

MEETING MINUTES

Date: Thursday, March 28, 2024 at 5:30 P.M.

Location: East Hampton Town Hall
One Community Drive
East Hampton, CT

Meeting Title: Town of East Hampton, Connecticut
Water System Preliminary Design Project
Water Committee Meeting

Prepared By: Hanna Schenkel, Environmental Partners

Attendants: David Cox, Town Manager, Town of East Hampton
Jack Solomon, Water Committee Chair, Town of East Hampton
Dave Terry, Water Committee Member, Town of East Hampton
John Pianzio, Water Committee Member, Town of East Hampton
Tim Feegel, Water Committee Member, Town of East Hampton
Bob Drewry, Water Committee Member, Town of East Hampton
Tony DiSimone, Water Committee Member, Town of East Hampton
Dean Markham, Water Committee Member, Town of East Hampton
Scott Clayton, Public Utilities Administrator, Town of East Hampton
Chuck Adelsberger, Principal, Environmental Partners
Hanna Schenkel, Project Engineer, Environmental Partners

The Town of East Hampton's (Town) Water Committee and Environmental Partners (EP) met at the above date and location to discuss the Town's centralized municipal water system preliminary design project and EP's findings to date. EP presented past efforts completed, discussed work completed to date in the preliminary design phase of the project, and discussed the next steps for the project.

Chuck Adelsberger provided an update on EP's progress on the project to date. EP presented figures depicting the preliminary water system design and pressure zones based on EP's hydraulic analyses. EP presented the key considerations taken to design the water system, including acceptable service pressure ranges, available fire flow, necessary storage, and priority service areas. We discussed the priority water service areas, the Village Center area, and the area around Lake Pocotopaug, along with the phasing of providing water service to each depicted service area. The Town discussed the

prioritization of additional water supply and provided updates on communication with the Town of Portland. The Town also discussed project funding and public outreach efforts.

EP has presented below our understanding of the topics and responses as discussed during the meeting and action items to complete this phase of the project.

Discussion Topics

- a. Introductions
 - This was the first meeting with the new Water Committee.
- b. Project Status
 - The Town has received two grants for the engineering work completed to date.
 - \$250K received through the bond commission.
 - \$1.5M received from the Connecticut Department of Energy and Environmental Protection (CTDEEP).
 - EP has completed the Preliminary Engineering Report (PER) as required by the Connecticut Department of Public Health (CTDPH) for the Drinking Water State Revolving Fund (DWSRF) program, the Groundwater Exploration Program, and the Water System Facility Siting and Hydraulic Evaluation Report.
- c. Water System Facility Siting and Hydraulic Evaluation Report
 - Project Planning
 - Available Water Supply from Cobalt Landing Wellfield
 - Initial testing indicated available water supply under 0.90 million gallons per day (MGD) from the Cobalt Landing Wellfield.
 - Initial testing did not include an extended pump test and was solely for the purpose of testing water quality and a camera survey to confirm the condition of the existing well casings and well screens.
 - Town Topographic Conditions
 - Elevations in Town range from 0' (at Cobalt Landing Wellfield) to over 600' (Lake Pocotopaug).
 - The densest population is located in the higher elevations at the Village Center and Lake Pocotopaug areas.
 - Proposed Facilities and Extend of System
 - System Layout, Boundaries, and Constraints
 - EP has configured the service area with three major pressure zones including a High Pressure Zone, which is divided into two phases having approximately equal projected water demands.
 - Proposed Water System Facility Sites
 - Cobalt Landing Wellfield
 - Water Treatment Plant
 - EP will coordinate with the WPCA for treatment chemical addition at the proposed water treatment facility.
 - Water Storage Tanks
 - Booster Pumping Stations

- Options for Future Drinking Water Sources to Supplement Cobalt Landing Wellfield including Potential Portland Groundwater Supply
 - Portland Interconnection
 - The Town has had conversations with the Town of Portland about using their proposed groundwater supply for East Hampton's water system.
 - EP discussed a regional approach for water supply because it will be attractive to CTDPH, CTDEEP, and funding agencies, as well as less expensive per customer due to economics of scale.
 - Pine Brook Exploration
 - Three borings drilled at the Pine Brook site, located in mapped aquifer area and as close to while staying outside of the mapped wetland buffer zone. The driller hit refusal (i.e., rock/till material) at all three drilling locations.
 - Water Subcommittee ed drilling in the wetland area, where there may be better aquifer material. EP suggested that CTDEEP likely would not permit a municipal groundwater supply source within wetland areas and in the floodplain.
 - In the 2000s, the Town complete previous reports, which indicated a well installation at the eastern side of the Pine Brook. Scott Clayton indicated that the wellhead is now completed submerged in water.
 - The Pine Brook may have blockages that are restricting water flow.
 - Radial collector wells in the Connecticut River
 - CTDPH has deemed the Connecticut River a Class B water source and therefore does not allow drinking water supply from the river.
 - Legislation changes would be required to serve the Town using radial collector wells in the Connecticut River.
 - The group discussed the benefits of the Town buying land for water supply if a promising for water supply source is located.
 - Colchester Interconnection
 - Existing WPCA-owned water systems will likely not be integrated into Town-wide water service due to water quality issues, limited water capacity, and high operating costs.
 - The Town can adopt policies to minimize water demands, such as irrigating with private wells only or water curtailment policies during high water demand seasons.
- Water System Hydraulics Evaluation
 - Design Criteria
 - Water System Design
 - Proposed Service Pressures and Available Fire Flow
- d. Proposed Scope of Work for Conceptual Design Phase
 - Confirm required Federal, State, and Local permitting requirements Including:
 - Local East Hampton Permitting Contacts and Requirements

