

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



CONSTRUCTION PERMIT

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

Raccoon Creek Operating Utility Company, Inc.
Hunter's Ridge Subdivision
1954 Timber Ridge Drive
Sedalia, MO 65301

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.

April 7, 2015
Effective Date

Sara Parker Pauley
Sara Parker Pauley, Director, Department of Natural Resources

April 6, 2017
Expiration Date

John Madras
John Madras, Director, Water Protection Program

CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Hunter's Ridge Subdivision is replacing their existing extended aeration plant with a new extended aeration plant. Flow equalization and sludge storage will occur in the existing tankage. The permitted design flow will be 27,000 gallons per day. Construction will include a new extended aeration plant with a new pump station, bar screen, aeration tank, clarifier, ultraviolet disinfection, AquaAzul model AZ-800, and all necessary appurtenances to make a complete and usable wastewater treatment plant.

II. FINDING OF AFFORDABILITY

The Finding of Affordability is not applicable. The permittee is not a combined or separate sanitary sewer system or a publicly owned treatment works.

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 in accordance with the plans and specifications submitted by 21 Design Group on December 15, 2014 and January 15, 2015.
3. The department must be contacted in writing prior to making any changes to the approved 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(8).
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 Kansas City Regional Office per 10 CSR 20-7.015(9)(E)2.
5. This construction permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans"
6. 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."

7. 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.
 - A. Sewer mains shall be laid at least 10 feet 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 10 foot 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.
 - B. Manholes should be located at least 10 feet horizontally from any existing or proposed water main.
 - C. Manholes shall be located with the top access at or above grade level.
 - D. 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:
 - a. 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
 - b. Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends 10 feet 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.
8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of 1 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.

9. 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.
10. Upon completion of construction;
 - A. The Raccoon Creek Operating Utility Company, Inc. will become the continuing authority for operation, maintenance, and modernization of these facilities;
 - B. Submit the enclosed form Statement of Work Completed to the department in accordance with 10 CSR 20-6.010(5)(D);
 - C. Submit an electronic copy of the as built; and
 - D. Submit a Form B - Application for an Operating Permit for Domestic or Municipal Wastewater, along with the Statement of Work Completed to receive the modified operating permit.

IV. REVIEW SUMMARY

1. AMMONIA

The Water Protection Program is providing this notice to inform permittees that EPA's published ammonia criteria for aquatic life protection is lower than the current Missouri criteria. The department has initiated stakeholder discussions on this topic and at this time, there is no firm target date for starting the rulemaking to adopt new standards. More information can be found at <http://dnr.mo.gov/pubs/pub2481.pdf>.

The draft operating permit further discussed the proposed ammonia effluent limits. The treatment plant is being designed to meet the proposed 2013 EPA ammonia effluent limits.

2. CONSTRUCTION PURPOSE

The facility is being upgraded with a new treatment plant to meet the final ammonia effluent limits. Upgrades to the equipment are necessary for maintaining control of the aeration zone in the treatment plant. Raccoon Creek Utility recently bought the facility and has concerns about the integrity of the existing facility and wants to replace the existing extended aeration plant with a new extended aeration plant to provide better effluent and to serve the community better.

3. FACILITY DESCRIPTION

The existing extended aeration plant was designed with an average daily flow of 55,000 gallons per day. The new treatment plant will be constructed for 27,000 gpd to serve 149 connections. The construction of a new extended aeration plant will reuse existing tanks onsite for sludge storage and flow equalization.

Parameter	Units	AML	Maximum DMR reported	Average DMR reported
Flow	MGD	*	0.0251	0.020987
BOD ₅	mg/L	30	9.4	4.52
TSS	mg/L	30	15	5.04
pH	SU	6.5-9	7.4	7.24
Ammonia-s	mg/L	*	0.97	0.363
Ammonia-w	mg/L	*	0.96	0.28

*monitoring only

★ DMR Summary from January 1, 2010-December 15, 2014

4. COMPLIANCE PARAMETERS

The construction of the new treatment plant is to replace aging infrastructure. The existing permit has monitoring only for ammonia and has no *E. Coli* effluent limits. This construction permit will allow the facility to meet ammonia effluent limits of 1.4 mg/L summer and 2.9 mg/L winter, plus meet *E. Coli* limits. With the construction of the new extended aeration plant, better control and operation of the aeration zone is expected.

5. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

The existing system tankage can be used for side-stream flow equalization and sludge storage. Flow equalization will assist the plant to maintain a better effluent and also allow less clarification to meet the proposed limits. The capacity of the flow equalization tank is 225,000 gallons. The permitted design flow will be 27,000 gallons per day.

A new pump station will be built before the new treatment facility. The pump station will be a Keen Pump packaged system with centrifugal KG-21 grinder pumps. The pump has a capacity of 33 gpm with total head of 24 feet. Along with the pump station, approximately 92 linear feet of 8 inch PVC SDR-35 and 85 linear feet of 2 inch PVC SDR-21 forcemain, and two manholes will be installed along with all necessary appurtenances to make a complete and usable wastewater treatment plant.

