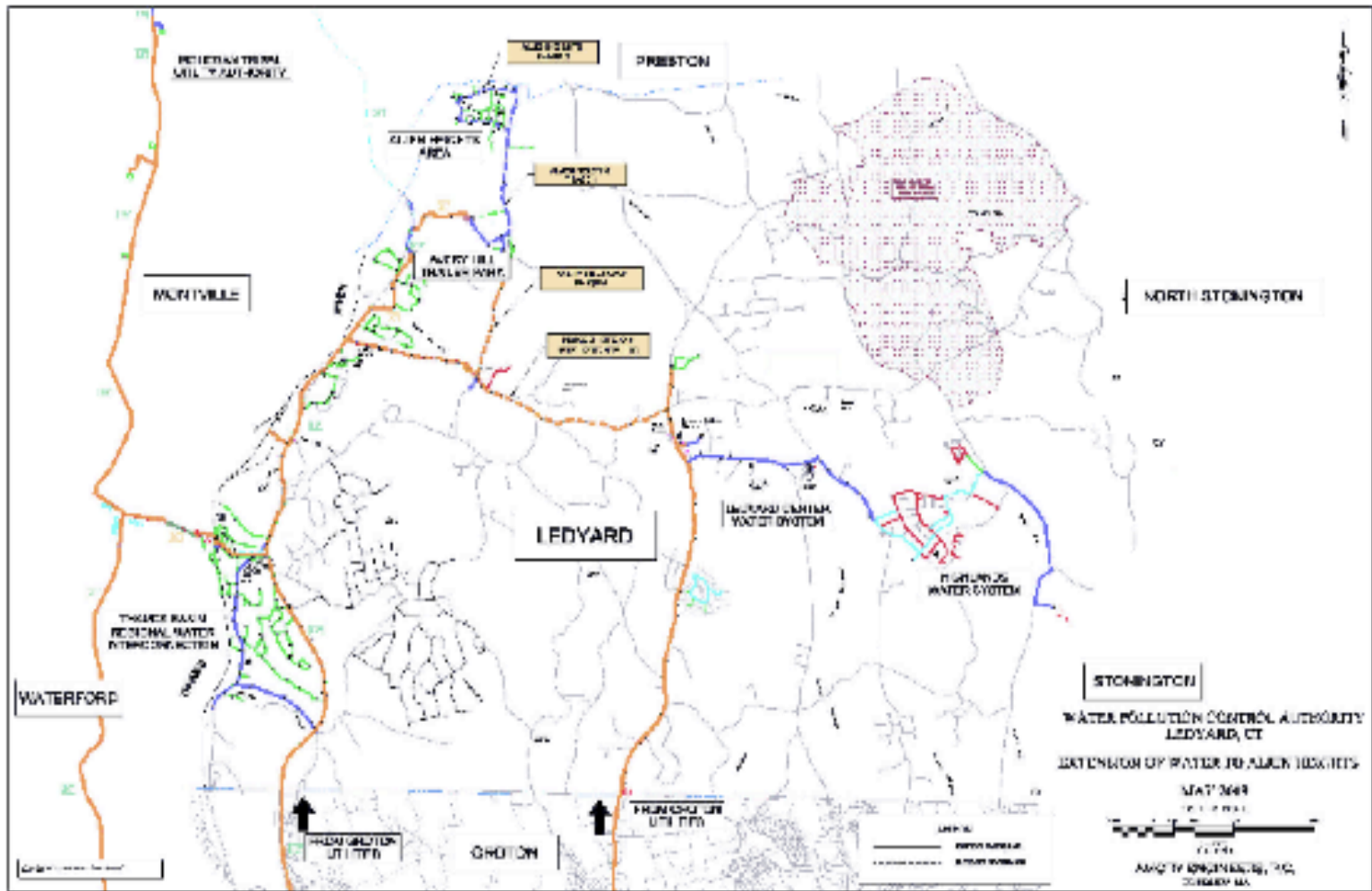


Extension of the Water System to Aljen Heights





Project Benefits

- Extension of Water to Aljen Heights will address a number of health-related issues that threaten the residents of this area:
 - Current supply source (single community well) for Avery Hill Trailer Park has been noted to have a number of sanitary survey violations.
 - Approximately sixty-three (63) properties (23 percent of properties served in Phases 1 and 2) have had a failed on-site septic system (subsequently repaired).
 - Private wells have water-quality concerns. High nitrate levels (5-15 mg/l) were noted in twenty-one wells. Occasional total coliform (including fecal) and other bacteria have been noted. Marginal water quality, including excessive iron, manganese, sodium, chloride, hardness and low pH, has resulted in use of in-home treatment systems.



Project Benefits (continued)

- Extension of Water to Aljen Heights will address a number of health-related issues that threaten the residents of this area:
 - Provision of municipal water from a known quality supply source (Groton Utilities) that is adequately protected will eliminate concerns over “water from where and of what quality”.
 - Extension to Aljen Heights will interconnect the two major water systems in Ledyard (Gales Ferry and Ledyard Center/Highlands). System interconnection (Phases 3 and 4) will improve overall reliability.
 - Extension of Water to Aljen Heights would provide options for local communities to meet future water supply needs.



Project Scope

- Project consists of 4 phases (Only Phases 1 and 2 under consideration at this time):
 - Phase 1: 6,600 l.f. of 12-in. and 2,600 l.f. of 8-in. watermain in Avery Hill Rd.; booster pumping station relocation, and PRV.
 - Phase 2: 6,150 l.f. of 12-in. and 8,750 l.f. of 8-in. watermain in Aljen Heights.
- To Be Considered at Later Date
