

**EAST LYME WATER & SEWER COMMISSION
REGULAR MEETING
Tuesday, MAY 24th, 2016
MINUTES**

The East Lyme Water & Sewer Commission held a Regular Meeting on Tuesday, May 24, 2016 at the East Lyme Town Hall, 108 Pennsylvania Avenue, Niantic, CT. Chairman Nickerson called the Regular Meeting to order at 7:00 PM.

PRESENT: Mark Nickerson, Chairman, Steve DiGiovanna, David Jacques, Joe Mingo, Dave Murphy, Carol Russell, Roger Spencer, Dave Zoller

ALSO PRESENT: Scott Bassett, Auditor, RSM LLP
Paul Malmrose, PE, VP Tighe & Bond
Thomas Mahanna, PE, VP Tighe & Bond
Robert Tedeschi, PE, Weston & Sampson
Sarah Bucci, PE, Weston & Sampson
Joe Bragaw, Public Works Director
Brad Kargl, Municipal Utility Engineer
Anna Johnson, Finance Director

FILED IN EAST LYME
CONNECTICUT
May 31 2016 AT 2:15 AM PM
Paul Malmrose
EAST LYME TOWN CLERK

ABSENT: Dave Bond

1. Call to Order

Chairman Nickerson called the Regular Meeting of the East Lyme Water & Sewer Commission to order at 7:00 PM and led the assembly in the Pledge.

2. Auditor Report

Scott Bassett, Auditor with RSM LLP explained the Water & Sewer audit noting that the sewer side had a positive cash flow of \$47,841 and the water side had a positive cash flow of \$89,276. (Attached)

Mr. Mingo asked about money that was borrowed from the sewer funds.

Mr. Bassett said that is part of the general fund.

Mr. Mingo said that the Water department had also borrowed money.

Mr. Bassett said that amount is around \$136,000 due to the sewer department. He noted that the audit pages that they have are specific to the water and sewer department.

Ms. Russell asked if they have assessed their physical health going forward.

Mr. Bassett said that is beyond their scope – they work on assets and history.

3. Approval of Minutes

▪ **Informational Meeting Minutes – April 26, 2016**

Mr. Nickerson called for a motion or any discussion or corrections to the Informational Meeting Minutes of April 26, 2016.

****MOTION (1)**

Mr. DiGiovanna moved to approve the Informational Meeting Minutes of April 26, 2016 as presented.

Mr. Zoller seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

▪ **Regular Meeting Minutes – April 26, 2016**

Mr. Nickerson called for a motion or any discussion or corrections to the Regular Meeting Minutes of April 26, 2016.

****MOTION (2)**

Mr. Zoller moved to approve the Regular Meeting Minutes of April 26, 2016 as presented.

Mr. DiGiovanna seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

4. Delegations

Mr. Nickerson called for delegations.

There were no delegations.

5. Finance Director Report

Ms. Johnson explained the sewer assessment fund and noted in her report that the prison billing was very low for April. May is better but the prison billing will be a challenge going forward.

Mr. Mingo asked about the Gateway apartments.

Mr. Nickerson said that 160 of the apartments are rented and occupied now and as the summer approaches more should be occupied. This should help to offset the prison drop off.

6. Approval of Bills – Attachment B – May 24, 2016

Mr. Nickerson called for a motion on the Well 1A & 2A Treatment Study.

****MOTION (3)**

Mr. DiGiovanna moved to approve payment of the following Well 1A & 2A Treatment Study bills: Tighe & Bond, Inv. #041690150 in the amount of \$30,000.00.

Mr. Spencer seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

Mr. Nickerson called for a motion on the Saunders Point Sewer Study bills.

****MOTION (4)**

Mr. DiGiovanna moved to approve payment of the following Saunders Point Sewer Study bills: Weston & Sampson, Inv. #456190 in the amount of \$1,977.77 and Weston & Sampson, Inv. #457085 in the amount of \$4,436.75.

Mr. Spencer seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

7. Water Project Updates

▪ **Well 1A & 2A Treatment Study – Draft Basis of Design Report Presentation – Tighe & Bond**

Paul Malmrose, PE, VP Tighe & Bond said that the main problem is iron and manganese and not a health issue but rather one of discoloration. He said that most of these facilities are 15-20 years old. He explained the first few pages of the PowerPoint presentation (see Attached) and then introduced Thomas Mahanna, PE, VP Tighe & Bond to present the Well 1A and 2A options.

Mr. Mahanna said that while they had presented three options that they have recommended Option 1 (Alternative 1A-1) for Well 1A at a probable cost of \$3,120,000.00.

Mr. Mingo asked what happened to the treatment facility for Well 1.