- Potential CTDPH and CTDEEP Permitting Requirements for Potential Portland Groundwater Supply
- EP discussed its plans to schedule meetings with local and State regulatory agencies to further discuss potential permit applications and requirements needed for the proposed water system.
- Perform programmatic project planning.
 - Confirm Extent of Proposed Service Area for Skeletonization of Recommended Piping to Supply High Service Area (Phases 1 and 2).
 - When reviewing projected water demands of the current configuration, EP confirmed that the combined High Pressure Zones exceed the available water from the Cobalt Landing Wellfield.
- Perform required wetland flagging on the proposed facility sites including:
 - Cobalt Landing Wellfield and Raw Water Pump Station.
 - Cobalt Water Treatment Plant (WTP) and Finished Water Pump Station.
 - Low Zone Storage Tank.
 - Gildersleeve Booster Pump Station.
 - Intermediate Zone Storage Tank.
 - Center School High Zone (Phase 1) Booster Pump Station.
 - Memorial School High Zone Storage Tank (Phase 1).
- Plan and perform all required surveying and mapping for Phase 1 development of the new water system.
 - EP completed the drone survey on March 20th. The extent of the survey included the entire proposed service area, including the Lake Pocotopaug area.
- Coordinate subsurface explorations by boring subcontractor.
 - Since Route 66 has a concrete road base, EP will coordinate with CTDOT prior to conducting subsurface explorations and potential install the proposed water mains in the breakdown lane or off the paved surfaces of State highways.
 - EP will review topographic and geologic conditions to determine boring spacing prior to conducting subsurface explorations.
- Develop initial 10- to 25-percent design site layouts.
- e. Schedule for Conceptual Design Phase
 - EP is processing the drone survey data and will begin collecting GPS points in the spring.
 - EP will assess the water system phasing in the spring but will need the Water Subcommittee to confirm the proposed service supplied by the Cobalt Landing Wellfield supply (i.e., 0.90 MGD) by the next meeting to maintain the project and funding schedule.
 - EP will begin setting up meetings with state regulators and local agencies to discuss permitting within the next few weeks.
- f. Project Funding
 - New Grant Funding Agreement with CTDEEP for \$1.5M
 - Potential Future Funding Alternative for Final Design and Construction Phases including the Drinking Water State Revolving Fund (DWSRF) Program.

- The Town suggested that United States Department of Agriculture (USDA) Rural Utility Services (RUS) funding may be a possibility for this project. East Hampton would likely qualify due to its small population but may not satisfy the median income requirement.
- EP discussed the unprecedented funding available through the Bipartisan Infrastructure Act.
- Connecticut State Representative is currently aware of the project and David Cox has requested about \$26M in funding to further develop the Cobalt Wellfield, install the low service zone water main and construct the proposed Cobalt Water Treatment Plant.

Action Items and Next Steps

- a. Process Drone Survey Data to Create Base Mapping for Conceptual Design.
 - The Town shared wastewater .kml files with EP.
- b. Confirm CTDEEP, CTDPH, and Local East Hampton permitting requirements for proposed project.
 - EP and the Town met with CTDEEP and CTDPH in November 2023 to discuss project progress and the possibility of radial collector wells.
 - EP will research the Office of the Long Island Sound requirements for all work conducted near the Connecticut River.
- c. Determine extent of service area for skeletonization of water distribution system.
 - The Subcommittee stressed the importance of serving customers in the contaminated areas of Town. EP recommends that the Water Subcommittee define the initial water service area for the Cobalt Wellfield supply so we can finalize our services areas and skeletonize the hydraulic model while completing the required hydraulic modeling.

General Discussion/Questions

- a. The Subcommittee discussed methods for gaining public support for the water system construction.
 - The Town will determine bylaws to clarify whether customers must tie-in to the water system.
- b. Water Subcommittee will hold future meetings on the last Thursday of the month at 6:00 PM.

