



WATERFORD UTILITY COMMISSION

DATE: March 11, 2025

PLACE: 1000 Hartford Turnpike

PRESIDING: Acting Chairman Ray Valentini

MEMBERS PRESENT: Tom Dembek and Jerry Porter

ABSENT MEMBERS: Ken Kirkman and Rodney Pinkham

ALSO PRESENT: Attorney Nicholas Kepple, Town Counsel

Staff: Jill Stevens, Director of Utilities
Shawn Matthews, Assistant Director of Utilities

Chairman Kirkman called the meeting to order at 6:01 pm

CITIZEN SESSION-

None

SECRETARY'S REPORT

MOTION Made by Mr. Porter to approve the Amended Minutes of February 11, 2025, Mr. Dembek seconded.

VOTE The motion passed unanimously.

BILLING ADJUSTMENTS

The Commission reviewed the February adjustments. The adjustment report will be kept in the office for review.

EXPENDITURES

MOTION Made by Mr. Dembek to approve the February 2025 bill list, Mr. Porter seconded.

VOTE The motion passed unanimously.

OLD BUSINESS

- Director's Report
Ms. Stevens reviewed her report that provides updated information on all Utility Commission Capital and Operational projects that are currently funded and the status of

March 11, 2025

each project. A copy of the Director's Report will be attached to the minutes when posted.

- Collection's Report
Report was reviewed and Attorney Kepple reported that all is going well.
- Financial Report
The financials for January were reviewed.

NEW BUSINESS

Water Agreement Working Group Update

Attorney Kepple and Ms. Stevens gave an update and recapped how the group was reclassified as a working group and not a committee. The next meeting for this group is March 25th.

Legal Fees

Attorney Kepple reported that the Town has decided that beginning in July 2025 that the Waterford Commission Utility will be responsible to pay for their wastewater related legal fees out of the Enterprise fund.

WATER

City of New London/Veolia Report.

The report was reviewed by the Commission.

CORRESPONDENCE

A letter from City of New London was sent requesting a meeting regarding the sewer capacity at the treatment plant. A meeting date will be set in the near future the Town and City are working together to find a date and time that accommodates all parties schedules.

PLANS REVIEW –

None

PERSONNEL

- Sewer Tech I
The position has been filled, the new hire will start on March 26th.

ADJOURNMENT

With no further business before the Commission, the meeting adjourned at 7:24 p.m.

MOTION Made by Mr. Dembek to adjourn, Mr. Porter seconded.

VOTE The motion passed unanimously.

Respectfully submitted,

Amy Windle

Waterford Utility Commission
March 11, 2025

Recording Secretary



WATERFORD UTILITY COMMISSION

Director's Report

March 11, 2025

This report summarizes the Commission's ongoing projects and operational activities as of 3/11/25

Current Capital and Capital Non-Recurring Funded Projects

1. Inflow and Infiltration Mitigation and Control

FY 19 Capital & Non-Recurring Expenditure Fund L.I. #20531-57685

Original Appropriation: \$388,303.00 Available Balance: \$237,214.39

This is an ongoing project. To identify sources of Inflow and Infiltration within the Richards Grove Sewer Basin. A draft report was emailed on October 30, 2024 for review and comment, staff reviewed and issued comments back to Wright Pierce to address within the report. As of 3/11/2025 Wright Pierce with continued assistance with Waterford continues to review billing data as well as flow metering data previously collected by rental units. Waterford has received their flow meters back from calibration. Flow meter data will be used to determine next location for flow meters. Field data and video review and QA/QC will be completed by Friday, September 13, 2024 with a target date of September 27th for the draft report. No major manhole defects were noted. All field testing is completed (manhole inspections, smoke testing). Wright Pierce is reviewing the field-testing results and working a Technical Memorandum with the results. Manhole inspections were conducted on July 15 followed by Smoke testing of the sewer mains on July 16th. The Richards Grove Road Wastewater Basin I&I evaluation being conducted by Wright-Pierce Engineers for the amount of \$27,500.00 This project consist of conducting inflow and infiltration I&I evaluations and Sewer System Evaluation Study (SSES) . This drainage area has been identified as one of the larger contributors of I&I to our Collection System. This area possesses approximately 5 miles of 8-inch diameter gravity sewer piping and serves primarily residential users. The current flows received and conveyed by the Richards Grove Pump Station are greater than the current capacity of the pump station, triggering the potential need for a capacity upgrade if the I & I sources cannot be identified and mitigated. The I&I mitigation and control program is an ongoing project. Our staff routinely conducts pipeline and manhole assessments with the use of our CCTV and Jet Rodding apparatus. Deficiencies are located, graded and catalogued based upon severity. Corrective repairs are typically conducted during springtime utilizing robotic trenchless technology.