Mr. Mahanna said that it still exists but is not being used.

Mr. Mahanna said that they had also looked at three options for Well 2A and that they again recommended Option 1 (Alternative 2A-1) at a probable cost of \$3,540,000.00. The two projects would have a probable cost of \$6.7M and would be based on 20 years of DWSRF loans (low cost) at 2%. He said that the next step would be submitting for the loan application.

Mr. Mingo asked where they would get the money to pay for all of this.
Mr. Mahanna said that the project timeline is almost two (2) years.

Mr. Kargl noted that in looking over the debt schedule that they could not afford the Tighe & Bond Wells 1A & 2A project ((\$6.7M) during the 2018-2019 time frame and they would have to look at working on it differently. He suggested maybe just getting the pipe in with Well 1A as a solution on an interim basis with a cost of around \$2M instead of the currently proposed \$3.2M. They would have to think on this and on how to proceed.

Ms. Johnson noted that with the DWSRF funds that it would be around 2020 that it would hit if they did the one project.

8. Sewer Project Updates

▪ Saunders Point Sewer Study – Draft Plan Presentation – Weston & Sampson

Mr. Kargl said that Weston & Sampson is present to update them on where they are with this study.

Sarah Bucci, PE & Robert Tedeschi, PE with Weston & Sampson explained the PowerPoint presentation (see Attached) noting that this was the first of a series of informational meetings that they would be providing them with as they undertake this study.

Ms. Bucci explained the needs analysis and the ranking matrix.

Mr. Tedeschi said that over the next month or so they will look at the waste flow projections and into how to best develop the sewer route based on the possibilities.

Mr. Kargl said that this is a year long process.

Ms. Russell asked if they are looking at emergency situations.

Ms. Bucci said that Ledge Light Health District keeps track of that and on top of everything. She noted that they have excellent drainage soils at Saunders Point although if there is failure it would go towards the river.

Ms. Russell asked about the ledge in the area and problematic issues.

Ms. Bucci said that one area has ledge and that during the design they would be able to formulate opinions on how to proceed. They are not at that stage yet.

▪ Request for Qualifications – On-call Wastewater Consulting & Engineering Services

Mr. Kargl said that they have narrowed the list of five down to three that they will be interviewing tomorrow. Those being interviewed are: Tighe & Bond, Weston Sampson and Wright Pierce. He said that he would bring their recommendation on which they would like to the next regular meeting.

9. Budget Authorization Request for Water and Sewer

Mr. Bragaw noted that this year they had done fairly well in the sewer area however the Pattagansett Pump Station controls went out and they had to have people there 24/7 to turn it on manually as the controls could not be bought. They did eventually get it running. He said that upgrading the antiquated controls at the two largest pump stations would cost the \$50,000 that they were going to pay the sewer assessment fund. He would like them to utilize money from the \$50,000 in the operating budget to do these replacements/upgrades.

****MOTION (5)**

Mr. Murphy resolved to forego payment back to the Sewer Assessment fund up to \$50,000 from FY 15-16 Sewer Department Operations budget line item #06-01-800-800-801 that was originally intended in the approved budget and reallocate those funds to pay for much needed permanent upgraded controls at the Pattagansett and Niantic Pump Stations and the SCADA system.

Mr. DiGiovanna seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

Mr. Bragaw also explained that there is a need for more dollars in the water department due to the fact that this year has 53 weeks in it and the payroll has to be covered. While they can absorb it on the sewer side he said that they cannot absorb it on the water side and is therefore asking them to forego payment to the sewer assessment fund to get them through operating costs.

****MOTION (6)**

Mr. Murphy resolved to forego payment back to the Sewer Assessment fund in the amount of \$30,814.37 from FY 15-16 Water Department Operations budget line item #07-01-300-500-510 that was originally intended in the approved budget and reallocate funds to offset other line items that need additional funds.

Mr. DiGiovanna seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

10. Correspondence Log

There was no discussion.

11. Chairman's Report

Mr. Nickerson said that he continues to work with Old Lyme on how to proceed with that project.

He again thanked Mr. Bragaw and Mr. Kargl for all their hard work on the various projects before them.

12. Staff Updates

a. Water Department Monthly Report

Mr. Murphy asked if they have hit the allotment for New London.

Mr. Kargl said that they had and that they had exceeded it by some 300,000 gallons so now they will have to see how the summer goes.

b. Sewer Department Monthly Report

There were no comments.

13. ADJOURNMENT

Mr. Nickerson called for a motion to adjourn.

****MOTION (7)**

Mr. DiGiovanna moved to adjourn the May 24, 2016 Regular Meeting of the East Lyme Water & Sewer Commission at 9:04 PM.

