

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 Richmond
205 Summit St.
Richmond, MO 64085

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.

August 30, 2019
Effective Date

August 29, 2021
Expiration Date


Edward B. Galbraith, Director, Division of Environmental Quality


Chris Wieberg, Director, Water Protection Program

CONSTRUCTION PERMIT

COLLECTION SYSTEM:

210 Lift Station and Equalization Basin Expansion-Construct lift station and modify wet weather flow equalization basin. The basin at the high water level (731.0 ft elevation) has a design volume of approximately 0.15273 MG, is 106 length ft 66 ft width 6 ft deep with 8-ft berms and 4:1 side slope. The basin seal is 12-inch of on-site compacted clay soils and is covered with a 12-inch layer of organic, low plasticity clay soil. Construction of tri-plex lift station with a firm capacity of 615 gpm at 162 TDH. Each of three pumps is capable of operating at 308 gpm at 162 feet of TDH.

Project is in the vicinity of the west of the Wellington Road in the south of Richmond city, Ray County and discharges to an existing system to be treated at Richmond South WWTP, MO-0100200. The City of Richmond is the owner and continuing authority for the project.

The project will also include general site work appropriate to the scope and purpose of the project.

PERMIT CONDITIONS:

1. Contact the department's Kansas City Regional Office 48 hours prior to starting construction. Contact information can be found at <https://dnr.mo.gov/regions/>.
2. This permit authorizes the activities and scope of work detailed in the plans and specifications submitted with the request. This construction permit does not authorize discharge.
3. All construction shall be consistent with the plans and specifications signed and sealed by Olsson Associates, Inc., and as described in this permit.
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 regional office per 10 CSR 20-7.015(9)(E)2.
5. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."

PERMIT CONDITIONS: (continued)

- A. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
- B. Sewer mains shall be laid at least ten feet (10') horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a ten foot (10') separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
- C. Manholes shall be located with the top access at or above grade level.
- D. Manholes should be located at least ten feet (10') horizontally from any existing or proposed water main.
- E. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
 - 1) The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
 - 2) Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends ten feet (10') on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.
- 6. 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 www.dnr.mo.gov/env/wpp/epermit/help.htm.

See www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm for more information.

PERMIT CONDITIONS: (continued)

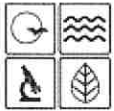
7. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of Jurisdictional Waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at 573-751-1300 for more information.

See www.dnr.mo.gov/env/wpp/401/ for more information.

8. Upon completion of construction:
 - A. Richmond will become the continuing authority for operation and maintenance of these facilities;
 - B. Submit an electronic copy of the as built of the project; and
 - C. Submit the enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N).

Mohammed Mohammed, M.Sc.
Engineering Section
Mohammed.Mohammed@dnr.mo.gov

John Rustige, P.E.
Engineering Section
john.rustige@dnr.mo.gov



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
**APPLICATION FOR CONSTRUCTION PERMIT –
WASTEWATER TREATMENT FACILITY**

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*?
☐ YES Date of Approval: _____ ☒ 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 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.) ☐ NO
- 1.6 Is a summary of design* included with this application? ☒ YES ☐ 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? ☐ YES ☒ NO
- 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

210 Lift Station & Stormwater Equalization Basin Expansion

2.2 ESTIMATED PROJECT CONSTRUCTION COST

\$ 772,500

2.3 PROJECT DESCRIPTION

Demolition of an existing lift station, construction of a new lift station, and expansion of an earthen equalization basin, and all other associated work

2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION

N/A

2.5 DESIGN INFORMATION

A. Current population: N/A; Design population: N/A

B. Actual Flow: 0.19 gpd; Design Average Flow: 0.89 gpd;

Actual Peak Daily Flow: 0.27 gpd; Design Maximum Daily Flow: 0.89 gpd; Design Wet Weather Event: 1.49

**SEE SECTION 3 DESIGN CRITERIA OF
ATTACHED REPORT**

2.6 ADDITIONAL INFORMATION

A. Is a topographic map attached? ☐ YES ☒ NO

B. Is a process flow diagram attached? ☐ YES ☒ NO

3.0 WASTEWATER TREATMENT FACILITY

NAME N/A		TELEPHONE NUMBER WITH AREA CODE N/A		E-MAIL ADDRESS N/A	
ADDRESS (PHYSICAL) N/A	CITY N/A	STATE N/A	ZIP CODE N/A	COUNTY N/A	

Wastewater Treatment Facility: Mo- N/A (Outfall N/A Of N/A)

3.1 Legal Description: N/A 1/4, N/A 1/4, N/A 1/4, Sec. N/A, T N/A, R N/A
(Use additional pages if construction of more than one outfall is proposed.)3.2 UTM Coordinates Easting (X): N/A Northing (Y): N/A
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

3.3 Name of receiving streams: N/A

4.0 PROJECT OWNER

NAME City of Richmond		TELEPHONE NUMBER WITH AREA CODE 816-776-5304		E-MAIL ADDRESS dshipp@cityofrichmondmo.org	
ADDRESS 205 Summit St	CITY Richmond	STATE MO	ZIP CODE 64085		

5.0 CONTINUING AUTHORITY: A continuing authority is a company, business, entity or person(s) that will be operating the facility and/or ensuring compliance with the permit requirements.

NAME City of Richmond		TELEPHONE NUMBER WITH AREA CODE 816-776-5304		E-MAIL ADDRESS dshipp@cityofrichmondmo.org	
ADDRESS 205 Summit St	CITY Richmond	STATE MO	ZIP CODE 64085		

5.1 A letter from the continuing authority, if different than the owner, is included with this application. ☐ YES ☐ NO ☒ N/A

5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.

A. Is a copy of the certificate of convenience and necessity included with this application? ☐ YES ☒ NO

5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION.

A. Is a copy of the as-filed restrictions and covenants included with this application? ☐ YES ☒ NOB. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application? ☐ YES ☒ NOC. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application? ☐ YES ☒ NOD. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? ☐ YES ☒ NO**6.0 ENGINEER**

ENGINEER NAME / COMPANY NAME Michael D. Milius / Olsson		TELEPHONE NUMBER WITH AREA CODE 816-442-6013		E-MAIL ADDRESS mmilius@olsson.com	
ADDRESS 1301 Burlington Street	CITY North Kansas City	STATE MO	ZIP CODE 64116		

7.0 APPLICATION FEE☐ CHECK NUMBER ☒ JETPAY CONFIRMATION NUMBER 20010473**8.0 PROJECT OWNER:** I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

PROJECT OWNER SIGNATURE



PRINTED NAME Tonya A. William		DATE 7-23-19	
TITLE OR CORPORATE POSITION City Administrator		TELEPHONE NUMBER WITH AREA CODE 816-776-5304	
		E-MAIL ADDRESS twilliam@cityofrichmondmo.org	

Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM
P.O. BOX 176
JEFFERSON CITY, MO 65102-0176**END OF PART A.****REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.**