



west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street, SE
Charleston, WV 25304
Phone: 304-926-0495 / Fax: 304-926-0463

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., Engineer Chief
Sewer Technical Review Committee

Date: May 21, 2025

Subject: Crum Public Service District
IJDC Application - 2024W-2562
Water Treatment Plant Construction Project

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 water 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.

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- 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 proposed project should be tabled until the June 2025 funding committee meeting to allow time for the consultant to review additional alternatives. Please review the May 14, 2025 letter from Wayne Morgan, IJDC, regarding an additional alternative requiring evaluation.



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MEMORANDUM

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

FROM: Jesse Rupe, P.E., DWWM

DATE: May 8, 2025

SUBJECT: Crum Public Service District
IJDC Application - 2024W-2562
Water Treatment Plant Construction Project

RECOMMENDATION

The IJDC Application and Preliminary Engineering Report prepared by E.L. Robinson Engineering for the above referenced project has been reviewed, this application should be tabled to review additional alternatives.

PROJECT DESCRIPTION

The Crum Public Service District (CPSD) is located in and supplies potable water to southern Wayne County, West Virginia under PWSID Permit #WV3302448. CSPD currently serves 1,333 customers and purchases all the water for their distribution system from the Kermit Municipal Water (KMW) and Mingo County Public Service District (MCPSD) water treatment plants (WTPs).

The project proposes that Crum PSD construct their own water treatment plant (WTP). The proposed WTP would be a 1,200 gallon per minute (gpm) surface water plant. It would include an intake structure on the bank of the Tug Fork River, three (3) raw water pumps, and approximately 400 ft of 12 inch Ductile Iron Pipe raw water intake line, which would connect to the existing distribution system. Also, three (3) booster pump stations would be replaced with pressure reducing valves, a new booster pump station would need to be constructed, and an additional water storage tank would need to be constructed. Crum PSD would be able to provide water service to Fort Gay from their existing US Rt. 52 Storage Tank and would need to be connected at the Mill Creek Road and US Rt. 52 Intersection.

The proposed total cost for this project is \$16,561,000 and Crum PSD intends to pursue a \$1,500,000 USACE Grant, a \$3,000,000 Community Development Block Grant, a \$1,000,000 IJDC Grant, a \$1,500,000 WVDEP DWSRF Debt Forgiveness Loan, a \$2,000,000 WVDEP DWSRF Loan, a \$1,000,000 USDA Grant, a \$1,340,000 USDA Grant, and \$5,221,000 WDA EEGF Grant. The proposed monthly rate for 3,400 gallons is \$68.04 (2.53% MHI).

NEED FOR PROJECT

Crum PSD currently purchases all of their water from Kermit Municipal Water and Mingo County Public Service District; they have little control over their water supply. CPSD is regularly requested to reduce or stop pumping water from their suppliers, and it causes shortages within their distribution system. KMW is proposing a project to upgrade their water treatment and distribution system, and CPSD is concerned this will result in significant increases in their water purchase rate. Fort Gay's WTP and system has multiple deficiencies and has trouble meeting their customer needs. Construction of Crum PSD's proposed WTP would also provide consistent water to Fort Gay.

DEFICIENCIES/COMMENTS

- It should be noted that Crum PSD and Fort Gay have not entered into any sort of agreement for water purchase.
- The utilities of KMW, Crum PSD and the Town of Fort Gay all lie within a twenty mile stretch of the Tug Fork River in southern Wayne County. The PER indicates KMW and Fort Gay's issues with finding certified operators. This could be an issue, as adding another surface water WTP would increase the number of operators required, in an area that is already limited with finding certified operators. KMW should also be brought to the table to discuss as its WTP is currently operating at 75 hours per week, and their system could benefit from the construction of a new WTP that is centrally located in this region. In addition, the alternative of a connection to the Kenova water system should be evaluated as an alternative water source(request letter May 14, 2025 from Wayne Morgan) .
- Using the Combined Application, the Design, and Total Engineering Fees appear to be within the ASCE Curves.

Preliminary Project Ratings:

Public Health Benefits: 15
Compliance with Standards: 15




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MEMORANDUM

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

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

DATE: April 24, 2025

SUBJECT: Infrastructure Preliminary Application for the Crum PSD: Water Treatment Plant
Construction Project in Wayne County, WV. (2024W-2562)

We have reviewed the above referenced project application information. The Crum PSD currently purchases water from the Town of Kermit Municipal Water and Mingo County Public Service District. If a new Water Treatment Plant with backwash discharge is constructed and put in operation, a new WV/NPDES permit will be required for this discharge.

If the Crum 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 Crum PSD should contact Mr. Brad Wright or a member of his staff at (304)-926-0499, extension 49746 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 Crum PSD should contact John Lockhart or a member of his staff at (304)-926-0499, extension 43889 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

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effective on April 6, 2024. 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: Kathryn Emery



WEST VIRGINIA

Infrastructure & Jobs Development Council

VIA ELECTRONIC MAIL

Crum Public Service District
ATTN: Troy Varney, Chairman
414 Crum Road
Crum, WV 25669

May 14, 2025

Subject: Water Treatment Plant (WTP) Project 2024W-2562

Chairman Varney,

Members of the Technical Review Committee reviewing the above subject project application have asked for additional information. Among the alternatives presented within the Preliminary Engineering Report (PER), the potential for the water plant in Kenova, WV to supply water on an emergency basis for Wayne County was not addressed. A project by Kenova is currently under construction to improve the water service to the Heartland Intermodal Gateway (HIG) in Prichard to provide sufficient main size for fire protection service (seen in the attached map).

Adding this evaluation of this alternative will provide a more complete analysis (including present worth). Please include an evaluation of this alternative to process timely for consideration.

Thank you for addressing this request. If you have any questions, please contact Wayne Morgan at 304.414.6501 (X 106).

Sincerely,

Wayne Morgan
Executive Director

c: Travis Thompson, President Wayne County Commission
 Gwen Clayton, Region II P&D Council
 Rick Roberts, E. L. Robinson
 Randall Lewis, E. L. Robinson
 Kathy Emery, WV DEP
 Jonathan Fowler, WV PSC
 Marie Prezioso, WV Water Development Authority
 Samme Gee, Jackson Kelly

Att: Wayne Water Served Areas (Map)



Water Service Areas in Western Wayne County

0 2 4 8 Miles

 Served Area

 **West Virginia**
Infrastructure & Jobs
Development Council