

ORDER OF MAGNITUDE OPINION OF CAPITAL AND O&M COSTS⁽¹⁾
 RECOMMENDED PLAN - SHARED SEWERS WITH DISCHARGE TO EAST LYME - ALL IMPROVEMENTS
 OLD COLONY BEACH CLUB ASSOCIATION
 May 17, 2013
 O&M SURCHARGE ALTERNATIVE

	Costs
Procure Agreements for Recommended Plan	
1. Technical Services to Procure Stakeholder Agreements (PS Evals, Hyd. Studies)	\$ 24,150
2. Legal and Administrative Services to Procure Stakeholder Agreements (2)	\$ 20,000
3. Total - Procure Agreements for Recommended Plan (Rounded)	\$ 44,000
Project Construction	
4. Construction Cost-Gravity Sewer w/ Central Pump Station ⁽³⁾	\$ 2,428,000
4a. Eligible Roadway Cost-1/2 Route 156 Roadway Cost x 0.5	\$ 331,250
4b. Eligible Roadway Cost-Internal Paving Cost - temp pave only	\$ 584,800
7. Eligible Storm Drainage at 10% const. cost	\$ 23,500
8a. Eligible Technical Services-Design	\$ 472,720
8b. Eligible Technical Services- Construction Administration ⁽⁴⁾	\$ 127,357
8c. Eligible Technical Services-Resident Representation ⁽⁴⁾	\$ 172,307
8d. Eligible Technical Services- Construction Services Later On ⁽⁴⁾	\$ 40,455
9. Legal & Administrative ⁽⁵⁾	
10. Total - Project Construction Costs (Rounded)	\$ 4,100,000
DEEP CWF Eligible Design & Construction Costs	
11. Procure Agreements for Recommended Plan (Including Legal & Admin)	\$ 44,000
12. Project Construction Costs (Including Legal & Admin)	\$ 4,100,000
13. DEEP CWF 25% Design & Construction (Small Community) Grant Amount	\$ (1,056,000)
14. Total - DEEP CWF Loan Eligible Costs (Rounded)⁽⁶⁾	\$ 3,168,000
DEEP Ineligible Costs⁽⁷⁾	
15. Short Term Financing at 2.5% ⁽⁸⁾	
15a. Legal and Administrative Fees	\$ 112,650
16. Storm Drainage Improvements ⁽⁹⁾	\$ 211,500
17. Extensive Road Reconstruction ⁽¹⁰⁾	\$ 916,050
18. Fire Hydrants (Quantity: 16)	\$ -
19. Drinking Water System Improvements ⁽¹¹⁾	\$ -
Buy-In Fee to East Lyme/Waterford/New London ⁽³⁾	\$ 877,000
20. Technical Services-Design, Permitting & Construction Administration ⁽⁴⁾	\$ 324,961
21. TOTAL - DEEP Ineligible Costs (Rounded)	\$ 2,442,000
Estimated Local Share	
22. DEEP CWF Loan Eligible Costs ⁽⁷⁾	\$ 3,168,000
23. DEEP Ineligible Costs	\$ 2,442,000
24. Estimated Local Cost Share (Rounded)	\$ 5,610,000
	Contingency @ 10%
	\$ 666,600
24a. Short Term Financing at 2.5% ⁽⁸⁾	\$ 122,108
Net Capital Cost Per EDU	
25. Estimated Local Cost Share	\$ 6,390,708
26. Number of EDU's (Properties) Served	215
27. Net Cost Per EDU (Rounded)	\$ 29,800
Estimated Annual Capital Cost Per EDU (Rounded)⁽¹²⁾⁽¹³⁾	\$1,022
Estimated Annual O&M Per EDU (Rounded)⁽¹⁴⁾	\$ 255.01

Notes:

- (1) All Phase III costs developed in 2011 dollars.
- (2) Opinion of costs will continue to be refined during subsequent phases. See Facilities Planning Cost Document for more Detailed Cost Breakdown.
- (3) Does not include cost of gravity service connections from the building to sewer stub in street and abandonment of septic system (this cost to be paid by homeowner). Average connection cost to sewer stub estimated to be \$2,000-\$2,500 includes eligible 50% of pavement costs. Actual Connection Fees and aprttrnment breakdown are not defined at this junctiure. Assumes cost sharing of force Main to East Lyme with Old Lyme Shores.
- (4) Technical Services During Design and Construction based on Agreement dated 5/2013. Services include engineering design, permitting, topographic survey, test borings, bidding services, construction administration and resident representative services.
- (5) 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.
- (6) DEEP eligible costs include roadway improvements composed of temporary pavement repair, permanent pavement repair, and pavement mill & overlay to dimensions prescribed by DDT approval. DEEP deems 50% of paving as eligible cost.
- (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 storm drain improvements where possible
- (10) Based on total pavement reconstruction cost provided by Paul Rowan at \$300,000 per street and 50% eligibility allowance in sewer project road restoration.
- (11) Assumes no water main pipe installation.
- (12) Annual cost per EDU is over a 20 year period at an annual interest rate of 2%. Does not include connection to sewer, connection charge, or annual O&M costs.
- (13) Capital cost for ineligible assumes 2% loan for 20 year payback through private lending institution
- (14) Estimated Annual O&M Cost Per EDU is based on current O&M to East Lyme for conveyance p