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 Neelyville
Neelyville Wastewater Treatment Facility
150-3 Park Street
Neelyville, MO 63954

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.

October 14, 2020
Effective Date

Edward B. Galbraith, Director, Division of Environmental Quality

October 13, 2022
Expiration Date

Chris Wieberg, Director, Water Protection Program
CONSTRUCTION PERMIT

I. CONSTRUCTION DESCRIPTION

Neelyville Wastewater Treatment facility is an existing facility with a three-cell facultative lagoon in Neelyville City. The sludge production is usually retained in the lagoons. The design sludge rate is 19.6 dry tons per year. The facility has a parshall flume located at the end of the tertiary cell in lagoon.

The proposal is to install two electromagnetic flow meters, a manual bar screen before the primary lagoon cell, a UV disinfection system after the tertiary cell, and a single blower. The average daily facility’s design flow will remain 0.08 MGD. The effluent will flow by gravity from the facility and tie into existing piping that leads to the outfall at Cane Creek.

This project will 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 Horner and Shifrin Inc. on June 29, 2020 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. The ultraviolet disinfection shall be located above the twenty-five (25)-year flood level.

6. The wastewater facility structures, electrical equipment, and mechanical equipment shall be protected from physical damage by not less than the one hundred- (100-) year flood elevation per 10 CSR 20-8.140(2)(B). The minimum distance between wastewater treatment facilities and all potable water sources shall be at least three hundred feet (300') per 10 CSR 20-8.140(2)(C)1.

7. 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 dnr.mo.gov/env/wpp/epermit/help.htm. See dnr.mo.gov/env/wpp/401/ for more information.

8. 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 dnr.mo.gov/env/wwp/401/ for more information.

9. All construction must adhere to applicable 10 CSR 20-8 (Chapter 8) requirements listed below.

- Facilities shall be readily accessible by authorized personnel from a public right–of-way at all times. 10 CSR 20-8.140 (3) (D)

- 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, the UV disinfection facilities. 10 CSR 20-8.140 (7) (C)
• Emergency Power. Disinfection and dechlorination processes, when used, shall be provided during all power outages. 10 CSR 20-8.190 (2) (A)

• The UV dosage shall be based on the design peak hourly flow, maximum rate of pumpage, or peak batch flow. 10 CSR 20-8.190 (5) (A) 1

• If no flow equalization is provided for a batch discharger, the UV dosage shall be based on the peak batch flow. 10 CSR 20-8.190 (5) (A) 2.

• The UV system shall deliver the target dosage based on equipment derating factors and, if needed, have the UV equipment manufacturer verify that the scale up or scale down factor utilized in the design is appropriate for the specific application under consideration. 10 CSR 20-8.190 (5) (A) 3.

• Open channel UV systems. The combination of the total number of banks shall be capable of treating the design peak hourly flow, maximum rate of pumpage, or peak batch flow. 10 CSR 20-8.190 (5) (B) 1.

• The UV system must continuously monitor and display at the UV system control panel the following minimum conditions:
  o The relative intensity of each bank or closed vessel system; 10 CSR 20-8.190 (5) (C) 1. A.
  o The operational status and condition of each bank or closed vessel system; 10 CSR 20-8.190 (5) (C) 1. B.
  o The ON/OFF status of each lamp in the system; 10 CSR 20-8.190 (5) (C) 1. C. and the total number of operating hours of each bank or each closed vessel system.
  o The total number of operating hours of each bank or each closed vessel system. 10 CSR 20-8.190 (5) (C) 1. D.

• The UV system shall include an alarm system. Alarm systems shall comply with 10 CSR 20-8.140(7) (C). 10 CSR 20-8.190 (5) (C) 2.

• Pump stations:
  o Facilities shall be readily accessible by authorized personnel from a public right–of–way at all times. 10 CSR 20-8.140 (2) (D)
  o Enclose the facility site with a fence designed to discourage the entrance of unauthorized persons and animals. 10 CSR 20-8.140 (8) (A)
  o The distance between wastewater pumping stations and all potable water sources shall be at least fifty feet (50') in accordance with 10 CSR 23-3.010(1)(B). 10 CSR 20-8.130 (2) (D)
  o There shall be no physical connections between a public or private potable water supply system and a sewer or appurtenance that would permit the passage of any wastewater or polluted water into the potable supply. Sewers shall be laid at least fifty feet (50') in a horizontal direction from any existing
or proposed public water supply well or other water supply sources or structures. Sewers must also comply with 10 CSR 23-3.010. 10 CSR 20-8.120 (5)

- Simplex grinder pump station shall—
  - Not serve multiple equivalent dwelling units (EDU) if owned, operated, and maintained by individual homeowners; and
  - Not serve commercial facilities. 10 CSR 20-8.125 (5) (D) 1. A.

- Multiple unit grinder pump stations must be owned, operated, and maintained by an approved continuing authority. See subsection (4)(A) of this rule for more continuing authority information. 10 CSR 20-8.125 (5) (D) 1. B.

