

Issue Analysis Form



Date: November 22, 2022

Item: Award of Contract –Engineering Services for Blackwater Regional Pump Station and force main

Lead Department(s): Engineering & Utilities

Contact Person(s): Frank Haltom

Description and Current Status

The wastewater conveyance system that serves the Southpoint Business Park and Route 460 corridor has no remaining capacity to serve the expected growth in the area. Based on the 2016 Water and Wastewater Master Plan, the estimated average daily wastewater flow to the Route 460 location is projected to increase to more than 4 MGD by 2045. The Master Plan and the Southpoint Utility Study identified possible solutions to address wastewater capacity to allow for future growth. The Blackwater regional pump station project was the solution chosen and will include a 30-inch gravity interceptor in the park that will discharge flow to a 3.25 MGD (expandable to 6.5 MGD) pump station. The project will also include a force main from the pump station to convey flow north where it would discharge to the City of Hopewell's influent force main.

The County has received a proposal from WW Associates, for the evaluation, design, permitting and construction administration of the Blackwater Regional Pumping Station for \$2,037,500. An appropriation is required to cover the costs of these services. \$1,858,910 was budgeted in the Utility Debt Fund (0620) in FY2023 as principal and interest debt payments for Series 2023 bonds, however, we will not complete the borrowing until the fall of 2023, and no principal and interest payments will be made in FY2023. The remaining \$178,590 is available from Utilities Cash Reserves (Fund Balance).

This project will be completed utilizing the Annual Engineering Services Contract. Individual awards for specific projects in excess of \$50,000 require Board approval. Staff recommends an award of contract for the engineering services to construct the Blackwater Regional Pump Station project to WW Associates for \$2,037,500. Staff also recommends the appropriation of funds from the Utility Debt Fund (\$1,858,910) and Utility Cash Reserves (\$178,590) totaling \$2,037,500 to fund the costs of these services.

ARPA Funds will be used for construction when awarded.

Sample Motion: I move the Board approve the resolution to award the contract for the evaluation, design, permitting and construction administration of the Blackwater Regional Pump Station project to WW Associates for \$2,037,500; and the appropriation of \$1,858,910 from the Utility Debt Fund and \$178,590 from Utility Cash Reserves (Fund Balance) totaling \$2,037,500 to fund the costs of these services.

Government Path

- Does this require IDA action? Yes No
- Does this require BZA action? Yes No
- Does This require Planning Commission Action? Yes No
- Does this require Board of Supervisors action? Yes No
- Does this require a public hearing? Yes No
- If so, before what date?

Fiscal Impact Statement

A budget transfer within the Utility Debt fund of \$1,858,910 is proposed and the use of \$178,590 in Utility Cash Reserves (fund balance) to cover the costs of these services. The following increase of funds within the 2022-2023 Budget will increase as follow:

<u>FUND/ORGANIZATION</u>	<u>AMOUNT</u>
Utilities Fund	
Expenditures:	
0620-04-104-7016-43101	Utilities Capital Projects – Engineering Svcs \$2,037,500
0620-04-104-7004-49352	*Utilities Series 2023 Principal Payment (430,110)
0620-04-104-7004-49353	*Utilities Series 2023 Interest Payment (1,428,800)
Revenues:	
0620-40-900-8208-399999	Utilities Fund, Fund Balance \$178,590

*Borrowing will not occur until Fall of 2023 and the County will not make debt payments as budgeted in FY2023.

County Impact

Award of this contract will provide the engineering design services for the construction of the new regional wastewater pumping station to allow additional wastewater capacity for the Southpoint Business Park and Route 460 corridor.

Notes

None.

Board of Supervisors
County of Prince George, Virginia

Resolution

At a regular meeting of the Board of Supervisors of the County of Prince George held in the Boardroom, Third Floor, County Administration Building, 6602 Courts Drive, Prince George, Virginia, this 22nd day of November, 2022:

Present:

Marlene J. Waymack, Chair
Donald Hunter, Vice Chair
Floyd M. Brown, Jr.
Alan R. Carmichael
T. J. Webb

Vote:

A-7

On motion of _____, seconded by _____, which carried by a vote of _____ in favor and _____ opposed, the following Resolution was adopted:

RESOLUTION: AWARD OF CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES FOR THE EVALUATION, DESIGN, PERMITTING AND CONSTRUCTION ADMINISTRATION OF THE BLACKWATER REGIONAL PUMP STATION PROJECT.