 - Phase 3: 15,400 l.f. of 16-in. and 475 l.f. of 12-in. extension in Stoddard Wharf Road (Rte. 214) and PRV.
 - Phase 4: 5,500 l.f. of 16-in. watermain in Avery Hill Road.



Project Schedule

- Schedule

- Phases 1&2 - Immediate

- Design of Phases 1 & 2 is complete.
- Town Referendum/Town Meeting
- CT Dept. of Public Health SRF Loan / Grant.
- Construction could start Fall 2011 be complete by Summer 2012.

- Phases 3&4 – Long Term

- Unknown at this time



Project Schedule

- Schedule

- Phases 1&2 - Immediate

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- Phases 3&4 – Long Term

- Unknown at this time



Project Costs

■ <u>Immediate</u>	
■ Phase 1	\$1,950,000
■ Phase 2	<u>2,900,000</u>
■ Immediate Need Cost:	\$4,850,000
■ <u>Longer-Term</u>	
■ Phase 3	\$3,860,000
■ Phase 4	<u>1,230,000</u>
■ Longer Term Cost:	\$5,090,000
■ Total Project Costs (Ph. 1-4)	\$9,940,000



Conclusions

- **Extension of Water to Aljen Heights will address health-related issues that threaten residents of this area:**
 - Provide high quality water and eliminate water-quality concerns.
 - Eliminate concerns of “from where and of what quality”.
 - Allow replacement of community well in Avery Hill Trailer Park.
 - Allow for additional lot area should on-site septic systems need replacement.

- **Long Range Project**
 - Interconnect Gales Ferry and Ledyard Center/Highlands water systems.
 - Provide options to meet future water supply needs of the Town.



Project Description

- Extend municipal water from the Gales Ferry area of Ledyard to the Aljen Heights section of Town – Multi-Phased Project
 - Immediate Need
 - Phase 1 - Avery Hill Trailer Park to Ledyard/Preston Town Line.
 - Phase 2 – Aljen Heights subdivision area.
 - Longer Term Need
 - Phase 3 – Route 214 - Interconnects Gales Ferry (Rte. 12) and Ledyard Center (Rte. 117) water systems.
 - Phase 4 – Connects Rte. 214 to Aljen Heights extension.