



west virginia department of environmental protection

Division of Water and Waste Management
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Harold D. Ward, Cabinet Secretary
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MEMORANDUM

TO: Katheryn Emery P. E., Acting Director, DWWM

FROM: Cali Carter, E.I., DWWM

DATE: April 16, 2021

SUBJECT: Kanawha PSD - Lens Creek Sewer Extension Project - Phase I
Scope and Funding Change
IJDC No. 2016S-1625

RECOMMENDATION

The request for additional funding and change in scope prepared by S&S Engineers for the above referenced project has been reviewed and is technically feasible.

PROJECT DESCRIPTION

The proposed project will provide sewer service to 281 new customers in Kanawha County, serving the communities in the Lens Creek area on Route 94 toward the Boone County line.

Since the preliminary application was reviewed, cost estimates have been updated. Due to unstable material prices and bids caused by the COVID-19 pandemic, the committed funding was determined inadequate in the current market. The project will now include 5,000 Linear Feet (LF) of additional gravity sewer line which will serve 60 customers. The engineer's construction cost estimate has increased \$2,325,000 due to this addition and the rising cost of materials related to the COVID-19 pandemic.

The revised total cost for this project is \$10,200,000 and the PSD intends to pursue an additional \$2,325,000 WV IJDC Loan (1%, 40 yrs.) in addition to the previously committed funding scenario. The committed funds include a \$2,575,000 IJDC Loan, \$875,000 IJDC Grant, \$125,000 IJDC Soft Cost Grant, \$1,000,000 US Corps of Engineers Development Grant, \$1,075,000 US Corps of Engineers Construction Grant, \$1,975,000 USDA Grant, and a \$250,000 USDA Loan. The revised WV IJDC Loan total is \$4,900,000. The proposed monthly rate for 3,400 gallons is \$60.00 (1.97% MHI).

Promoting a healthy environment.

NEED FOR PROJECT

The potential customers currently dispose their sewage through failing home treatment units, and straight-pipe discharge to ditches which are contaminating the soil and ultimately making its way into Lens Creek. A 1994 Wastewater Survey Report conducted by the Kanawha-Charleston Health Department indicated that 87% of the homes and businesses were improperly discharging untreated sewage into roadside ditches and culverts. A follow-up letter, dated 2/23/2010 from the Kanawha-Charleston Health Department to Kanawha PSD's Consulting Engineer, further indicated that conditions have not improved and may have worsened. Replacing the failing systems with modern sewer collection and conventional wastewater treatment will eliminate the fecal coliform contamination to that area and stream, thus, protecting the health and welfare of the residents and the environmental integrity of Lens Creek.

COMMENTS/DEFICIENCIES

- The district held a special meeting on April 1, 2021 to discuss rates and customer count. The rate increase will be negligible with the addition of the 60 new customers.
- The additional 60 customers are a part of the original project area but were to be served in Phase II of this project.
- Budget increase is accountable to construction costs only.

Engineering Design Fee

Estimated construction cost =	\$6,250,915
Consultant's design fee =	\$ 275,000
Consultant's total fee =	\$ 755,000
Design fee percentage =	4.4 %
Design fee per ASCE curve =	7 %
Total fee percentage =	12.1%
Total fee per ASCE curve =	14%

Preliminary Project Ratings

Public Health Benefits: 20

Compliance with Standards: 5