Aquarion Water Company Bi-Annual Report on Planned and Completed Capital Improvements to the Abenaki Water Company Systems

July 15, 2025

Aquarion Company ("Aquarion") provides this report pursuant to Order No. 26,549 issued by the New Hampshire Public Utilities Commission (the "Commission") in Docket DW 21-090 on November 12, 2021 (the "Order"), and the Settlement Agreement dated November 9, 2021, as approved in the Order. Specifically, Section 10.1 of the Settlement Agreement requires Aquarion to provide a bi-annal update of planned and completed capital improvements to the Abenaki Water Company ("Abenaki") water systems. This report provides the update as of June 30, 2025.

Contents

Lakeland (Belmont)

The planned capital improvements through 2027 are presented below:

Project Description	Actual Spend through June 30, 2025 Since the Acquisition of NESC in Dec 2021	Remaining 2025 Projected Spend	2026 Projected Spend	2027 Projected Spend	Total Spend (Actual + Projected)
Water System Mapping & Improvements	$7,316	$1,000	$600	$600	$9,516
SCADA & Instrumentation Upgrades	$32,950	$1,000	$5,500	$4,800	$44,250
Generator for Plummer Hill Booster Station	$35,503	$ -	$ -	$ -	$35,503
Generator for Wells & Treatment Plant	$85,552	$ -	$ -	$ -	$85,552
Treatment Plant Disinfection System	$46,818	$219,850	$ -	$ -	$266,668
Plummer Booster Pump Station Safety Improvements	$1,725	$ -	$ -	$ -	$1,725
Well 5 Access Road and Rehab	$6,905	$106,095	$ -	$ -	$113,000
Customer Meter Replacement	$24,459	$500	$800	$600	$26,359
Well Production Study	$ -	$ -	$ -	$ -	$ 0
Total	$241,228	$328,445	$6,900	$6,000	$582,573

In Progress or Completed:

- ***Water System Mapping Improvements*** – Revisions and adjustments to the mapping are periodically made when new information becomes available.
- ***SCADA and Instrumentation Upgrades*** – Telemetry and data acquisition equipment was installed at the facility to monitor station operations in 2023. Direct monitoring of the storage tank level was added, along with associated programming changes for pump operations.
- ***Generator for Plummer Hill Booster Station*** – The project is complete and in service.
- ***Generator for Wells and Treatment Plant*** – This project is complete and in service.
- ***Treatment Plant Disinfection System*** – The Lakeland System is not currently providing chlorine disinfection of the water supply. Chlorination of water systems is an important safeguard to public health and is a company policy for Aquarion, and the same policy will apply to Abenaki. A water quality evaluation and alternatives analysis for chlorine addition was completed in 2024. This work is scheduled to be bid in August of 2025 and work is expected to start in late 2025 or early 2026.

Planned for 2025:

- ***Well 5 Access Road and Rehab*** – Well 5 requires maintenance but does not currently have a way to access the well. Aquarion has obtained a temporary easement to create an access road and obtained the temporary DOT driveway access permit required for this work. Construction of a temporary access road will begin in early July 2025 followed by a thorough well rehabilitation including pulling the existing pump and riser piping for inspection. While the pump and piping are being inspected, the well will be hydrofracked to clean the well with the goal of increasing the well yield.

- ***Plummer Booster Pump Station Safety Improvements*** **–** Stairway improvements were completed in 2024. This project is complete and in service.
- ***Customer Meter Replacement*** **–** Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***SCADA and Instrumentation Upgrades*** **–**The disinfection project includes additional flow and chemical monitoring equipment, to be followed by more programming changes for chemical feed dosing.

Future Years (2026-2027):

- ***SCADA and Instrumentation Upgrades*** **–** Equipment updates and repairs will be completed as necessary.
- ***Customer Meter Replacement*** **–** Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***Well Production Study*** **–** This project includes retaining a consultant to evaluate the production capability of each well to evaluate their long-term viability. The project has been delayed at this time and will be re-evaluated to determine the appropriate time for completion.