MEETING AGENDA

Date: March 28, 2024 at 5:30 PM

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Water System Preliminary Design Project
Water Subcommittee Kickoff Meeting

Discussion Topics

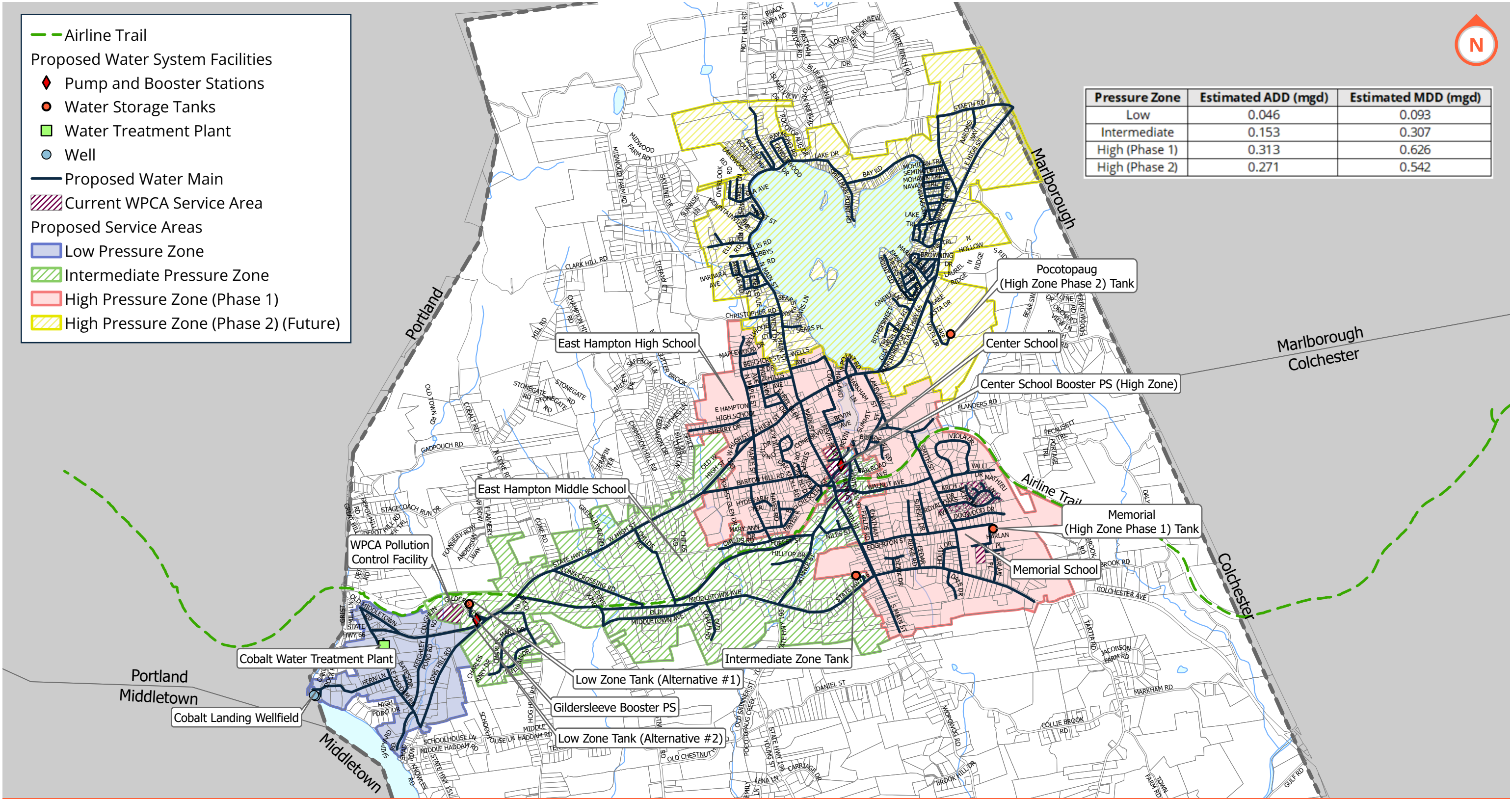
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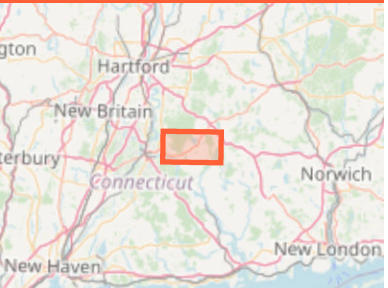
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- c. Determine extent of service area for skeletonization of water distribution system.

General Discussion/Questions



Pressure Zone	Estimated ADD (mgd)	Estimated MDD (mgd)
Low	0.046	0.093
Intermediate	0.153	0.307
High (Phase 1)	0.313	0.626
High (Phase 2)	0.271	0.542

Figure 3-1
Proposed Water System Facilities (Full Buildout)
East Hampton, Connecticut
September 2023



Disclaimer: This map is intended for planning purposes

Figure 4-1 – East Hampton Water System Schematic

NOTES:
(1) ALL ELEVATIONS ARE MEAN SEA LEVEL (MSL) DATUM.
(2) ALL ELEVATIONS REFER TO BASE/GROUND LEVEL ELEVATION OF FACILITY.
(3) DIAGRAM IS NOT TO SCALE.

