



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
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Harold D. Ward, Cabinet Secretary
dep.wv.gov

MEMORANDUM

To: Marie Prezioso, Chair
Funding Committee
Infrastructure and Jobs Development Council

From: Katheryn Emery, P.E. Engineering Chief
Sewer Technical Review Committee

Date: February 19, 2024

Subject: Ravencliff-McGraws-Saulsville Public Service District
Preliminary Application IJDC No. 2024S-2528 Glen Rogers WWTP CN

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1. This committee has reviewed the preliminary application and engineering report submitted for the above referenced project in accordance with Chapter 31, Article 15A. It has been determined that the proposed project is:
 - a. Consistent with the intent of the Infrastructure and Jobs Development Act and is the most cost-effective, environmentally sound alternative for solving the wastewater needs in this area.
 - b. Not consistent with the Act and may not be the most cost effective, environmentally sound alternative for solving the wastewater needs in this area.
 - c. Same as (a) above except that certain issues need to be addressed prior to design and construction as the attached comments indicate.
 2. Our recommendation is that:
 - a. The Funding Committee needs to review the proposed sources of funding to determine the best mix of grant and/or loan funds in accordance with applicable guidelines.
 - b. The Funding Committee should recommend that the Council approve the proposed project and its funding plan.

- c. ___ The Funding Committee does not need to review the funding assumptions on this project because of deficiencies in the engineering report. The proposed project should be tabled for the consultant to address technical comments.
- d. ___ This project should be referred to the Consolidation Committee.

3. Other remarks:

This project will replace the oxidation ditch rotors, disc aerators, covers, in-line grinders and controls, and electrical components at the WWTP. The one operable oxidation ditch rotor recently failed and flows at the WWTP are not receiving adequate treatment.

This project would be an interim improvement to the WWTP until the long-term Glen Rogers Wastewater System Improvements Project (2023S-2384) is constructed. Draft Consent Order #10172 was issued to GRPSD by the WVDEP on May 26, 2023. The order states that the return activated sludge system, comminutor, and the oxidation ditch rotor were not functional.

The proposed total cost for this project is \$560,000 and the PSD is pursuing an IJDC Critical Needs Grant for the full amount.

Using the Combined Application, the Engineering Fees appear to be within the ASCE curve.

The applicant should be prepared to discuss the status of the RMS project that will permanently solve the problem as well as the status of a going level rate increase and what loan, if any, can be afforded or implemented in light of the consolidation of the two systems. According to the application provided to the IJDC last fall, the RMS project should be preparing to bid by July 2024.



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MEMORANDUM

TO: Katheryn Emery, P.E., Engineer Chief, DWWM

FROM: Cali Carter, E.I., DWWM

DATE: February 13, 2024

SUBJECT: Ravencliff-McGraws-Saulsville Public Service District Preliminary Application: IJDC No. 2024S-2528 Glen Rogers WWTP Critical Needs

RECOMMENDATION

The IJDC Critical Need Application prepared by The Thrasher Group, Inc. for the above referenced project has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The Glen Rogers Public Service District (GRPSD) owns a sanitary sewer collection system and an oxidation ditch wastewater treatment plant (WWTP) that is designed to treat an average daily flow of 0.075 million gallons per day (MGD). The Ravencliff - McGraws - Saulsville Public Service District (RMSPSD) has been tasked with operating the GRPSD wastewater system for the last five years and all GRPSD assets are in the process of being transferred to RMSPSD. The GRPSD's system serves 86 residential customers, 3 commercial customers, and 1 resale customer.

This project proposes to replace the oxidation ditch rotors, disc aerators, covers, in-line grinders and controls, and electrical components at the WWTP.

This project would be an interim improvement to the WWTP until the long-term Glen Rogers Wastewater System Improvements Project (2023S-2384) is constructed.

The proposed total cost for this project is \$560,000 and the PSD is pursuing an IJDC Critical Needs Grant for the full amount. The current monthly rate for 3,400 gallons is \$46.56 (1.32% MHI).

NEED FOR PROJECT

The Wyoming County Commission ordered the merger of GRPSD into RMSPSD on April 18, 2018, and has recently taken steps to expedite the merger. The RMSPSD became involved due to a lack of operation and maintenance at the Glen Rogers system, which had led to severe deterioration of the 40+ year old collection and treatment system. The Glen Rogers wastewater treatment plant (WWTP) is experiencing major deficiencies in many of its treatment processes.

Draft Consent Order #10172 was issued to GRPSD by the WVDEP on May 26, 2023. The order indicated that the WWTP was not being operated or maintained properly and has significant deficiencies. The order states that the return activated sludge system, comminutor, and the oxidation ditch rotor were not functional. Additionally, there were significant issues with the clarifiers, chlorine contact chamber, flow meter, sludge drying beds, and the WWTP outfall. The GRPSD has regularly exceeded permitted effluent limits, with 133 total exceedances during the time period of March 1, 2021 to February 28, 2023.

The one operable oxidation ditch rotor recently failed and flows at the WWTP are not receiving adequate treatment.

DEFICIENCIES/COMMENTS

- Using the Combined Application, the Total Engineering Fee and the Design Fee appear to be within the ASCE curve.