



CITY OF DURHAM | NORTH CAROLINA

**Date:** December 20, 2010

**To:** Thomas J. Bonfield, City Manager

**Through:** Theodore L. Voorhees, Deputy City Manager  
Donald F. Greeley, Director, Water Management

**From:** Thomas A. Bastable, Civil Engineer III

**Subject:** Contract for Peer Review of Water Reclamation Facilities Master Plans Project

### **Executive Summary**

This contract provides for professional engineering consulting services for a peer review of the Water Reclamation Facilities Master Plans Project. This project will include a 2030 Master Site Plan for the North Durham Water Reclamation Facility (NDWRF) and the South Durham Water Reclamation Facility (SDWRF) and improvements at both water reclamation facilities. The scope of services includes review and input into the development of current and future capacity, and the components of the master site plan facility expansions and upgrades.

The Department of Water Management issued a Request for Proposals (RFP) for engineering services to develop master site plans for each of the WRFs and design improvements necessary to meet existing and future facility needs and regulations. On August 16, 2010, the City Council approved the selection of Hazen and Sawyer to perform the Water Reclamation Facilities Master Plans Project for \$ 2,341,081.00. Due to the size and complexity of this project, it is determined to be advantageous to have a peer review of the work. The engineering firm of Camp Dresser & McKee was selected for peer review and a contract negotiated for a services contract as a peer reviewer for a total amount not to exceed \$62,930.00. These funds are available in the current Capital Improvement Program (CIP) fund.

### **Recommendation**

The Department of Water Management recommends that the City Council:

1. Authorize the City Manager to execute a contract with Camp Dresser & McKee for engineering services for a peer review of the Water Reclamation Facilities Master Plans Project in the total amount not to exceed \$62,930.00; and
2. Authorize establishment of a contingency fund for the contract of \$5,000.00; and

3. Authorize the City Manager to negotiate change orders for the contract provided that the cost of all change orders does not exceed \$5,000.00 and the total project cost does not exceed \$67,930.00.

### **Background**

The City's existing water reclamation facilities, North Durham WRF and South Durham WRF, were built and have been modified over the years to treat wastewater according to regulatory requirements. Significant new regulations have been promulgated and will be promulgated to address compliance with the nutrient management strategies for Falls Lake and Jordan Lake. These rules will require additional upgrades to both facilities. The department anticipates having the construction of these new facilities in place prior to the compliance date in order to have time to optimize our wastewater treatment operations by the compliance deadline. In addition to the immediate challenges of complying with the upcoming rules, the treatment facilities must plan for future needs to insure there is a smooth development of the sites for future treatment components.

The Water Reclamation Facilities Master Plans project has been included in the Capital Improvements Plan. The peer review engineering services for this project include:

- Attend the kickoff meeting.
- Review and comment on nine technical memoranda.
- Attend and participate in three workshops.

### **Issues/Analysis**

In order to select a contractor to perform the water reclamation facilities master plan services, a RFP was prepared, advertised and sent to a list of potentially qualified bidders. Responses were received from the following firms:

Black and Veatch, Inc.  
Camp Dresser and McKee  
Hazen and Sawyer, PC.

The selection panel for this project had members from the Finance Department, the Equal Opportunity/Equity Assurance Department and the Department of Water Management. The panel selected all three qualified firms to make formal presentations. After the formal presentations, the panel selected the firm of Hazen and Sawyer, P.C. to perform this work. In addition the panel recommended Camp Dresser & McKee as a peer reviewer based on their team's extensive experience in certain components of the master planning project process.

### **Alternatives**

Not moving ahead with the project. – Due to the size, complexity and long term impacts of this project this is an opportunity to have the most qualified staff of another firm review and recommend suggestions on the master plans as the plans are developed.

**Financial Impacts**

This project is funded in the CIP as follows:

| CIP Project      | Account               | Amount      |
|------------------|-----------------------|-------------|
| WRF Master Plans | 4100P767-731003-P251C | \$62,930.00 |
| WRF Master Plans | 4100P767-731900-P251C | \$ 5,000.00 |

**SDBE Summary**

The Equal Opportunity/Equity Assurance Department reviewed the proposal submitted by Camp Dresser & McKee of Raleigh, North Carolina to determine compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting. It was determined that Camp Dresser & McKee is in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting.

**SDBE REQUIREMENTS**

There are no M/SDBE or WSDBE goals.

**WORKFORCE STATISTICS**

Workforce statistics for Camp Dresser & Mckee are as follows:

|                 |    |       |
|-----------------|----|-------|
| Total Workforce | 60 |       |
| Total Females   | 18 | (30%) |
| Total Males     | 42 | (70%) |
| Black Males     | 2  | (3%)  |
| White Males     | 35 | (59%) |
| Other Males     | 5  | (8%)  |
| Black Females   | 3  | (5%)  |
| White Females   | 13 | (22%) |
| Other Females   | 2  | (3%)  |