White Rock (Bow)

The remainder of the $350,000 grant from the New Hampshire Drinking Water and Groundwater Trust Fund ("NHDWGTF") was spent in 2024. The planned capital improvements through 2027 are presented below:

Project Description	Actual Spend through June 30, 2025 Since the Acquisition of NESC in Dec 2021	Remaining 2025 Projected Spend	2026 Projected Spend	2027 Projected Spend	Projected / Received Grant	Total Spend (Actual + Projected)
Water System Mapping & Improvements	$11,232	$500	$600	$600	$ -	$12,932
SCADA & Instrumentation Upgrades	$81,264	$5,000	$5,500	$4,800	$ -	$96,564
Design & Replacement of Water Mains	$ -	$ -	$15,000	$150,000	$ -	$165,000
Regulator Upgrades & New Isolation Valves	$91,116	$ -	$ -	$ -	($17,243)	$73,873
Regulators Replacements – White Rock	$57,422	$ -	$ -	$ -	$ -	$57,422
Water Supply Improvements	$457,661	$5,000	$ -	$ -	($229,857)	$232,804
Arsenic Treatment System Upgrade	$190,119	$ -	$ -	$ -	($68,193)	$121,926
Well Production Study	$ -	$ -	$ -	$ -	$ -	$0
Customer Meter Replacement	$6,682	$2,666	$13,869	$ -	$ -	$23,217
Total	$895,496	$13,166	$34,969	$155,400	($315,293)	$783,739

Note:

Grant funds totaling $34,707 were utilized prior to the acquisition for a storage tank lining project. Along with the amount shown above, the total grant funding is $350,000.

The program funding is comprised of a $350k grant, $125k loan, and company contributed funds of $130.5k for a total of $606,000. The funds are supporting the regulator upgrades, well rehabilitation, and arsenic treatment projects.

In Progress or Completed:

- ***Water System Mapping Improvements*** – Revisions and adjustments to the mapping will be made as updated information becomes available.
- ***SCADA and Instrumentation Upgrades –*** Telemetry and data logging equipment (Telog) was installed at the facility to monitor station operations. Instrumentation upgrades include instrumentation to monitor well water levels, tank water level, and individual well flows, along with a new programmable logic controller to monitor and control the facility.
- ***Regulator Upgrades & New Isolation Valves –*** Two of the five pressure reducing valves (PRVs) were replaced by the end of 2023. A blow off and two isolation valves were also installed with this project.
- ***Regulators Replacements – White Rock –*** The final three PRVs were replaced in 2024 with final testing and adjustments completed in 2025.
- ***Water Supply Improvements –*** An exploratory well was drilled on the Town's property. The well was drilled to a depth of approximately 820 feet with an estimated yield of one gallon per minute. Given the unfavorable results at the well site and based on the recommendation from their Consultant, Aquarion has decommissioned the new well and removed the gravel access road from the Town's property. Final restoration was completed in Spring of 2025. Due to the unfavorable results with the new source exploration and to improve the quantity of water obtained from existing

wells, Aquarion proceeded with hydrofracking of their existing wells. Hydrofracking improved the production capacity of all wells.

- ***Arsenic Treatment System Upgrade*** – This project is complete and in service.
- ***Customer Meter Replacements*** – Periodic water meter replacements.
- ***Well Production Study*** – This project was completed within the scope of the Water Supply Improvements project. The process of redeveloping Wells 2 & 3 included pump tests, water quality sampling, monitoring water levels, and inspecting of all equipment (still tubes, column piping, pumps, wiring), with replacement as necessary.

Planned for 2025:

- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***SCADA and Instrumentation Upgrades*** – Existing equipment will be evaluated to determine additional upgrades necessary for the system.

Future Years (2026-2027):

- ***SCADA and Instrumentation Upgrades*** – Equipment updates and repairs will be completed as necessary.
- ***Design & Replacement of Water Mains*** – System areas will be evaluated for replacement. Main break records will be kept for reference in the evaluation.
- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.

Tioga River (Belmont)

The planned capital improvements through 2027 are presented below:

Project Description	Actual Spend through June 30, 2025 Since the Acquisition of NESC in Dec 2021	Remaining 2025 Projected Spend	2026 Projected Spend	2027 Projected Spend	DWGTF Grant	Total Spend (Actual + Projected)
Water System Mapping & Improvements	$4,946	$500	$600	$600	$ -	$6,646
SCADA & Instrumentation Upgrades	$10,125	$5,000	$5,000	$5,000	$ -	$25,125
Design & Replacement of Water Mains	$80,826	$ -	$ -	$ -	($5,000)	$75,826
Generator for Wells & Treatment Station	$26,465	$ -	$ -	$ -	$ -	$26,465
Well Production Study	$ -	$ -	$ -	$ -	$ -	$0
Customer Meter Replacement	$496	$ -	$ -	$ -	$ -	$496
Total	$122,858	$5,500	$5,600	$5,600	($5,000)	$134,558

