

# Issue Analysis Form

Date: June 23, 2020

Item: Options to Address Future Sewer Capacity

Lead Department: Engineering & Utilities

Contact Persons: Frank Haltom, Director



## Description and Current Status

The wastewater collection system that serves the Southpoint Business Park and the Route 460 corridor is approaching full capacity. In 2018, the Southpoint Utility Study was completed to evaluate the options to provide an additional 2 MGD of wastewater capacity at the Park. Factors including capital cost, life cycle cost, operational considerations, regulatory limitations, constructability, future needs of the County, and overall benefit to the Southpoint Business Park were investigated for each alternative.

The study resulted in two viable options:

1. Construct a County-owned wastewater treatment plant (WWTP); or
2. Construct a conveyance system to pump wastewater to the City of Hopewell.

Dewberry recommended the construction of the WWTP primarily due to the significantly lower life cycle cost.

<i>Alternative</i>	<b>Total Construction</b>	<b>Operational Cost PW (1.5 MGD, 20 years)</b>	<b>Total Life Cycle Cost</b>
<i>Convey Wastewater to Hopewell</i>	\$37,607,791	\$52,658,759	\$90,266,550
<i>County WWTP</i>	\$41,954,000	\$13,479,568	\$55,433,568

As seen above, the operational cost to convey to Hopewell is significantly greater, primarily due to the wastewater treatment fees the County would be required to pay.

## The 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

### Board Action Requested:

Receive the report for the Board's consideration and authorize staff to begin a preliminary engineering report for a future treatment plant or new conveyance system to Hopewell.

## Fiscal Impact Statement

Should the Board desire to address the capacity needs for future development, new wastewater infrastructure will be required. Planning and engineering should begin in the immediate future to ensure capacity is available for the growth of the business park. A preliminary engineering report to build a new pipeline to Hopewell or build a wastewater treatment plant could cost up to \$150,000.

### **Prince George County Impact**

The continued development along the Route 460 corridor is using the limited wastewater capacity available. Development of the park may be limited if capacity is not available.

### **Notes**

None.