2. Old Norwich Road Wastewater Pump Station Rehabilitation

There are two CNR designations totaling \$1,299,369 in L.I. # 20531-57816.

Available CNR Balance: \$160,595.91

In addition, available ARPA funds in the amount of \$1,020,041.

No major issues/concerns to report. However, contractor indicated there may be delays from MCC gear supplier which may impact contractor mobilization planned for end of May. A formal change order to the contract has been requested to extend the completion date as the project was originally scheduled to be complete this spring. The new roof was installed in June. Stored materials have been relocated from the Holzner warehouse to a storage container box located at the pump station.

Contractor submittals ongoing (approximately 85% complete with submittals). Contractor completion date remains November of 2025 currently.

The updated construction schedule is as follows:

- Install new doors & trim: The doors and trim work are complete.
- Power wash building & fencing at fuel tank – will be completed when doors are installed
- Gas line install to building – Eversource installed the line on Thursday 9/19.
- Gas line run from regulator/ meter to building entrance – Holzner/ mechanical contractor ran underground gas line from regulator to north side.
- Switchgear is showing delivery late spring – once received, bulk of work will commence
- Bypass install / contractor mobilization – end of May
- Electrical installation – commence once bypass system in place
- Mechanical installation - commence once bypass system in place
- Final site work – commence after bypass system removal

Competitive bid results for this project were received on August 10, 2023. The lowest bid received was from Holzner Construction in the amount of \$2,113,850.00 The Notice to Proceed for Holzner was executed on January 16, 2024. A Contract Administration proposal from Wright- Pierce was executed 1/19/2024 in the amount of \$55,800.00 an anticipated completion date is expected about November 2025.

3. Control Panel Retrofit

FY22 Capital Improvement Fund L.I. # 33122-55894

Original Appropriation: \$30,000.00 Available Balance: \$0 – line closed

This work is being completed in conjunction with the SCADA system upgrade, to date a high definition screen has been installed at the Route 85/Crystal Mall station and a 10 inch screen at Stoney Brook. All ordered parts have arrived, we anticipate beginning this project in the next 3-4 weeks once Ridgewood Ave is complete. This project entails replacing the existing pump control panels, which are obsolete and unsupported with current control technology. This work will ensue upon completion of upgrades currently being conducted at 10 of the lift stations, which are identified within this report and are being funded with ARPA funds.

4. Pump Station Exterior Improvements

FY22&23 Capital Improvement Fund L.I. # 33123-55895

Original Appropriations: \$ 100,000.00 (50K ea. L.I.) Available Balance: \$15,412.84

The East Neck Station driveway was replaced and the roof at Evergreen Avenue was replaced.

To date under these two L.I.#s, roof replacements have occurred at Shore Road, Dock Road, Bolles Ct, Waterford Village, Sea Side, Niantic River Rd, Mago Pt and Evergreen Ave stations. The exterior siding

was replaced at the Waterford Village and Bolles Ct stations. Siding repairs were conducted at Stoney Brook Station. A new asphalt driveway was installed at the East Neck pump station. This program will reconvene in the spring of 2025 with a driveway replacement at Cross Road Station.

5. Gorman-Rupp Pump Station Controls

This is an ARPA allocation project in the amount of \$163,750.00. L.I. # 23531-55013

To date Shore Road, Dock Road, Richards Grove Road, Old Barry Road, Quaker Hill Center, Oil Mill, Oswegatchie Rd and Niantic River Road stations are complete; Ridgewood Ave station, is the last station for this project and is at approximately 50% complete, the wet well work is complete, some interior work remains, due to manpower issues this work was delayed from last month, we anticipate the remaining work will take 10-14 working days to complete as time permits. Utility Commission staff is performing the installation of equipment, conduits and wiring. A scope of services change order was executed that directs the contractor to supply 18 cellular amplifiers and associated equipment in lieu of providing broadband to 5 stations. Utility Commission staff will be installing the amplifiers during the process of the controls upgrades. This project is ongoing.

