



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
Charleston, WV 25304
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Harold D. Ward, Cabinet Secretary
dep.wv.gov

MEMORANDUM

To: Marie Prezioso, Chair
Meredith J. Vance, Director, Environmental Engineering Division, BPH

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

Date: April 12, 2024

Subject: Mingo County Public Service District
Preliminary Application: IJDC No. 2024W-2544
Critical Immediate Need Application

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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.

Promoting a healthy environment.

- 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:

The PSD will upgrade the Lenore Booster Pump Station and construct a portable, diesel powered pump with suction and discharge lines to provide flexibility as a second intake. This would give the PSD flexibility during cold and low flow events to assure that water service is reliable.

The proposed total cost for this project is \$798,000 and the PSD intends to pursue an IJDC Critical Needs Grant for the full amount.

This application was found to be technically feasible and recommended to the committee to determine if it meets the definition of a critical need.

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

Preliminary Project Ratings:

Public Health Benefits: 10

Compliance with Standards: 5



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MEMORANDUM

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

FROM: Robert Moore, DWWM

DATE: April 12, 2024

SUBJECT: Mingo County Public Service District
Preliminary Application: IJDC No. 2024W-2544
Critical Immediate Need Application

RECOMMENDATION

The IJDC Application and Preliminary Engineering Report prepared by E. L. Robinson Engineering for the above referenced project has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The Mingo County Public Service District (PSD) owns and operates an existing water system operating under Public Water System Identification number (PWSID#) WV3303029. The PSD serves 4,361 customers in the communities of Naugatuck, Nolan, Chattaroy, Pigeon Creek, Duncan Fork, Delorme, Ragland, and Dingess in Mingo County, WV. The PSD sold water to the Town of Kermit, Crum Public Service District, and the Town of Delbarton. The PSD purchased water from The Town of Kermit, Williamson Utility Board, and the Mountain Water District. The PSDs Water Treatment Plant (WTP) has a capacity of 1.5 million gallons per day (MGD).

This project would address recent issues experienced by the PSD resulting from extreme cold weather. The PSD proposes to upgrade the Lenore Booster Pump Station from 900 gpm pumps to 1,200 gpm pumps to provide greater flow to all downstream pump stations; construct a portable, diesel powered pump with suction and discharge lines to provide flexibility as a second intake or utilization at other pump stations; a pressure reducing station bypass and two pressure reducing valves at the Airport Booster Pump Station. This pump station provides service to the 496,000 gallon water storage tank at the Southern West Virginia Regional Airport. The bypass could be operated to draw that volume back into the system if required.

The proposed total cost for this project is \$798,000 and the PSD intends to pursue an IJDC Critical Needs Grant for the full amount. The current monthly rate for 3,400 gallons is \$43.42 (1.43% MHI).

NEED FOR PROJECT

The PSDs treatment plant is located along the Tug Fork of the Big Sandy River and during the recent cold spell in January, the river's water level receded while temperatures plummeted to below freezing for numerous days. The WTP would be inoperable when it would draw in slush into the intakes and then would need to be idle to correct the issue. At the same time, residents were allowing their faucets to drip to prevent their pipes from freezing. This created additional demand throughout the entire system that is supplied from this one treatment plant. As a result, many water storage tanks within the system became dry. The layout of the system is generally a series type scenario where tanks must be filled for the downstream pump station to receive adequate suction pressure.

DEFICIENCIES/COMMENTS

- This technical review was based on information provided on the Critical Immediate Need/No Service Funding Application Form. Missing information was obtained from the PSC Water Utility Rankings for 3,400 gallons and the PSC Annual Report for 2023.
- It should be noted that there are no customers out of service. The PSD is planning for the next extreme cold weather event.
- Based on the previous comments, additional information is required at a minimum. The best option would be to file a standard application to provide the necessary information and to request funding other than critical immediate need.
- Using the Combined Application, the Engineering Fees appear to be within the ASCE curve.
- A Preliminary Engineering Report was not prepared and therefore no alternatives presented for evaluation.

Preliminary Project Ratings:

Public Health Benefits: 10
Compliance with Standards: 5



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MEMORANDUM

MEMO TO: Meredith J. Vance
Office of Environmental Health Services
Bureau for Public Health

FROM: Brian D. Bailey *bb*
Technical Analyst
General Permits & Support Team

DATE: April 9, 2024

SUBJECT: Infrastructure Preliminary Application for the Mingo County PSD: Water Treatment Plant CN in Mingo County, WV. (2024W-2544)

We have reviewed the above referenced project application information. The Mingo County PSD, discharges its backwash to its site, which is covered under WV/NPDES Site Registration No. WVG640119, and expired on January 31, 2024 and needs to be reissued.

If the Mingo County PSD is considering repairing and painting an existing water treatment plant or storage tanks, then the scope of this project requires precautions to prevent contamination of the waters of the state. Prior to beginning any removal of old paint, the Mingo County PSD should contact Mr. Jeremy Bandy or a member of his staff at (304)-926-0499, extension 43894 for guidance in determining whether the paint to be removed is considered a hazardous waste. If so, proper containment and disposal procedures must be followed for the paint and any material associated with the sandblasting. If it is determined that the paint is not hazardous, the Mingo County PSD should contact John Lockhart or a member of his staff at (304)-926-0499, extension 43821 for proper disposal options.

Construction activities with a disturbed area of one (1) acre or greater are now required to register for the NPDES Storm Water Construction General Permit No. WV0115924 that became

effective on March 9, 2019. Projects registered under the previous General Permit No. WV0115100 were automatically provided coverage under WV/NPDES General Permit No. WV0115924. For more information, they may contact Larry Board at (304)-926-0499, extension 43883.

In light of the above, we have no objection to this project as long as the appropriate provisions are taken to assure compliance with Chapter 22, Article 11, of the Code of West Virginia and any associated regulations. The responsible party may contact Mylinda Maddox (304) 926-0499 ext. 43825, should additional information be required.

BDB:mam

cc: Katheryn Emery