In Progress or Completed:

- ***Water System Mapping Improvements*** – Revisions and adjustments to the mapping will be made as updated information becomes available.
- ***SCADA and Instrumentation Upgrades*** – Telemetry equipment has been installed. Additional work is needed to be fully functional and communicating with the system. Equipment updates and repairs will be completed as necessary.
- ***Design & Replacement of Water Mains*** – Approximately 300 linear feet of water main on Tioga Drive was replaced in Spring 2023. The New Hampshire Drinking Water and Groundwater Trust Fund (DWGTF) previously awarded a $5,000 grant towards the project improvements, as shown in the table above.
- ***Generator for Wells and Treatment Station*** – The project is complete and in service.
- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.

Planned for 2025:

- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***SCADA and Instrumentation Upgrades*** – Existing equipment will be evaluated to determine additional upgrades necessary for the system.

Future Years (2026-2027):

- ***Water System Mapping Improvements*** – Revisions and adjustments to the mapping will be made as updated information becomes available.
- ***SCADA and Instrumentation Upgrades*** – Equipment updates and repairs will be completed as necessary.

- ***Well Production Study*** **–** This project includes retaining a consultant to evaluate the production capability of each well to evaluate their long-term viability. The project has been delayed at this time and will be re-evaluated to determine the appropriate time for completion.
- ***Customer Meter Replacements*** **–** Meter replacements in compliance with the PUC's periodic meter replacement schedules.

Gilford Village (Gilford)

The planned capital improvements through 2027 are presented below:

Project Description	Actual Spend through June 30, 2025 Since the Acquisition of NESC in Dec 2021	Remaining 2025 Projected Spend	2026 Projected Spend	2027 Projected Spend	Total Spend (Actual + Projected)
Water System Mapping & Improvements	$2,730	$4,900	$600	$600	$8,830
SCADA & Instrumentation Upgrades	$10,207	$4,000	$4,800	$4,800	$23,807
Design & Replacement of Water Mains	$184,255	$ -	$10,000	$140,000	$334,255
Generator for Wells & Treatment Station	$92,750	$ -	$ -	$ -	$92,750
Storage Tank Lining	$60,510	$ -	$ -	$ -	$60,510
Well Production Study	$ -	$ -	$ -	$ -	$0
Customer Meter Replacement	$2,657	$1,800	$ -	$ -	$4,457
Total	$353,109	$10,700	$15,400	$145,400	$524,609

In Progress or Completed:

- ***Water System Mapping Improvements*** –Mapping work will continue in 2025 for the location of existing equipment, water main, and associated appurtenances.
- ***SCADA and Instrumentation Upgrades*** – Installation of new equipment and replacement of obsolete or damaged equipment will continue through 2027.
- ***Design and Replacement of Water Mains*** – The main serving Bacon Drive was replaced in 2023. Approximately 415 linear feet of 4-inch high density polyethylene (HDPE) pipe, services, valves, services, and curb stops were installed to replace the existing main. The 2" meter pit was replaced in 2024 and a new meter was installed.
- ***Generator for Wells and Treatment*** – This project is complete and in service.
- ***Storage Tank Lining***– The system storage tank was inspected in 2022 per NHDES requirements and it was determined that the entire interior coating of the tank had worn away over the approximate 50-years it has been in service. A new interior tank lining was installed in 2023 and is in service.

Planned for 2025:

- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***SCADA and Instrumentation Upgrades*** – Existing equipment will be evaluated to determine additional upgrades necessary for the system.

Future Years (2026-2027):

- ***Water System Mapping Improvements*** – Revisions and adjustments to the mapping will be made as updated information becomes available.

- ***SCADA and Instrumentation Upgrades*** – Equipment updates and repairs will be completed as necessary.
- ***Well Production Study*** – This project includes retaining a consultant to evaluate the production capability of each well to evaluate their long-term viability. The project has been delayed at this time and will be re-evaluated to determine the appropriate time for completion.
- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***Design and Replacement of Water Mains*** - System areas will be evaluated for replacement. Main break records will be kept for reference in the evaluation.

