



Legislation Details (With Text)

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|----------------------|--|----------------------|-------------------------------|--------------|--|
| File #: | 15-2294 | Version: | 1 | Name: | |
| Type: | Consent Item | Status: | Approved | | |
| File created: | 1/11/2016 | In control: | City Council Business Meeting | | |
| On agenda: | 2/22/2016 | Final action: | 2/22/2016 | | |
| Title: | McAlpine Creek Wastewater Treatment Plant Combined Heat and Power Improvements | | | | |
| Attachments: | 1. McAlpine Creek WWMF | | | | |

| Date | Ver. | Action By | Action | Result |
|-----------|------|-------------------------------|---------|--------|
| 2/22/2016 | 1 | City Council Business Meeting | Approve | Pass |

McAlpine Creek Wastewater Treatment Plant Combined Heat and Power Improvements

Action:

Award a contract in the amount of \$3,066,000 to the lowest responsive bidder State Utility Contractors, Inc. for the Combined Heat and Power Improvements at the McAlpine Creek Wastewater Treatment Plant.

Staff Resource(s):

Barry Shearin, Charlotte Water

Explanation

- The wastewater treatment process creates biogas that is approximately 60% methane. Currently the biogas is being used for digester heating and the excess is burned off.
- The project will change the process by burning the biogas in a specialized engine that will run a generator producing power, and heat off of the engine will be used for heating the digesters.
- The engine will produce close to 8,760 kW-hours, off-setting about one-sixth of the plant power energy use and save approximately \$350,000 in power costs annually, leading to a 10-year project payback from savings.
- On December 22, 2015, the City issued an Invitation to Bid for Combined Heat and Power Improvements at the McAlpine Creek Wastewater Treatment Plant; four bids were received from interested service providers.
- State Utility Contractors, Inc. was selected as the lowest responsive, responsible bidder.
- The project is anticipated to be completed in one year.
- The total project cost is approximately \$4.5 million, including design and purchase of the generator.
- The project will be partially-funded by the Clean Water State Revolving Fund loan approved by City Council on June 22, 2015.

Disadvantaged Business Enterprise (MBE/WBE) Opportunity

Goals were established per the North Carolina Clean Water State Revolving Fund loan program guidelines.

Established MBE Goal: 10.9%

Committed MBE Goal: 4.97%

Established WBE Goal: 10.4%
Committed WBE Goal: 2.47%

State Utility Contractors, Inc. has committed 7.45% (\$228,380) of the total contract amount to the following certified firms:

- CITI, LLC (MBE) (\$152,500) (instrumentation)
- Dover Insulation (WBE) (\$57,380) (pipe insulation)
- CICA, Inc. (WBE) (\$10,500) (painting)
- Oliver Paving (SBE, WBE) (\$8,000) (paving)

State Utility Contractors, Inc. failed to meet the established subcontracting goals, but has earned the required Good Faith Efforts based on the Disadvantaged Business Enterprise program requirements.

Fiscal Note

Funding: Charlotte Water Community Investment Plan

Attachment

Map