch wide channel, and have a nominal height of 24-inches, utilizes a 5 HP motor.
- Screening Installation of screening devices removes nuisance inorganic materials from raw wastewater.
 - Mechanical Fine Screen One mechanically-cleaned in-channel fine screen with maximum perforated plate openings of 6-mm. The screening devices

shall be capable of treating a peak hourly flow of 2.69 MGD. The addition of a washer/compactor and screenings conveyor will mitigate the increased volume of screenings captured by washing, dewatering, and compacting the screenings prior to disposal. The screening structure is followed by influent flow measurement.

- Coarse bar screen for occasional use when flow is routed around the comminutor and mechanical fine screen. The manual coarse bar screen will have clear bar spacings of 1-inch and be positioned at an angle of 60 degrees from the horizontal to allow for manual raking of the screen. The coarse bar screen is followed by influent flow measurement.
- Flow Measurement Installation of accurate flow measurement devices will give the treatment facility a means of improved data analysis. Project includes installation of an influent flow meter following screening.
 - Parshall Flume A 9-inch throat influent parshall flume with ultrasonic flow sensor shall measure the raw influent wastewater following screening.
- Flow splitter splits flow after oxidation ditch and prior to the two clarifiers. Flow splitter will be reconstructed to include two downward opening flow control gates. Will allow for flow splitting at adjustable rates and allows for removal of a clarifier from service. Each gate is 2.5 feet wide and will be operated by a manual handwheel.
- Cloth Disc Tertiary Filtration Installation of two cloth disc tertiary filtration units. Each unit is capable of treating an average design flow of 430,000 gpd. With one unit out-of-service the disc filters are capable of treating a peak flow of 2.69 MGD at a maximum flux rate of 6.5 gpm/ft². Each unit has six cloth disc assemblies (or approved equal) with a minimum total wetted filtration area of 322.5 ft². The media is constructed with 30 micron openings. Each disc filter unit shall be supplied with a backwash system. Each backwash system shall consist of duplicate pumps capable of pumping 69 gpm with a 10 HP motor; or approved equal. Disc filtration follows clarification prior to disinfection.
- Emergency Power A standby diesel generator and automatic transfer switch will be provided to operate the treatment facility in event of power failure. Generator is preliminarily sized at 550 kW.

5. <u>OPERATING PERMIT</u>

These construction activities do not change the effluent limits, conditions or facility description of the current operating permit. Operating permit MO-0040118 does not need a modification to reflect the construction activities. Submit the Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(N).

Operating permit MO-0040118 will be expiring on April 30, 2027. A renewal application must be filed before October 30, 2026, regardless of the status of these construction activities. If you have questions on completing the renewal application, please contact the NPDES permitting section at 573-522-4502.

V. NOTICE OF RIGHT TO APPEAL

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to Section 621.250 RSMo. To appeal, you must file a petition with the AHC within 30 days after the date this decision was mailed or the date it was delivered, whichever date was earlier. If any such petition is sent by registered mail or certified mail, it will be deemed filed on the date it is mailed; if it is sent by any method other than registered mail or certified mail, it will be deemed filed on the date it is received by the AHC. Any appeal should be directed to:

Administrative Hearing Commission U.S. Post Office Building, Third Floor 131 West High Street, P.O. Box 1557 Jefferson City, MO 65102-1557 Phone: 573-751-2422 Fax: 573-751-5018 Website: <u>https://ahc.mo.gov</u>

Andrew Appelbaum, P.E. Engineering Section andy.appelbaum@dnr.mo.gov Improvements Phase 1 Licking Northwest WWTP, MO-0040118 Appendix Page 1

Permit No. CP0002468

APPENDIX Process Flow Diagram





FOR DEPARTMENT USE ONLY APP NO. CP NO.

FEE RECEIVED

CHECK NO.

DATE RECEIVED

APPLICATION OVERVIEW
The Application for Construction Permit – Wastewater Treatment Facility form has been developed in a modular format and consists of Part A and B. All applicants must complete Part A. Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.
PART A – BASIC INFORMATION
1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are answered NO, this application may be considered incomplete and returned.)
1.1 Is this a Federal/State funded project? YES N/A Funding Agency: Project #:
 1.2 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review? YES Date of Approval: N/A
1.3 Has the department approved the proposed project's facility plan*?
 1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan* for wastewater treatment facilities included with this application? YES NO Exempt because
 1.5 Is a copy of the appropriate plans* and specifications* included with this application? YES Denote which form is submitted: Hard copy Electronic copy (See instructions.)
1.6 Is a summary of design* included with this application? \Box YES \Box NO
 1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the department? YES Date of submittal: Enclosed is the appropriate operating permit application and fee submittal. Denote which form: A B B2 N/A: However, In the event the department believes that my operating permit requires revision to permit limitation such as changing equivalent to secondary limits to secondary limits or adding total residual chlorine limits, please share a draft copy prior to public notice? YES NO
1.8 Is the facility currently under enforcement with the department or the Environmental Protection Agency?
1.9 Is the appropriate fee or JetPay confirmation included with this application? YES NO See Section 7.0
* Must be affixed with a Missouri registered professional engineer's seal, signature and date.
2.0 PROJECT INFORMATION
2.1 NAME OF PROJECT 2.2 ESTIMATED PROJECT CONSTRUCTION COST \$
2.3 PROJECT DESCRIPTION
2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION
2.5 DESIGN INFORMATION
A. Current population:; Design population:
B. Actual Flow: gpd; Design Average Flow: gpd; Actual Peak Daily Flow: gpd; Design Maximum Daily Flow: gpd; Design Wet Weather Event:
2.6 ADDITIONAL INFORMATION
A. Is a topographic map attached?
B. Is a process flow diagram attached? U YES INO
MO 780-2189 (02-19) Page 1 of 3