- Grinder pump vaults shall be watertight. 10 CSR 20-8.125 (5) (D) 2.

- A grinder pump vault shall have a storage volume of at least seventy (70) gallons. 10 CSR 20-8.125 (5) (D) 3.

- The following valves must be provided in the grinder pump vaults: 10 CSR 20-8.125 (5) (D) 4.
  - A shutoff valve accessible from the ground surface;
  - A check valve to prevent backflow; and
  - An anti-siphon valve, where siphoning could occur.

- Grinder pump stations shall meet the applicable requirements under section 10 CSR 20-8.130 (3) of this rule, except as modified in this section. 10 CSR 20-8.130 (5)
  - Submersible pumps shall be readily removable and replaceable without personnel entering, dewatering, or disconnecting any piping in the wet well.
  - Valves shall be located in a separate valve chamber.
  - A minimum access hatch dimensions of twenty-four inches by thirty-six inches (24" x 36") shall be provided.
  - A portable pump connection on the discharge line with rapid connection capabilities shall be provided.

- Water level controls must be accessible without entering the wet well. 10 CSR 20-8.130 (3) (C)

- 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)
• Electrical Equipment shall utilize corrosive resistant equipment located in the wet well. 10 CSR 20-8.130 (3) (B) 2. B.

• Electrical Equipment shall provide a watertight seal and separate strain relief for all flexible cable. 10 CSR 20-8.130 (3) (B) 2. C.

• Install a fused disconnect switch located above ground for the main power feed for all pumping stations. 10 CSR 20-8.130 (3) (B) 2. D.

• When electrical equipment is exposed to weather, it shall comply with the requirements of weather proof equipment; enclosure NEMA 4; NEMA 4X where necessary; and NEMA Standard 250-2014, published December 15, 2014. 10 CSR 20-8.130 (3) (B) 2. E.

• Install lightning and surge protection systems. 10 CSR 20-8.130 (3) (B) 2. F.

• Install a one hundred ten volt (110 V) power receptacle inside the control panel located outdoors to facilitate maintenance. CSR 20-8.130 (3) (B) 2. G.

• Provide Ground Fault Circuit Interruption (GFCI) protection for all outdoor receptacles. 10 CSR 20-8.130 (3) (B) 2. H.

• When the continuing authority operates and maintains the grinder pump stations, provisions must be made for periods of mechanical or power failure. 10 CSR 20-8.125 (5) (D) 8.

• Duplex pumps shall be provided where the design flow from the EDUs, or other, is one thousand five hundred (1,500) gallons per day or greater. 10 CSR 20-8.125 (6) (F) 1.

• Water level controls must be accessible without entering the wet well. 10 CSR 20-8.130 (3) (C)

10. Upon completion of construction:

A. The City of Neelyville 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 enclosed form Statement of Work Completed to the Department in accordance with 10 CSR 20-6.010(5)(N). When the facility applies for their next operating permit renewal, they will be expected to include an updated facility description on their application.
IV. REVIEW SUMMARY

1. CONSTRUCTION PURPOSE

The facility is installing UV disinfection to meet final *E. coli* effluent limits that became effective October 1, 2018.

The facility also needs to have accurate flow measurement by installing a flow measurement device. They improve its capability to treat the effluent to meet the permit limits.

2. FACILITY DESCRIPTION

This City of Neelyville WWTF is an existing facility that consists of a three-cell lagoon under the permit MO-0105627. The sludge is stored in the lagoon. The design sludge is 12 dry tons/year.

The City of Neelyville WWTF, is located at east of Naylor and west of Quin near the intersection of US Highway 67 and MO Highway 142, Neelyville City, in Butler County, Missouri. The facility has a design average flow of 0.08 MGD and serves a hydraulic population equivalent of approximately 800 people. The receiving stream for this facility is the Cane Creek.

3. COMPLIANCE PARAMETERS

The proposed project is required to meet final effluent limits of *E. coli* mg/l as listed in Operating Permit MO-0105627 that became effective October 1, 2018.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Units</th>
<th>Monthly average limit</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>E. coli</em></td>
<td>#/100mL</td>
<td>206</td>
</tr>
</tbody>
</table>

4. REVIEW of MAJOR TREATMENT DESIGN CRITERIA

- Components are designed for a Population Equivalent of 800 based on organic loading to the system.

- Flow Measurement – Installation of accurate flow measurement devices will give the treatment facility a means of improved data analysis.
  - Electromagnetic Meter – two electromagnetic flow meters shall measure the wastewater. One 6 inch influent flow meter will be installed in a new concrete vault of 5 feet length x 5 feet width x 4 feet height that will be placed after
the terminal lift station and prior to the new manual bar screen. One 8 inch flow meter will be placed immediately before the new UV disinfection channel.

- Screening – Installation of screening devices removes nuisance inorganic materials from raw wastewater.
  - Manual Coarse Bar Screen – The manual coarse bar screen will have clear bar spacing of ¼ -inch and be positioned at an angle of 45 degrees from the horizontal to allow for manual raking of the screen. The coarse bar screen is placed before the primary lagoon and followed by a weir for influent flow measurement.
  - New turtle screen on inflow pipe will be installed in the settling cell on lagoon outflow structure.