6. Contract #1 Sewer Easement Access Project.

Capital Improvement Fund L.I. # 33123-55019

Original Appropriation: \$250,000.00 Available Balance \$147,200.00

Per Wright-Pierce, drawing updates and draft specifications are in progress. A kick off call to begin the final design package (drawing and specs) to be used for contractor bid solicitation and construction for Phase One of the restoration project occurred on January 22, drawing updates are in progress. Phase one will encompass the southern section of the interceptor beginning at the intersection of Great Neck Road and Rope Ferry Road to the end of the Interceptor at Evergreen Pump Station. Phase two which encompasses the northern section of the interceptor from Boston Post Road to Great Neck Road requires the acquisition of additional easements to gain access to the interceptor during restoration and for the Utility Commission staff in the future. Splitting the project into two Phases allows restoration work to begin while easements are procured, so that once Phase one is complete easements will be in place and Phase two can begin shortly thereafter.

Contract One Restoration Preliminary Design: W-P and WUC to have Teams meeting (tentative for Tuesday July 16) to discuss scope for the final design and construction. Also discuss the approach for 2 new easements that may be required for interceptor access. Based on the meeting, W-P will provide a fee proposal for the final design package (drawing and specs) to be used for contractor bid solicitation and construction.

The request for a Special Appropriation of funds in the amount of \$500,000 was approved by the Board of Selectmen on 1/10/23. On 1/11/23 the Board of Finance acted to reduce the original request appropriation to \$250,000. On 2/6/23 the RTM approved the \$250,000.00 Special appropriation. On August 8, 2023 the Utility Commission accepted Wright-Pierce Engineers (W/P) task order proposal in the amount of \$75,200.00. Survey of the C-1 easement started October 2, 2023 and is now complete. Wright-Pierce (W/P) submitted the Preliminary drawings on February 6, 2024. A plan review session was conducted on February 14, 2024 at which time we identified various access alternatives.

7. Plastic Water Service Line Replacement Program

CNR Appropriation L.I. # 20531-57881

Original Appropriations: \$550,000.00+\$181,300.00 = \$731,300.00

Available Balance: \$423,514.18

An additional 100K was designated FY24, a request to move from an appropriation to a designation will take place when the currently appropriated funds are expended.

A paving season kickoff meeting occurred with DPW on Feb 20th, we will begin replacing services on Albacore and Marlin the first week of April once the paving plant is open. Bid documents from a previous bid package to replace plastic water services in 2016 are being revised by WUC staff and will be sent to the finance department the week of March 10th for the services to be replaced on Old Norwich Road. The Maintenance crew has completed work on Quarry Road, Goshen Road, Leary Drive and Country Club Drive, a total of 65 services were investigated, of which 41 were identified as plastic service lines and replaced, this amounted to 972 LF of service line replacement on these streets.

Work commenced on the Plastic Water Service Replacement Project on May 22, 2023. In Fiscal Year 2024 the City of New London's contract service provider, Veolia replaced 21 plastic services on Shore Road; Waterford Utility Commission Maintenance Staff investigated a total of 425 services of which 105 were identified as plastic services and replaced on Shore Road, Niantic River Road, Tiffany Ave, East Brook Drive, Savi Ave, Cherry Street, Willow Street, Cedar Street, Mackenzie Road, Lark Street, Thrush Street, Robin Street, Quail Street, Kingfisher Way, Kestrel Lane, Woodlawn Ave and Woodlawn Court; a total of 2,584 LF of service lines were replaced. A request for an additional \$181,300.00 to replace plastic water services on Old Norwich Rd was approved by the Board of Selectman, Board of Finance and subsequently by the RTM on August 7, 2023.

8. Wiemes & Marilyn Road Ejector Pump Replacement

CNR Appropriation L.I. # 20531-57890 \$19,800.00

A signed task order was sent to Wright Pierce on March 3rd, Wright-Pierce is working with WUC staff to gather station and force main record drawings/documentation and run time data for each station, and a site visit to each station will be conducted within the next few weeks as they begin their analysis. On February 2nd the RTM approved our request to appropriate the designated funds following approval on January 15th from Board of Finance and January 7th approval from Board of Selectmen, funds will be available 15 days thereafter, as which time the task order will be signed and the Engineering Study can begin.

