

April 30, 2018  
W-P Project No. T11797

Mr. Raymond Drew, Administrator  
City of Torrington WPCA  
140 Main Street  
Torrington, CT 06790-5245

Subject: Torrington WPCF Facility Upgrade - Proposal for Wastewater Asset Evaluation

Dear Ray,

It is our understanding that the Water Pollution Control Authority (WPCA) would like to determine the current value of the City's wastewater assets. The WPCA is responsible for maintaining the wastewater collection, transport and treatment system components.

Some of Torrington's sewer segments predate 1900s and are as old as 1888; approximately 650 segments are older than 100 years old – all of which are still in use today. The age of the pumping stations varies as they were constructed as the collection system evolved over the years. There are structures and tanks in operation at the WPCF constructed as early as the 1930's, during the upgrade to secondary treatment in the late 1960's, or from the last comprehensive upgrade in the early 1990's.

The collection system has been divided into 5 drainage basins and is comprised of over 154 miles of gravity sewers that, along with 14 pump stations and over 6 miles of force main, transport wastewater to the Water Pollution Control Facility (WPCF) for treatment. The gravity portion of the system includes large diameter interceptors and several siphons.

## **SCOPE OF SERVICES**

Wright-Pierce proposes to perform an evaluation of the general value of the wastewater assets owned by the City of Torrington. The following tasks have been identified to help us determine the values; this will include some input from Torrington WPCF staff.

1. Meetings: one with City Staff and one internal.
2. Develop inventory of existing data, as follows:
  - a. Collection System Infrastructure: Data previously collected for the CMOM task will be obtained from the Wright-Pierce GIS database. For segments that it is available, the data will include the length and type of pipe and depth of construction. The age of each segment will be used to approximate the existing condition of the sewer. Where the information is not available, W-P will estimate along with input for Torrington staff.
  - b. Transportation Infrastructure: Force main data will be collected like the method outlined for the Collection System. For the pumping stations, the Facility Plan will be reviewed to outline



in-house information for each pump station. As needed, the as-built drawings will be obtained and reviewed to determine any supplemental information. We have set aside two days to visit each pumping station to observe and provide a cursory determination of the condition of the components at each station.

- c. Treatment Infrastructure: We will utilize information from the design of the Comprehensive Upgrade to outline an inventory, and assess condition, of the existing WPCF infrastructure. Pictures and Record Drawings will be utilized as necessary for areas not included in the design. We will visit the site to evaluate the condition of existing components not included in the design project.
3. The current value of the existing infrastructure will generally be determined as follows:
  - a. Collection System Infrastructure: We will use current cost metrics to estimate the cost to replace the existing sewers. The age of the pipe will be used to approximate the remaining useful life of the sewer. These cost and age values will be used to develop our opinion of the current value of each sewer segment.
  - b. Transportation Infrastructure: The existing condition of the transportation inventory will be used to estimate useful life remaining. Like the above, the current cost to replace each item will be used in conjunction with the remaining life to develop our opinion of the the depreciated value.
  - c. Treatment Infrastructure: The value of the existing WPCF will be estimated based on age of the infrastructure and current costs to replace, like the above. We will not include any proposed work anticipated to occur with the upgrade project at this time.
4. Develop draft summary memo outlining existing assets, approach taken to determine the current value and providing a current value of each component of the wastewater system.
5. Meet with the WPCA staff to review draft memo and obtain comments. Finalize summary memo and incorporate WPCA comments as appropriate.

#### PROPOSED FEE

We anticipate being able to complete this work at a not-to-exceed fee of \$15,700. This fee includes our time and all reimbursable expenses. Services will be as an Amendment to our existing Contract. Any additional services that may be requested by you will be provided on a time and expense basis. Upon acceptance of this proposal we will prepare the Amendment.

Thank you for considering Wright-Pierce for this assignment. We are prepared to work on these tasks immediately. If you have any further questions, please do not hesitate to call either Chris Pierce or me.

Sincerely,  
WRIGHT-PIERCE

Christine Kurtz, PE

Senior Project Manager

Christine.kurtz@wright-pierce.com

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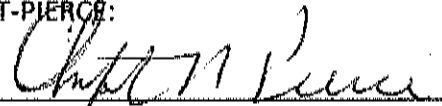
CLIENT:

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date \_\_\_\_\_

WRIGHT-PIERCE:

By:   
Christopher N. Pierce, PE

Title: Senior Vice President

Date April 30, 2018