- Disinfection – Disinfection is the process of removal, deactivation, or killing of pathogenic microorganisms.
  - Open Channel Ultraviolet (UV) – A vertical open channel, gravity flow, low pressure high intensity UV disinfection system capable of treating a peak flow of 325,000 gpd while delivering a minimum UV intensity of 30 mJ/cm2 with an expected ultraviolet transmissivity of 65% or greater. The single open channel UV system consists of 2 modules in series with 28 lamps per module or 56 lamps total. The disinfected effluent will flow by gravity through flow measurement equipment and to Outfall No. 001. The channel is 16.42 ft length x 1.38 ft width x 3.08 ft height with outlet boxes, for a gravity flow, low pressure high intensity ultraviolet disinfection system.
  - Fixed Weir – A weir with 1-4 ½ feet width x 3 feet length x 2-6 feet height will be located within the UV disinfection channel for flow measurements.
  - Aeration by means of one blower which will provide the periodic 3 scfm at 3-5 psig design air flow with 5 HP motors to provide air scour for the UV disinfection bulbs. The effluent from the reactor will be collected in a common effluent structure and will flow by gravity to the disinfection system.
  - Emergency Power – The facility will not have an emergency power generator since they decided that the lagoon storage itself can serve as emergency “backup”. Mayor Bynum, of the City of Neelyville, reported that this has not been an issue in the past.
5. OPERATING PERMIT

These construction activities do not require a modification to the operating permit. It is expected that the facility owner will include a new facility description and process flow diagram in their next operating permit renewal application to reflect the installation of a UV disinfection system.

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

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

Cindy LePage, P.E.
Engineering Section
cindy.lepage@dnr.mo.gov
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: USDA-RD Project #: N/A

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: 2/7/20  ☑ 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
Neelyville Wastewater Treatment Facility and Collection System

2.2 ESTIMATED PROJECT CONSTRUCTION COST
$ 1,305,443

2.3 PROJECT DESCRIPTION
Rehabilitation of the Neelyville, MO Wastewater Treatment Facility and Collection System Work

2.4 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION

Sludge Stored in Lagoon

2.5 DESIGN INFORMATION

A. Current population: 483 ; Design population: 800

B. Actual Flow: .0035 gpd; Design Average Flow: .08g m 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?  ☑ YES ☐ NO

B. Is a process flow diagram attached?  ☑ YES ☐ NO
3.0 WASTEWATER TREATMENT FACILITY

<table>
<thead>
<tr>
<th>NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neelyville Wastewater Treatment Facility</td>
<td>(573) 213-4945</td>
<td><a href="mailto:neelyville@windstream.net">neelyville@windstream.net</a></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>ADDRESS (PHYSICAL)</th>
<th>CITY</th>
<th>STATE</th>
<th>ZIP CODE</th>
<th>COUNTY</th>
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<tbody>
<tr>
<td>150-3 Park Street</td>
<td>Neelyville</td>
<td>MO</td>
<td>63054</td>
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Wastewater Treatment Facility: Mo-0105827 (Outfall 001 Of 1)

3.1 Legal Description: ¼, ¼, ¼, Sec., T, R
(Use additional pages if construction of more than one outfall is proposed.)

3.2 UTM Coordinates: Easting (X): 724103 Northing (Y): 4049270
For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)

3.3 Name of receiving stream: Cane Creek

4.0 PROJECT OWNER

<table>
<thead>
<tr>
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<td>PO Box 36</td>
<td>Neelyville</td>
<td>MO</td>
<td>63054</td>
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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.

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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 ☐ NO
B. 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 ☐ NO
C. 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 ☐ NO
D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application? ☐ YES ☐ NO

6.0 ENGINEER

<table>
<thead>
<tr>
<th>ENGINEER NAME / COMPANY NAME</th>
<th>TELEPHONE NUMBER WITH AREA CODE</th>
<th>E-MAIL ADDRESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horner &amp; Shifrin, Inc.</td>
<td>(573) 727-9666</td>
<td><a href="mailto:rcsummers@hornershifrin.com">rcsummers@hornershifrin.com</a></td>
</tr>
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<tr>
<td>4061 Highway PP, Ste 1</td>
<td>Poplar Bluff</td>
<td>MO</td>
<td>63901</td>
</tr>
</tbody>
</table>

7.0 APPLICATION FEE

☐ CHECK NUMBER 1018 ☐ PAYMENT CONFIRMATION NUMBER

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 knowingly violating.

PROJECT OWNER SIGNATURE

PRINTED NAME: Kevin Bynum

DATE: 06/04/2020

MAIL COMPLETED COPY TO: MISSOURI DEPARTMENT OF NATURAL RESOURCES WATER PROTECTION PROGRAM P.O. BOX 175 JEFFERSON CITY, MO 65102-0176

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHETHER PART B NEEDS TO BE COMPLETE.