WHEREAS, the County desires to increase the wastewater capacity that serves the Southpoint Business Park and Route 460 corridor for future growth; and

WHEREAS, the County has received a proposal from WW Associates, for the evaluation, design, permitting and construction administration of the Blackwater Regional Pump Station project for \$2,037,500.

NOW, THEREFORE BE IT RESOLVED: that the Board of Supervisors of the County of Prince George this 22nd day of November, 2022, hereby awards the contract for the evaluation, design, permitting and construction administration of the Blackwater Regional Pump Station project to WW Associates for \$2,037,500.

NOW, THEREFORE BE IT FURTHER RESOLVED: that the Board of Supervisors of the County of Prince George this 22nd day of November, 2022, does hereby authorize and appropriate the following increase of funds within the 2022-2023 Budget, such line items increased as follows, which monies shall be expended for purposes authorized and approved by the Board of Supervisors of the County of Prince George:

FUND/ORGANIZATION

AMOUNT

Utilities Fund

Expenditures:

0620-04-104-7016-43101	Utilities Capital Project Engineering Services	\$2,037,500
0620-04-104-7004-49352	Utilities Series 2023 Principal Payment	(\$430,110)
0620-04-104-7004-49353	Utilities Series 2023 Interest Payment	(\$1,428,800)

Revenues:

0620-40-900-8208-399999	Utilities Fund, Fund Balance	\$178,590
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A Copy Teste:

Jeffrey D. Stoke
County Administrator



October 24, 2022

Mr. Frank Haltom, P.E.
Director of Engineering & Utilities
Prince George County
P.O. Box 68
Prince George, VA 23875

Re: Fee Proposal for Blackwater Swamp Interceptor, Wastewater Pump Station, and Force Main

Dear Mr. Haltom:

We are pleased to submit this engineering fee proposal to provide engineering services for the referenced project. We propose to provide these services based on the scope listed in the attached document and as described herein.

We understand the project consists of the following elements:

- Blackwater Interceptor to PS 021 – 16,000 ft of, 30 inch and 36 inch interceptor
- PS 001, PS 002, and PS 003 interceptor – 8,670 ft of 12 inch interceptor
- Wastewater Pump Station – 3.25 MGD expandable to 6.5 MGD
- 20-inch Force Main – 51,000 linear feet

We estimate the construction cost for the above listed scope as follows:

<u>Description</u>	<u>Estimated Construction Cost</u>
Blackwater Interceptor	\$ 9.0 mil
Wastewater Pump Station	\$ 4.0 mil
Force Main	<u>\$ 11.7 mil</u>
Total ECC	\$ 24.7 mil

We propose to provide these engineering services in accordance with the following fee schedule:

<u>Task</u>	<u>Lump Sum Fee</u>
Basis of Design Report	\$ 75,000
Design Phase	\$ 1,612,500

P.O. Box 4119 ▪ Lynchburg, VA 24502
Telephone (434) 316-6080 ▪ Fax (434) 316-6081
Lynchburg ▪ Charlottesville

Geotechnical Services	\$ 15,000
Construction Administration	\$ 300,000
Wetland Delineation	<u>\$ 35,000</u>
Total	\$ 2,037,500

This proposal is based on the following considerations:

1. This proposal includes submission of stormwater management plans for the pump station site as well as the interceptor and force main routes.
2. This proposal is based on connecting new interceptor to PS 021, PS 001, and PS 002, and PS 003.
3. This proposal includes connection to the Hopewell WWTP.
4. Basis of Design Report includes a route selection analysis.
5. Wetland delineation is for the pump station and piping routes.
6. Design Fees include geotechnical foundation analysis on the pump station site.
7. This proposal includes preparation of easement plats needed for the project.
8. Construction inspection services may be provided under separate proposal, if needed.

Invoicing for services will be monthly based upon our estimate of percent completion. Payment for these services will be within 30 calendar days from the time the bill is issued by WW Associates, Inc. We are available to proceed immediately with this project.

We look forward to the opportunity to work with you on this most significant project! Should this proposal be deemed acceptable, please issue a purchase order which will be considered our Notice to Proceed.

Sincerely,

WW Associates, Inc.



Herbert F. White, III, P.E.
President