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 Brunswick The Honorable Diane Rice Mayor 115 West Broadway Street Brunswick, MO 65236

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.

July 2, 2024 Effective Date

July 1, 2026 Expiration Date

John Hoke, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Construction includes improving the existing four pump stations in the collection system of the City of Brunswick; extending the existing force main at the Brunswick wastewater treatment facility (WWTF) to new lagoon influent structure at Lagoon Cell #1; installing an influent structure with influent pipe into Lagoon Cell #1; adding baffle curtains in Lagoon Cell #1 and Cell #2; installing floating cover over Lagoon Cell #3; improving the existing chlorination and de-chlorination systems; and installing a new effluent flow measurement.

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.
- All construction shall be consistent with plans and specifications signed and sealed by Ellen E. Woltjen, P.E., with McClure Engineering Co. 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 Northeast 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 https://dnr.mo.gov/data-e-services/missouri-gateway-environmental-management-mogem. See https://dnr.mo.gov/data-e-services/water/electronic-permitting 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/business-industry-other-entities/permitscertification-engineering-fees/section-401-water-quality</u> for more information.
- 7. 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 100-year flood elevation. 10 CSR 20-8.140(2)(B). 10 CSR 20-8.130(2)(A)
- Facilities shall be readily accessible by authorized personnel from a public right–of-way at all times. 10 CSR 20-8.140(2)(D). 10 CSR 20-8.130(2)(B)
- Alarm systems with an uninterrupted power source shall be provided for pumping stations. 10 CSR 20-8.130(6)
- Lagoon berms shall be constructed of relatively impervious material and compacted to at least 95 percent maximum dry density test method to form a stable structure. 10 CSR 20-8.200(4)(A)1.
- Unlined corrugated metal pipe shall not be used for influent lines due to corrosion problems. 10 CSR 20-8.200(4)(D)1.
- A manhole shall be installed with its invert at least six inches above the maximum operating level of the lagoon, prior to the entrance into the primary cell, and provide sufficient hydraulic head without surcharging the manhole. 10 CSR 20-8.200(4)(D)2.

- The influent line(s) shall be located along the bottom of the lagoon so that the top of the pipe is just below the average elevation of the lagoon seal; however, there shall be an adequate seal below the pipe. 10 CSR 20-8.200(4)(D)3.
- Lagoon covers shall be constructed with a minimum thickness of two mil or meet the manufacturer's recommendations, and be ultraviolet and weather resistant. 10 CSR 20-8.200(5)(A)
- The lagoon cover shall include a stormwater removal system that conveys collected precipitation to sumps or includes drainage areas in the membrane within the acceptable leakage rate to allow stormwater to drain into the lagoon. 10 CSR 20-8.200(5)(C).
- 8. Upon completion of construction:
 - A. Submit an electronic copy of the as builts if the project was not constructed in accordance with previously submitted plans and specifications; and
 - B. 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/wastewater-construction-statement-work-completed-mo-780-2155</u>) and request the operating permit modification be issued. No modification fee is required.

IV. <u>REVIEW SUMMARY</u>

1. CONSTRUCTION PURPOSE

This project is to improve the city pump stations for better operability and make improvements to the existing treatment facility for better effluent quality.

2. FACILITY DESCRIPTION

The City of Brunswick owns and operates Brunswick WWTF and its associated collection system. The WWTF consists of a three-cell lagoon with chlorination and dechlorination systems. The WWTF is located near the intersection of Meyer Road and Small Street in Brunswick, Chariton County, Missouri. The WWTF has a design average flow of 104,000 gallons per day (gpd) and serves a population equivalent of approximately 1,245 people.

Construction includes improving the existing four pump stations; extending the existing force main at the wastewater treatment facility (WWTF) to new lagoon influent structure at Cell #1; installing an influent structure with influent pipe into Cell #1; adding baffle curtains in Cell #1 and Cell #2; installing floating cover over Cell #3; improving the existing chlorination and de-chlorination systems; and installing a new effluent flow meter.