A bar screen will be installed before flows go into the treatment plant to provide additional removal of large solids. The bar screen will have ½" diameter bars spaced 1" apart.

In the treatment plant, the aeration tank volume is 4,104 cubic feet (30,700 gallons), which is greater than the 3,629 cubic feet required per 10 CSR 20-8 for aeration at 15 lbs BOD per 1,000 cubic feet. The aeration tank is expected to be operated at a MLSS of 2100 mg/L. The operational SRT is 25 days.

Following the aeration tank is the clarifier. The clarifier must meet the minimum four hour detention time, which requires a volume of 903 cubic feet (6,751 gallons). The clarifier is 12 foot by 12 foot by 5.8 foot, provides 835 cubic feet plus a third of the volume of the frustum of the hopper of 172 cubic feet, providing a total of 1050 cubic feet (7,854 gallons or 4.65 hours of detention time). The surface settling rate of each clarifier is 270 gallons per day per square foot, which is less than the maximum surface settling rate in 10 CSR 20-8 of 1,000 gallons per day per square foot. There will be installed within each clarifier chamber a positive scum and skimming recirculation system consisting of one 2" diameter airlift skimming device.

The ultraviolet disinfection system, AquaAzul model AZ-800, is an open channel design. It has a transmission of 65% and can handle flows up to 68 gpm (100,000 gpd). The UV system was designed for systems with BOD and TSS less than 30 mg/L, which the facility is being designed to meet. This system will be located within a precast concrete tank with hinged, lockable, aluminum top grate for convenient servicing. The UV system will have four channels, with one bank per channel, two modules per bank, and two lamps per module for a total of 16 lamps. A UV intensity monitoring system will be installed that will include a detector which will give a percentage readout of the UV intensity.

6. OPERATING PERMIT MODIFICATION

Operating permit MO-0109592 will require a modification to reflect the construction activities. Upon construction completion submit a Form B - Application for an Operating Permit for Domestic or Municipal Wastewater ($\leq 100,000$ gallons per day) with their Statement of Work Complete. The draft operating permit was public noticed January 30, 2015 through March 2, 2015 with no comments received. The facility has already paid for the operating permit modification. The modification and upgrades to the treatment plant removes the schedule of compliance from the operating permit.

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

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

www.dnr.mo.gov

APR - 7 2015

Mr. Josiah Cox
Raccoon Creek Operating Utility Company Inc.
3636 South Geyer Road, Suite 100
St. Louis, MO 63127

RE: Hunter's Ridge Subdivision Wastewater Treatment Facility, MO-0109592, Construction Permit No. CP0001709, Pettis County

Dear Mr. Cox:

The Missouri Department of Natural Resources, Water Protection Program, has reviewed the plans and specifications submitted by 21 Design Group on behalf of the Central States Water Resources. Please find enclosed Construction Permit No. CP0001709.

This permit will terminate 24 months from the date of issuance. In accordance with 10 CSR 20-6.010(4)(G), the department may grant an extension only one time. If you believe that an extension is necessary, you must submit a request and a justification in writing for the extension at least 30 days prior to the permit expiration date.

This construction permit does not supersede any requirements of the operating permit or enforcement actions. Nothing in this permit removes any obligations to comply with county or other local ordinances or restrictions.

If you were adversely affected by this decision, you may be entitled to an appeal before the Administrative Hearing Commission (AHC) pursuant to 10 CSR 20-1.020 and 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. Contact information for the AHC is: Administrative Hearing Commission, Truman State Office Building, Room 640, 301 W. High Street, P.O. Box 1557, Jefferson City, Missouri 65102, Phone: 573-751-2422, Fax: 573-751-5018, and Website: www.oa.mo.gov/ahc.

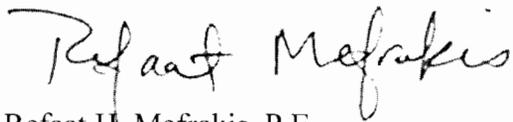
Mr. Cox
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If you have any questions concerning this matter, please contact Ms. Leasue Meyers, of the Water Protection Program, at (573) 751-7906 or Missouri Department of Natural Resources, P.O. Box 176, Jefferson City, Missouri 65102.

Thank you for your efforts to help ensure clean water in Missouri.

Sincerely,

WATER PROTECTION PROGRAM

A handwritten signature in black ink that reads "Refaat Mefrakis". The signature is written in a cursive style with a large initial 'R'.

Refaat H. Mefrakis, P.E.
Engineering Section Chief

RHM: lmk

Enclosures

c: Mr. Benjamin J. Kuenzel, P.E., 21 Design Group
Kansas City Regional Office

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