



## Legislation Text

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File #: 15-9380, Version: 1

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### **McAlpine Creek Wastewater Treatment Plant Nutrient Harvesting Public-Private Partnership**

#### **Action:**

- A. Adopt a resolution identifying a critical need for a capital improvement project that provides for the removal and reuse of phosphorus, and**
- B. Authorize the use of the public-private partnership contracting method to provide the capital improvement project.**

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

Angela Lee, Charlotte Water  
Ron Hargrove, Charlotte Water  
Carl Wilson, Charlotte Water

#### **Explanation**

- Charlotte Water is seeking to enter into a Public-Private Partnership (P3) to implement a nutrient harvesting facility to recover phosphorus from wastewater for use as fertilizer.
- Removal of phosphorus is a critical need at the wastewater treatment plant, is regulated by permit, and aligns with the city's circular economy initiatives.
- Utilizing the P3 construction contracting method mitigates the risks and shifts the responsibility to the third party, allowing Charlotte Water to focus on providing core services.
- In order for Charlotte Water to utilize a P3 construction contracting method, Council must adopt the attached resolution as required by North Carolina General Statute 143-128.1C.
- In 2011, Charlotte Water conducted a pilot for a phosphorus removal process at the McAlpine Creek Wastewater Treatment Plant, in the Town of Pineville (adjacent to Council District 7).
- In 2013, the biosolids master plan recommended phosphorus be beneficially reused as a fertilizer.
- Future Council approval for the contract with the selected P3 vendor will be required.

#### **Charlotte Business INclusion**

The city negotiates MWSBE goals on Public-Private Partnerships (P3) after the scopes of work are defined (Part G: Section 2.7 of the Charlotte Business INclusion Policy).

#### **Fiscal Note**

Funding: Not applicable

#### **Attachment(s)**

Map  
Resolution