

## Legislation Details (With Text)

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**On agenda:** 1/22/2018      **Final action:** 1/22/2018

**Title:** McDowell Basin Interceptor Improvements Phase II: Professional Engineering Services

**Attachments:** 1. McDowell Creek Basin Map

Date	Ver.	Action By	Action	Result
1/22/2018	1	City Council Business Meeting	Approve	Pass

## McDowell Basin Interceptor Improvements Phase II: Professional Engineering Services

### Action:

**Approve a contract in the amount of \$2,727,227 with Black & Veatch International Company for the McDowell Basin Sanitary Sewer Improvements Project Phase II: Professional Engineering and Bid Phase Services.**

### **Staff Resource(s):**

Angela Lee, Charlotte Water  
Ron Hargrove, Charlotte Water

### **Explanation**

- Charlotte Water operates and maintains more than 4,200 miles of sanitary sewer lines throughout their service area.
- Basin studies are conducted to identify and prioritize improvements resulting from current and future wastewater needs. These studies are also used to evaluate existing sewer infrastructure conditions and any necessary repairs.
- The McDowell basin encompasses northwest Mecklenburg County and the towns of Huntersville and Cornelius, and is one of the major sewer basins in the area.
- The McDowell basin was identified as having limited capacity to handle peak sewer flows resulting from growth in the basin and wet-weather flow conditions.
- On February 22, 2016, the City issued a Request for Qualifications (RFQ) for the McDowell Basin Interceptor Improvements. In response to the RFQ, the City received five proposals from interested professional service providers. The RFQ included two phases:
  1. A basin study to identify any improvements needed over the next 20 years, and
  2. Detailed design, bid phase, and engineering construction services.
- Black & Veatch International Company was selected as the best qualified firm to meet the City's needs on the basis of demonstrated competence and qualification of professional services in response to the RFQ requirements.
- A contract for Phase I was awarded by City Council on June 13, 2016.
- Based on growth within the basin, the Phase I study identified critical projects required to be

completed within the next three years, in order to prevent possible future sanitary sewer overflows.

- The identified projects include replacing a sanitary sewer lift station and 11,500 feet of 16-inch force main, as well as installing approximately 30,000 linear feet of new gravity sewer ranging between 24-inch to 60-inch.
- This contract will include engineering design and bid phase services for these projects.
- Construction contracts are anticipated for Council consideration in the second quarter of 2020.

### **Charlotte Business INClusion**

The City negotiates subcontracting participation after the proposal selection process (Part C: Section 2.1(h) of the Charlotte Business INClusion Policy). Black & Veatch International Company has committed 20.25% (\$552,220) of the total contract amount to the following certified firms:

- CES Group Engineers, LLP (SBE, WBE) (\$286,000) (survey and easement mapping services)
- Gavel & Dorn Engineering, PLLC (SBE) (\$109,120) (geotechnical subsurface services)
- Carolina Wetland Services, Inc. (SBE, WBE) (\$94,800) (wetland delineation)
- Avioimage Mapping Services, Inc. (SBE) (\$62,300) (aerial photography)

### **Fiscal Note**

Funding: Charlotte Water Community Investment Plan

### **Attachment(s)**

Map