Wiemes Ct and Marilyn Rd pump stations were designed in 1981. These stations are known as Pneumatic Ejectors. The station itself is a steel cylinder 9' in diameter buried about 18 feet below ground and accessed via a manway. The station houses the pots, compressors and control panel. The stations have exceeded their design life and do not operate efficiently. An engineering study is warranted to fully evaluate the stations structural integrity and plan for the station's replacement. In addition, considerations for permanent stand by power should be evaluated, as portable generators have to be mobilized in the event of need. Wright-Pierce provided a fee proposal for \$19,800 to complete the needed engineering study, a formalized task order has been requested, with the understanding the funding must be appropriated prior to execution of the task order.

Sewer Development & Maintenance Fund Projects

9. SCADA System Upgrade Design/Build

L.I. # 24431-57766 Approved Task Order: \$147,600.00

A draft amendment to the scope of the project was received on March 6th, with an additional cost of \$16,600 to their original approved task order and a timeline extension of 6-8 weeks as a result of the verbally agreed upon scope changes. The changes to the scope will net long term savings to the Commission over the life of the SCADA system due to the elimination of the \$2,000 monthly cost for a separate fiber internet connection which over an anticipated 7 year life of the system equates to a cost savings of over \$150,000 in internet connection fees alone, amongst other reoccurring costs for data storage and back up.

The current SCADA (Supervisory Control and Data Acquisition) system has experienced multiple failures over the past several months, which has necessitated calling in the entire crew to canvas the pumps stations on at least one occasion while the system was brought back online; additionally two different software programs used to operate the system are no longer supported and the hardware has exceeded its useful life. The Commission has entered into a design-build contract with Wright Pierce, our on-call engineering firm, to replace the failing system. The new system platform will be Ignition, a software system found and piloted by one of our current Maintenance Operators and presented to the Commission over the past few years. Additionally the communication between stations to the maintenance shop/Municipal Complex will be accomplished over a closed zero-tunnel cellular network with radio redundancy. The Commission approved the proposal from Wright-Pierce for this project in August of 2024, the cellular network work is outside of this proposal and is being handled by Utility Commission staff. As a result of discussions and investigations made over the last few months, an amendment to the scope of the project will be made. This amendment was discussed at the December meeting with a representative from Wright-Pierce and involved avoiding duplicative efforts in terms of IT infrastructure/resources that the Town could provide the Commission, including options for fiber connectivity, data storage, and virtualized hosts.

To date the following progress has been made on this project:

- 1) Project kickoff meeting held on site October 3rd. Wright-Pierce reviewed the current network architecture and programs/ hardware.
- 2) Preliminary network architecture drawings in progress, coordination meeting with Waterford IT on Dec 6^h.
- 3) Revised preliminary network drawings based on initial/follow up discussions.
- 4) Verizon design meeting to review cellular network needs
- 5) IT meeting to discuss virtual historian and data storage.
- 6) Commission meeting to review modified scope per above
- 7) A follow up IT meeting to solidify scope changes for forthcoming amendment.
- 8) Conceptual SCADA hardware design 95% complete waiting on Client decision on Pump Station Wi-Fi dot1x
- 9) Virtual Infrastructure Network Drawing 95% complete
- 10) Amendment 1 being drafted for changes as outcome of virtualization decisions.
- 11) HMI Development 90% Complete.
- 12) Currently working on putting screenshots together for client review.

10. Water and Wastewater Standards and Specifications Update
L.I. # 24431-52121 Approved Task Order: \$36,800.00

The current Water and Wastewater Standard and Specifications the Utility Commission uses are significantly outdated and require updating. This project is being cost-shared with the City of New London. Wright Pierce Update as of 3/6/2025: Water specifications draft generated and being submitted to Waterford for review and comment.

Wright Pierce update: Document in progress. Will send over sample section for review. Detail (drawings) sent over to Waterford for review and comment by Waterford staff – set up meeting to discuss.

Utility Commission Operational Projects

- All wastewater collection system components and equipment are operational.
- The Asset Management software project, Beehive, is underway and improvements to our GIS program continue. Initial training for supervisors in Beehive occurred January 21st, training for the remaining crew is scheduled for March 13th.
- Municipal Waterworks Meetings: a meeting is scheduled for March 20th.
- Municipal Wastewater Flow Metering verification was performed by an independent vendor, the Utility Commission and the City of New London will engage Flow Assessment Services to manage the inter-municipal flow meters with full transparency and ensuring both municipalities have real time access to the data at all times moving forward.

Respectfully Submitted,

Jill N. Stevens

Director of Utilities