

BUDGETARY LEVEL OPINION OF CAPITAL AND O&M COSTS ⁽¹⁾		
RECOMMENDED PLAN - SHARED SEWERS WITH DISCHARGE TO EAST LYME - ALL IMPROVEMENTS		
OLD LYME SHORES BEACH ASSOCIATION		
September 27, 2018		
CAPITAL BUY-IN ALTERNATIVE		
	Costs	
Procure Agreements for Recommended Plan, EIE, IMAs & MOUs		
1. Technical Services (Liaison work, EIE response)	\$	26,000
2. Legal and Administrative Services for IMAs & CSA	\$	-
3. Total - Procure Agreements for Recommended Plan (Rounded)	\$	26,000
DEEP Eligible Project Costs ⁽²⁾		
4. Construction Cost- Shared Force Main with Central Pump Station ⁽³⁾	\$	1,753,000
5. Internal OLSBA Sewers	\$	1,838,000
6. Eligible Roadway Cost-Internal Paving Cost ⁽⁴⁾	\$	1,012,000
7. Eligible Storm Drainage at 100% const. cost ⁽⁴⁾	\$	50,000
8. Eligible Technical Services-Design ⁽⁵⁾	\$	1,013,000
9. Legal & Administrative ⁽⁶⁾	\$	-
10. Total - Project Construction Costs (Rounded) ⁽²⁾	\$	5,666,000
DEEP CWF Eligible Project Cost Summary		
11. Procure Approvals for Recommended Plan (Including Liaison and EIE)	\$	26,000
12. Project Construction Costs	\$	5,666,000
13. DEEP CWF 25% Design & Construction (Small Community) Grant Amount	\$	(1,423,000)
14. Total - DEEP CWF Loan Eligible Costs (Rounded) ⁽⁴⁾	\$	4,269,000
DEEP Ineligible Project Costs ⁽⁷⁾		
15. Short Term Financing at 2.5% ⁽⁸⁾		See line 25 below
15a. Legal and Administrative Fees for CWF agreements (2) & DWSRF Closing (1)	\$	134,000
16. Storm Drainage Improvements ⁽⁹⁾ See 7 above	\$	450,000
17. Extensive Road Reconstruction ⁽¹⁰⁾ See 6 Above	\$	-
18. Fire Hydrants (Quantity: 16) ⁽¹¹⁾	\$	32,000
19. Drinking Water System Improvements ⁽¹¹⁾	\$	324,000
20. Buy-In Fee to East Lyme/Waterford/New London ⁽¹⁴⁾	\$	672,000
20a. Technical Services-Design, Permitting & Construction Administration ⁽⁴⁾	\$	191,400
21. TOTAL - DEEP Ineligible Costs (Rounded)	\$	1,803,400
Estimated Local Share		
22. DEEP CWF Loan Eligible Costs ⁽⁴⁾	\$	4,269,000
23. DEEP Ineligible Costs ⁽⁷⁾	\$	1,803,400
24. Estimated Local Cost Share (Rounded)	\$	6,072,000
	Contingency @ 8%	\$ 600,000
25a. Short Term Financing at 2.5% ⁽⁸⁾	\$	91,000
25b. Short Term Financing at 2% for eligible project cost	\$	171,000
26. Estimated Local Cost Share	\$	6,934,000
Net Project Cost Per EDU		
27. Number of EDU's (Properties) Served		192
28. Net Cost Per EDU (Rounded) for Betterment Assessment	\$	36,100
29. Abandonment of Existing Septic and Connection to Service Laterals (15)	\$	3,500
Total Cost Per EDU	\$	39,600
Estimated Annual Capital Cost Per EDU (Rounded) ⁽¹²⁾⁽¹³⁾		\$2,422
Estimated Annual O&M Per EDU ⁽¹⁶⁾		\$309

Notes:

(1) All construction costs developed in 2016 dollars.

(2) Opinion of costs will continue to be refined during subsequent phases. See Facilities Planning Cost Document for circa 2013 Detailed Cost Breakdown.

(3) Project Costs for Shared Infrastructure (Pump Station and Force Main to East Lyme) based upon percentage payment breakdown in Cost Sharing Agreement signed 04/25/2016. Shared Infrastructure costs may be reduced by contributions from the Town of Old Lyme if they participate in the sewerage program. DEEP eligible costs include roadway improvements composed of temporary pavement repair, permanent pavement repair, and pavement mill & overlay to dimensions prescribed by DOT approval on Route 156.

(4) Includes eligible assumed 100% of pavement costs. Assumes cost sharing of force main to East Lyme and central pump station with OCBCA and MBA pursuant to Cost Sharing Agreement percentages. Green Infrastructure storm drainage assumed ineligible for grant/loan CWF funding. Only storm drainage at utility crossings is CWF eligible.

(5) Technical Services During Design and Construction based on 22% of construction cost. Services include engineering design, permitting, topographic survey, test borings, bidding services, construction administration and resident representative services. Technical Services for Water Mains based upon 22% of \$870k construction grant.

(6) Legal and Administrative Costs estimated based on 2% of construction cost. Services include Bond Counsel costs, Finance Director Costs, setup assessment policy, setup user fee policy, create programmatic administrative policies, and miscellaneous legal and administrative costs during design and construction of the project.

(7) Ineligible costs include project costs not directly related to sewer design or construction; including daily WPCA Operating Administrative Costs and construction costs not required for the sewer project. Legal costs other than land acquisition are loan eligible only.

(8) Assume 2.5% short term lending rate and 2 year construction duration.

(9) Assumes green infrastructure and BMP storm drain improvements where possible are ineligible for CWF grant/loan funding

(10) Based on total pavement reconstruction cost provided by Paul Rowean at \$300,000 per street and 100% eligibility allowance in sewer project road restoration confirmed by DEEP.

(11) Assumes 10,800 feet of water main pipe installation. Assume F&O designs water system and CT Water Co. furnishes materials with contractor installing the materials provided by CT Water Co. Costs do not include service connection to curb stop or meter pit.

(12) Annual Capital cost per EDU is over a 20 year period at an annual interest rate of 2%. Does not include connection charge or annual O&M costs.

(13) Capital cost for ineligible assumes 2% loan for 20 year payback through private lending institution

(14) EL and NL buy-ins as negotiated in 2018 and pump station siting fee to Old Lyme based upon information from F. Noe dated May 2017 apportioned by EDU count in Cost Sharing Agreement. Waterford Buy-in fee based upon OLSBA portion of \$40,000 payment.

(15) Includes average cost of gravity service connections from the building to sewer and water stubs in street and abandonment of septic system. Average cost to abandon septic and connect to sewer stub estimated to be \$2,500 but will vary based upon surficial and subsurface site features. \$1,000 per connection to water main estimated. Assumes inspection and permitting charges for connections will be waived by OLSBA WPCA.

(16) Estimated Annual O&M Cost Per EDU will be modified annually and is based on current O&M to East Lyme for conveyance plus share of negotiated contract operations fee to EL.