3. <u>COMPLIANCE PARAMETERS</u>

The proposed project is required to meet final effluent limits as established in Operating Permit MO-0032557.

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

Construction will cover the following items:

- Pump Station Improvements The improvements include installing a new auto dialer system at each of the four existing pump stations (Pump Stations #1, #2, #3, and #4); extending the wet wells and valve vaults of the Pump Station #1 and Pump Station #3 to an elevation above the 100-year flood elevation; removing the existing wet well buildings at the Pump Stations #1 and #3; adding safety and accessibility improvements at Pump Station #4; and installing other necessary appurtenances to provide complete and functioning pump stations.
- Influent Structure The existing 8-inch forcemain from Pump Station #3 will be extended approximately 900 linear feet of 10-inch SDR 21 PVC pipe to a new precast concrete influent structure located in the northeast corner of Lagoon Cell #1. A new 20-inch ductile-iron influent pipe will be installed in Cell #1. The influent pipe will discharge over a concrete pad. The existing influent structure and influent pipe will be capped and abandoned in place.
- Baffles A new floating baffle system is added to Lagoon Cell #1 and Cell #2 to redirect and slow the flow of water through the lagoon, allowing suspended solids time to settle and improving treatment. The baffles will also reduce short-circuiting in the lagoon. The baffle system includes a polyester reinforced ethylene interpolymer alloy baffle curtain with a flow-through window, tensioning system, flotation collar, and an anchoring system. The baffle in the Lagoon Cell #1 will be approximately 549 foot long. The baffle in the Lagoon Cell #2 will be approximately 562 foot long.
- Cover System A modular insulated floating cover system is added to Lagoon Cell #3 to block sunlight and reduce algae growth and the amount of total suspended solids in the lagoon effluent. Components of the cover include insulated casings, cable and perimeter anchors, fasteners, and sand tubes. The casings are the main cover component. The casings will be fabricated from two sheets of 40 mil High Density Polyethylene geomembrane, which provides a thermal barrier and flotation. The casings are attached to the perimeter with the cable and anchors. The casings are connected to each other by factory welded seams or fasteners. Sand tubes provide ballast to resist uplift due to wind forces.
- Lagoon Cell #3 Effluent Structure The existing shear gate valves in the Lagoon Cell #3 effluent structure will be replaced with new resilient wedge gate valves to provide greater operational flexibility and improved flow control.

- Disinfection System Improvements Improvements to the chlorination/dechlorination building primarily involve the replacement of existing equipment that has been corroded by improper ventilation of chlorine gases. Items that will be replaced include the wall-mounted unit heater, thermostat, two disconnect switches, exhaust fan, and existing non-PVC conduit. The peristaltic pumps for the chlorination and de-chlorination chemical feed system will be replaced like for like. The pumps will be connected to a battery backup system to ensure disinfection is maintained during power outages. To improve mixing in the chlorine contact basin, a small, compressed air tube will be installed at the dosing point. Additionally, the chamber will be covered with aluminum plates to block sunlight that promotes the regrowth of algae in the effluent.
- Effluent Flow Measurement An open channel level transmitter flow measurement system consisting of ultrasonic transducer, controller, and interconnection cable will be installed at the existing V-notch weir for effluent flow measurement.

5. **OPERATING PERMIT**

These construction activities do not change the effluent limits or conditions of the current operating permit. The department will conduct an internal modification to reflect the current facility description upon receipt of the Statement of Work Completed form.

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: https://ahc.mo.gov

Sieu T. Dang, P.E. Engineering Section sieu.dang@dnr.mo.gov



 FOR DEPARTMENT USE ONLY

 APP NO.
 CP NO.

CHECK NO.

