THE CITY OF ASHEVILLE

Staff Report

Council Meeting Date: October 25, 2022

Subject: Professional Services Contract with CDM Smith for North Fork & Wm. DeBruhl Treatment Study and Plant Improvements

Staff Resource(s): David Melton, Director of Water Resources
Leslie Carreiro, Assistant Director of Water Resources

Action Requested: Adoption of a resolution authorizing the City Manager to execute a professional services - supplemental agreement with CDM Smith for the North Fork & Wm. DeBruhl Treatment Study and Plant Improvements; and the associated budget amendment in the amount of $400,000 to accept grant funding from the NC Department of Environmental Quality - Division of Water Infrastructure.

Background:

- Climate change has produced unusual effects (changes in pH, turbidity, temperature, and alkalinity) on the quality of raw water available at both the Burnett and Bee Tree Reservoirs.
- Changes in raw water quality can happen quickly during significant weather events.
- The NC Public Water Supply has encouraged all direct filter treatment plants to investigate improvements that would help meet EPA and State Dept. of Environmental Quality rules and regulations. (See Exhibit A)
- North Fork and Wm. DeBruhl are both direct filtration water treatment plants.

Vendor Outreach Efforts:

- Through a qualifications based selection process beginning on May 18, 2020 the City of Asheville selected 5 consulting firms to provide on-call professional services for an array of different types of water system Water Plant Projects.
- CDM Smith was one of the selected firms due to their expertise in areas of water treatment plant construction and upgrades.
- The City of Asheville entered into a master agreement with CDM Smith on September 4, 2020 for on-call professional services valid for three years with the option to renew for two additional years.
- City of Asheville Water Resources Staff determined that utilizing the on-call professional services for Water Treatment Plant projects was the best method to deliver this project and CDM Smith was the most qualified of the on-call firms.
- If approved, the proposed engineering services described here within will be developed into a supplemental contract under the conditions of the master agreement. (See Exhibit B)

Council Goal(s):

- Improve Core Services

Committee(s):

- n/a

Pro(s):

- The study will provide guidance on further optimizing current techniques for the treatment process.
- The study will provide guidance documents to assist staff with real-time decision making when raw water quality is low.

- The study will investigate treatment alternatives and recommend two for further consideration and pilot-study.
- All data, recommendations, and guidance would assist the plants in achieving future State and EPA regulations.

Con(s):
- Without conducting this study, the City / Water Resources risks having to temporarily close a treatment plant during significant low raw water quality.
- Limiting production due to significant low raw water quality may require mandatory water conservation measures for our customers.

Fiscal Impact:
- The cost of the study, estimated to be $407,695, will primarily be funded via a grant awarded by NCDEQ-Division of Water Infrastructure (utilizing state ARPA funds).
- Grant funding totals $400,000, and the remaining $7,695 has been identified within the current Water Resources capital budget.

Suggested Motion:
- Motion to adopt a resolution authorizing the City Manager to execute a professional services - supplemental agreement with CDM Smith for the North Fork & Wm. DeBruhl Treatment Study and Plant Improvements; and the associated budget amendment.

Attachment(s)
- Exhibit A - Letter
- Exhibit B - Scope
- Resolution
- Budget Amendment

RESOLUTION NO. 22-____

RESOLUTION AUTHORIZING THE CITY MANAGER TO EXECUTE A CONTRACT WITH PROFESSIONAL SERVICES CONTRACT WITH CDM SMITH FOR THE NORTH FORK & WM. DEBRUHL TREATMENT STUDY AND PLANT IMPROVEMENTS

WHEREAS, pursuant to N.C.G.S. § 160A-312, the City of Asheville has authority to operate a public enterprise; and

WHEREAS, pursuant to N.C.G.S. § 160A-20.1, the City of Asheville may enter into contracts with private entities to carry out any public purpose the City is authorized to engage in; and

WHEREAS, CDM Smith was one of five firms selected by Staff via a qualifications based process to perform on-call professional services for Water Treatment Plant Projects; and

WHEREAS, the City of Asheville entered into a Master Agreement with CDM Smith, on September 4, 2020 for On-Call Professional Services for the Water Treatment Plant Projects; and

WHEREAS, professional Services Contract with CDM Smith for the North Fork & Wm. DeBruhl Treatment Study and Plant Improvements; and

WHEREAS, the use of, CDM Smith will utilize the most qualified firm to ensure timely completion and fulfill compliance with scope of services for the North Fork & Wm. DeBruhl Treatment Study and Plant Improvements;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ASHEVILLE THAT:

The City Manager, on behalf of the City of Asheville, is hereby authorized to execute the contract with CDM Smith for the North Fork & Wm. DeBruhl Treatment Study and Plant Improvements for data collection & review, water quality analysis, and recommendations for the amount of $407,695.00 with a reimbursement for $400,000.00 from the NC Department of Environmental Quality - Division of Water Infrastructure ARPA grant for a total project cost for the City of $7,695.

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Read, approved, and adopted this 25th day of October, 2022.

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City Clerk Mayor

Approved as to form:

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City Attorney

ORDINANCE NO. _____

BUDGET ORDINANCE AMENDMENT

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF ASHEVILLE

That Section 2 of the City of Asheville Annual Operating Budget Ordinance be amended to provide an appropriation of $400,000 to accept grant funding from NCDEQ-Division of Water Infrastructure as follows:

WATER CAPITAL PROJECTS FUND

Revenues:

Restricted Intergovernmental Revenue	$400,000

Appropriations:

Professional Services	$400,000

That this ordinance shall be in full force and effect upon the date of final passage.

Read, approved and adopted this 25th day of October, 2022.

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City Clerk Mayor

Approved as to form:

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City Attorney