



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

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

Date: June 17, 2024

Subject: Oak Hill Sanitary Board
Preliminary Application: IJDC No. 2024S-2541
Oak Hill Industrial Park WWTP Replacement & Collection System Rehab

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 PSC concerns.
- d. ___ This project should be referred to the Consolidation Committee.

3. Other remarks:

This project will replace the Fayette Plateau Industrial Park WWTP with a lift station and will connect to the existing Oak Hill gravity sewer system along Lochgelly Road. The WWTP has reached the end of its useful life and has received numerous Notice of Violations from the WVDEP. This should address these issues. In addition, the gravity sewer parallel with Blake Street is failing, and the depth of the sewer makes it difficult to perform investigation, maintenance, or repairs. These lines will also be replaced with this project.

The proposed total cost for this project is \$1,745,000, and the City intends to pursue a \$1,745,000 CWSRF Principal Forgiveness Loan.

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

Preliminary Project Ratings:

Public Health Benefits: 10

Compliance with Standards: 20

Sherri A. Young, DO, MBA, FAAFP
Cabinet Secretary

Matthew Q. Christiansen, MD, MPH
State Health Officer

MEMORANDUM

TO: Jason Billups, P.E.
DEP/Infrastructure Sewer Technical Review Committee

FROM: William S. Herold, Jr., P.E., Assistant Manager
I/CD/Environmental Engineering Division

DATE: May 13, 2004

SUBJECT: City of Oak Hill
Preliminary Application **Project No.: 2024S-2541**
WWTP Replacement & Sewer Line Upgrade
Fayette County

RECOMMENDATION:

We have reviewed this preliminary application and recommend it be forwarded to the Funding Committee for review.

PROJECT SCOPE:

This preliminary application is to replace the existing Fayette Plateau Industrial Park WWTP with a new sewage lift station & force main and to replace the sanitary sewer line along Blake Street. Sewage from the industrial park will be treated at the City of Oak Hill's WWTP. The project will consist of the installation of approximately 3,000 LF of 8" PVC sewer line; 12-manholes; two (2) sewage lift stations; and approximately 500 LF of 2" and 800 LF of 8" PVC force main.

The cost per customer is **\$428**. Total estimated project cost is **\$1,745,000** (DEP Debt Forgiveness: **\$1,745,000**).

NEED FOR PROJECT:

The Preliminary Engineering Report indicates the existing WWTP is at the end of its useful life. The sewage collection system along Blake Street is failing and needs to be replaced.

CONCERNS:

None.

PERMITS:

A permit **will not be** required from the WV Bureau for Public Health prior to construction.





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MEMORANDUM

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

FROM: Michael King, P.E., DWWM

DATE: May 9, 2024

SUBJECT: Oak Hill Sanitary Board
Preliminary Application: IJDC No. 2024S-2541
Oak Hill Industrial Park WWTP Replacement & Collection System Rehab

RECOMMENDATION

The IJDC Application and Preliminary Engineering Report prepared by Thrasher Engineering has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The Oak Hill Sanitary Board (OHSB) is a Class A sanitary sewer utility serving approximately 4,077 customers in Fayette County, West Virginia. The OHSB's wastewater system is composed of two (2) wastewater treatment plants (WWTPs), one (1) package WWTP, 27 pumping stations, approximately 67 miles of gravity collection mains, and 80 miles of forcemains. The total treatment capacity of OHSB's wastewater system is 2,250,000 gallons per day (GPD). This project is focused on the Fayette Plateau Industrial Park WWTP, as well as the sanitary sewer collection system along Blake Street.

The proposed project will perform the following on the OHSB's wastewater system:

- Demolish the Fayette Plateau Industrial Park WWTP and replace it with a lift station to pump the industrial park's sanitary sewer to the existing gravity sewer system along Lochgelly Road
- Install lift station on Blake Street
- Install twelve (12) manholes
- Install approximately 1300 LF of forcemain line
- Install approximately 3000 LF of gravity line

The proposed total cost for this project is \$1,745,000, and the City intends to pursue a \$1,745,000 CWSRF Principal Forgiveness Loan. The proposed monthly rate for 3,400 gallons is \$62.88.

NEED FOR PROJECT

The OHSB currently operates the Fayette Plateau Industrial Park WWTP in the Lochgelly Industrial Park, which reached the end of its useful life over 20 years ago and is now failing. The steel components and structure show heavy deterioration, which has resulted in numerous complaints to the OHSB regarding odor, as well as a Notice of Violation (NOV) from the West Virginia Department of Environmental Protection (WVDEP) regarding improperly functioning tertiary treatment, failure to comply with effluent discharge limits, and unpermitted bypass discharges during rain events.

The gravity sewer parallel along Blake Street is failing, and the depth of the sewer makes it difficult to perform investigation, maintenance, or repairs.

DEFICIENCIES/COMMENTS

- Public participation has not yet taken place.
- The PER will need to be developed into a facilities plan that meets CWSRF requirements if CWSRF is used.
- Using the Combined Application, the Engineering Fees appear to be within the ASCE curve.

Preliminary Project Ratings:

Public Health Benefits: 10
Compliance with Standards: 20