FEE RECEIVED

DATE RECEIVED

APPLICATION OVERVIEW	
The Application for Construction Permit – Wastewater Treatment Facility form has been of Part A and B. All applicants must complete Part A. Part B should be completed for wastewater or propose land application for wastewater treatment. Please read the acc completing this form. Submittal of an incomplete application may result in the application for wastewater treatment.	or applicants who currently land-apply companying instructions before
PART A – BASIC INFORMATION	
1.0 APPLICATION INFORMATION (Note – If any of the questions in this section are a considered incomplete and returned.)	answered NO, this application may be
1.1 Is this a Federal/State funded project? YES N/A Funding Agency: <u>D</u>	NR-ARPA Project #:
1.2 Has the Missouri Department of Natural Resources approved the proposed project □ YES Date of Approval: □ YES Date of Approval:	s antidegradation review?
1.3 Has the department approved the proposed project's facility plan*? ✓ YES Date of Approval: <u>8-30-2</u> 3 □ NO (If No, complete No. 1.4.)	
 1.4 [Complete only if answered No on No. 1.3.] Is a copy of the facility plan* for waster application? ☐ YES ☐ NO ☐ Exempt because 	vater treatment facilities included with this
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	
1.6 Is a summary of design* included with this application? YES INO	
 1.7 Has the appropriate operating permit application (A, B, or B2) been submitted to the ☐ YES Date of submittal:	ote which form: ☐ A ☐ B ☑ B2 quires revision to permit limitation such as
1.8 Is the facility currently under enforcement with the department or the Environmenta	l Protection Agency? 🔲 YES 🗹 NO
1.9 Is the appropriate fee or JetPay confirmation included with this application? Y See Section 7.0	ES 🗹 NO
See Section 7.0 * Must be affixed with a Missouri registered professional engineer's seal, signature and	
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NAME	Γ Υ	TELEPHONE NUMBER WITH		E-MAIL ADDRES	38	
Brunswick Wastewater Treatment Facility		660-548-3028	TARLACODE		vick@yahoo.com	
ADDRESS (PHYSICAL)	CITY	000 040 0020	STATE	ZIP CODE	COUNTY	
Meyer Rd. and Small St. intersection	Brunswic		MO	65236	65236 Chariton	
Wastewater Treatment Facility: Mo- 003255	7 (Outfal	I 001 Of 001)				
3.1 Legal Description:1⁄4,1⁄4 (Use additional pages if construction of more		¼, Sec. <u>11</u> , T <u>53</u> utfall is proposed.)	<u>3N</u> , R <u>20W</u>			
3.2 UTM Coordinates Easting (X): <u>489916</u> For Universal Transverse Mercator (UTM), Zo	Northing	g (Y): <u>43629</u> 72 h referenced to North Am	nerican Datum 1	983 (NAD83)		
3.3 Name of receiving streams: Grand	River					
4.0 PROJECT OWNER						
NAME		TELEPHONE NUMBER WITH	AREA CODE	E-MAIL ADDRESS		
City of Brunswick	CITY	660-548-3028	STATE	brunswick.mo.mayor@gmail.com		
115 West Broadway St.	Brunswic	k	MO	65236		
5.0 CONTINUING AUTHORITY: A continui					will be operating the facility	
and/or ensuring compliance with the permit r			less, entity of	person(s) mar	will be operating the lacinty	
NAME		TELEPHONE NUMBER WITH	AREA CODE	E-MAIL ADDRES		
City of Brunswick		660-548-3028	-		no.mayor@gmail.com	
^{ADDRESS} 115 West Broadway St.	CITY Brunswic		STATE MO	ZIP CODE 65236		
•	I					
5.1 A letter from the continuing authority, if c					YES 🗌 NO 🗹 N/A	
5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHO						
A. Is a copy of the certificate of convenience	and nece	ssity included with this	s application?	YES [NO	
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHO						
5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHO	KITTIS AFRO	DERTT OWNERS ASSOCIATIO	JN.			
A. Is a copy of the as-filed restrictions and co	ovenants i					
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				YES NO		
B. Is a copy of the as-filed warranty deed, qu					ship of the land for the	
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