AME		TELEPHONE NUMBER WITH AREA CODE		E-MAIL ADDRESS		
Licking Northwest WWTP		573-674-2521		lickingcity@h	otmail.com	
ADDRESS (PHYSICAL)	CITY		STATE	ZIP CODE	ZIP CODE COUNTY	
	Licking		MO	65542	Texas	
Wastewater Treatment Facility: Mo	- 0040118 (Outfa	all 1 Of 1)	and state to state which		
3.1 Legal Description: 1/4.	SE 1/4 NE	1/4: Sec. 01	T 32N R 9M	1		
(Use additional pages if construction	n of more than one	outfall is proposed.)	1 <u>0211</u> , I <u>1</u> 011			
3.2 LITM Coordinates Easting (V):	600371 Northi	A 4151507				
For Universal Transverse Mercator	(UTM) Zone 15 Nor	th referenced to No	oth American Datum	1002 (140000)		
2.2 Nome of social in the	Spring Crock		ann American Dalum	1903 (IVAD03)		
3.3 Name of receiving streams:	Spring Creek					
4.0 PROJECT OWNER						
NAME		TELEPHONE NUMBER WITH AREA CODE		E-MAIL ADDRESS		
City of Licking		573-674-2521		lickingcitv@hotmail.com		
ADDRESS	CITY		STATE	ZIP CODE		
P.O. Box 89	Licking		MO	65542	65542	
5.0 CONTINUING AUTHORITY: A	continuing author	rity is a company.	business, entity o	r person(s) that will	ll be operating th	
and/or ensuring compliance with the	permit requireme	ents.	, cristy o	- paroon(o) mar wi	. So operating th	
NAME	Transactor FT	TELEPHONE NUMBE	ER WITH AREA CODE	E-MAIL ADDRESS		
City of Licking	a magazine Li	573-674-2521		lickingcity@hc	otmail.com	
ADDRESS	CITY	fast). Report loss	STATE	ZIP CODE	Internet section	
F.U. BOX 89	Licking		MO	65542		
5.1 A letter from the continuing auth	ority, if different th	nan the owner, is	included with this	application		
5.2 COMPLETE THE FOLLOWING IF THE CONTINU	JING AUTHORITY IS A MI	SSOURI PUBLIC SERVIC	CE COMMISSION REGULA	TED ENTITY.		
A. Is a copy of the certificate of con	venience and nec	essity included wi	th this application			
, a lo a copy of the certificate of con	venience and nec	essity included wi	in this application	YES UI	NO	
 A. Is a copy of the as-filed restriction B. Is a copy of the as-filed warranty wastewater treatment facility to the copy of the as-filed legal instruction of the the second second	ns and covenants deed, quitclaim de e association incl rument (typically t	ROPERTY OWNERS ASS included with this eed or other legal uded with this app he plat) that provi	OCIATION. application?	YES NO transfers ownershi S NO n with valid easem	ip of the land for nents for all sewe	
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PART B – LAND APPLICATION ONLY (Submit only if the proposed construction project includes land application of wastewater.)
8.0 FACILITY INFORMATION
8.1 Type of wastewater to be irrigated: Domestic State/National Park Seasonal business Municipal Municipal with a pretreatment program or significant industrial users Other (explain)
8.2 Months when the business or enterprise will operate or generate wastewater:
 8.3 This system is designed for: No-discharge. Partial irrigation when feasible and discharge rest of time. Irrigation during recreational season, April – October, and discharge during November – March. Other (explain)
9.0 STORAGE BASINS
9.1 Number of storage basins: (Use additional pages if greater than three basins.)
9.2 Type of basins: Steel Concrete Fiberglass Earthen Earthen with membrane liner
9.3 Storage basin dimensions at inside top of berm (feet). Report freeboard as feet from top of berm to emergency spillway or overflow pipe. Basin #1: Length Width Depth Freeboard Depth Safety % Slope Basin #2: Length Width Depth Freeboard Depth Safety % Slope Basin #3: Length Width Depth Freeboard Depth Safety % Slope
9.4 Storage Basin operating levels (report as feet below emergency overflow level). Basin #1: Maximum operating water levelft Basin #2: Maximum operating water levelft Basin #3: Maximum operating water levelft
9.5 Design depth of sludge in storage basins. Basin #1: ft Basin #2: ft Basin #3: ft
9.6 Existing sludge depth, if the basins are currently in operation. Basin #1: ft Basin #2: ft Basin #3: ft
9.7 Total design sludge storage: dry tons and cubic feet
10.0 LAND APPLICATION SYSTEM
10.1 Number of irrigation sites Total Acres Maximum % field slopes Location: ¼,¼,¼,SecTRCountyAcres Location: ¼,¼,¼,SecTRCountyAcres Location: ¼,¼,¼,SecTRCountyAcres Location: ¼,¼,¼,SecTRCountyAcres Use additional pages if greater than three irrigation sites.)
10.2 Type of vegetation: Grass hay Pasture Timber Row crops
10.3 Wastewater flow (dry weather) gallons per day: Average annual Seasonal Off-season
10.4 Land application rate (design flow including 1-in-10 year storm water flows): Design:
10.5 Total irrigation per year (gallons): Design: gal Actual: gal
10.6 Actual months used for irrigation (check all that apply):
10.7 Land application rate is based on: ☐ Hydraulic Loading ☐ Other (describe) ☐ Nutrient Management Plan (N&P) If N&P is selected, is the plan included? ☐ YES ☐ NO MO 780-2189 (02-18)