Rosebrook (Carroll)

The Rosebrook System is in the Bretton Woods area of the Town of Carroll, New Hampshire. There are high pressures in large areas of the system and mitigating the pressures will be the focus of capital spending through 2027, as shown in the table below. Abenaki has been working closely with the New Hampshire Department of Environmental Services ("NHDES") to coordinate design activities and planned construction to satisfy the Letter of Deficiency (LOD) that was issued for the treatment building deficiencies and high system pressures. The NH Drinking Water & Groundwater Trust Fund previously approved the project for $2,520,000 in loan funds and awarded a $280,000 grant. Additionally, Abenaki will provide a $280,000 credit towards the pressure reduction project, as agreed to during the acquisition of the New England Service Company ("NESC"). The planned capital improvements through 2027 are presented below:

Project Description	Actual Spend through June 30, 2025 Since the Acquisition of NESC in Dec 2021	Remaining 2025 Projected Spend	2026 Projected Spend	2027 Projected Spend	Projected / Received Grant / Contribution	Total Spend (Actual + Projected)
Water System Mapping & Improvements	$18,949	$600	$600	$600	$ -	$20,749
SCADA & Instrumentation Upgrades	$33,092	$4,800	$5,000	$5,000	$ -	$47,892
Station Pressure Reduction & Treatment (Phase I)	$2,734,711	$346,200	$ -	$ -	($280,000)	$2,800,911
System Pressure Reduction (Phase II)	$376,685	$200,000	$1,300,000	$ -	($280,000)	$1,596,685
Install 16-inch Isolation Valves	$24,270	$70,500	$ -	$ -	$ -	$94,770
Isolation Valve Replacements	$3,722	$16,000	$17,000	$18,000	$ -	$54,722
Second River Crossing/Base Lodge Main Relocation	$ -	$ -	$75,000	$670,000	$ -	$745,000
Well Production Study	$ -	$ -	$ -	$ -	$ -	$0
Customer Meter Replacement	$13,444	$500	$1,000	$1,000	$ -	$15,944
Total	$3,204,873	$638,600	$1,398,600	$694,600	($560,000)	$5,376,673

In Progress or Completed:

- ***Water System Mapping*** – The system mapping will be updated as new information becomes available.
- ***SCADA and Instrumentation Upgrades*** – Installation of new equipment and replacement of obsolete or damaged equipment will continue through 2027.
- ***Station Pressure Reduction & Treatment (Phase 1)*** – Construction began on the new Rosebrook Water treatment plant in April 2024. Construction is anticipated to be complete in Summer 2025. Information regarding project cost and financing, under Docket 21-061, can be viewed on the NHPUC website at the following link: ***https://www.puc.nh.gov/regulatory/Docketbk/2021/21-061.html***
- ***System Pressure Reduction (Phase 2 Design)*** – Aquarion's Consultant submitted 90% design plans for the three pressure reducing valves (PRVs) to NH DES in January 2025. Current cost

estimates for this work are higher than originally estimated. Aquarion is pursuing State Revolving Fund (SRF) and Drinking Water Groundwater Trust Fund (DWGTF) funding for this phase of the project and re-evaluating alternatives for the project due to the high cost.

- ***Install 16-inch Isolation Valves*** – A consultant is currently working on the design of several 16-inch isolation valves for placement on the system trunk line for improved operational control during maintenance and potential emergency situations.
- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.

Planned for 2025:

- ***Isolation Valve Replacements*** – The replacement of select inoperable and/or damaged valves are planned for 2026-2027. The status of valve operability is evaluated during the annual valve exercising program.
- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.
- ***SCADA and Instrumentation Upgrades*** – Existing equipment will be evaluated to determine additional upgrades necessary for the system.

Future Years (2026-2027):

- ***SCADA and Instrumentation Upgrades*** – Equipment updates and repairs will be completed as necessary.
- ***System Pressure Reduction (Phase 2 Construction)*** – The construction of three pressure reducing structures was anticipated to be completed over two construction seasons in 2025 and 2026. However, the pursuit of SRF and DWGTF funding will delay construction start to 2026. The plan for pressure reduction was selected in consultation with stakeholders and is consistent with the settlement agreement in Docket No. DW 21-090, approved by the NHPUC.
- ***Second River Crossing/Base Lodge Main Relocation*** – In order to better manage risk throughout the distribution system, a second river crossing is proposed with design in 2026 and construction in 2027. Relocation of the Base Lodge water main will be considered as part of the design. The base lodge main will be relocated once a complete understanding of future development within the base lodge area is better understood.
- ***Well Production Study*** – This project includes retaining a consultant to evaluate the production capability of each well to evaluate their long-term viability. The project has been delayed at this time and will be re-evaluated to determine the appropriate time for completion.
- ***Customer Meter Replacements*** – Meter replacements in compliance with the PUC's periodic meter replacement schedules.