Mr. Zoller seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

Respectfully submitted,

Karen Zmitruk,
Recording Secretary

Town of East Lyme, Connecticut

Financial Report

June 30, 2015

THE POWER OF BEING UNDERSTOOD
AUDIT | TAX | CONSULTING

Attachment

*Water & Sewer
Audit
5/24/16*

**RSM**

Town of East Lyme, Connecticut

Statement of Net Position
June 30, 2015

	Governmental Type Activities	Business-Type Activities	Total
Assets			
Cash and cash eEquivalents	\$ 7,058,252	\$ 582,587	\$ 7,640,839
Investments	3,215,161	-	3,215,161
Receivables:			
Property taxes, net of allowance for collection losses	2,038,647	-	2,038,647
Assessments/use charges	4,471,514	409,361	4,880,875
Intergovernmental	850,615	-	850,615
Internal balances	941,851	(941,851)	-
Other assets	177,380	84,822	262,202
Restricted cash	5,253,455	-	5,253,455
Capital assets, not being depreciated	22,241,505	623,015	22,864,520
Capital assets, net of accumulated depreciation	92,934,542	46,129,591	139,064,133
Total assets	139,182,922	46,887,525	186,070,447
Deferred Outflows of Resources			
Deferred pension amounts	777,247	-	777,247
Deferred charges on refundings	1,214,463	-	1,214,463
Total deferred outflows of resources	1,991,710	-	1,991,710
Liabilities			
Accounts payable and accruals	4,829,612	102,183	4,931,795
Accrued interest payable	548,595	-	548,595
Bond anticipation notes payable	740,000	-	740,000
Meter deposits	-	3,795	3,795
Unearned revenue	57,065	-	57,065
Long-term liabilities:			
Due within one year	5,548,540	-	5,548,540
Due in more than one year	63,776,363	-	63,776,363
Total liabilities	75,500,175	105,978	75,606,153
Deferred Inflows of Resources			
Deferred pension amounts	220,528	-	220,528
Total deferred inflows of resources	220,528	-	220,528
Net Position			
Net investment in capital assets	60,368,374	46,752,606	107,120,980
Restricted:			
Culture and recreation	14,673	-	14,673
Unrestricted (deficit)	5,070,882	28,941	5,099,823
Total net position	\$ 65,453,929	\$ 46,781,547	\$ 112,235,476

See Notes to Financial Statements.

Town of East Lyme, Connecticut

Balance Sheet - Governmental Funds
June 30, 2015

	Major Funds				Other Nonmajor Governmental Funds	Total Governmental Funds
	General	Sewer Assessments Fund	Bonded Capital Projects	Capital Nonrecurring Fund		
Assets						
Cash and cash equivalents	\$ 3,924,005	\$ 747,169	\$ 3,524,303	\$ 1,729,152	\$ 1,102,025	\$ 11,026,654
Investments	3,215,161	-	-	-	-	3,215,161
Receivables (net of allowances for collection losses):						
Property taxes	2,038,647	-	-	-	-	2,038,647
Assessments/use charges	52,577	3,606,522	-	-	690,014	4,349,113
Intergovernmental	54,829	-	319,370	370,402	106,014	850,615
Advances to other funds	-	616,294	-	-	-	616,294
Due from other funds	606,855	911,221	133,385	348,969	30,744	2,031,174
Other	136,601	8,579	-	-	32,200	177,380
Total assets	\$ 10,028,675	\$ 5,889,785	\$ 3,977,058	\$ 2,448,523	\$ 1,960,997	\$ 24,305,038
Liabilities						
Accounts payable and accruals	\$ 1,956,071	\$ -	\$ 293,490	\$ 435,510	\$ 692,435	\$ 3,377,506
Due to other funds	79,383	33,346	400,839	416,678	210,904	1,141,150
Unearned revenue	-	-	-	-	57,065	57,065
Bond anticipation notes payable	-	-	740,000	-	-	740,000
Advances from other funds	-	-	616,294	-	-	616,294
Total liabilities	2,035,454	33,346	2,050,623	852,188	960,404	5,932,015
Deferred Inflows of Resources						
Unavailable revenue	1,972,851	3,597,239	319,370	370,402	496,067	6,755,929
Total deferred inflows of resources	1,972,851	3,597,239	319,370	370,402	496,067	6,755,929
Fund Balances (Deficits)						
Nonspendable	-	616,294	-	-	32,200	648,494
Restricted	-	-	1,607,065	1,225,933	14,673	2,847,671
Committed	-	1,642,906	-	-	573,292	2,216,198
Assigned	836,994	-	-	-	-	836,994
Unassigned (deficits)	5,183,376	-	-	-	(115,639)	5,067,737
Total fund balances	6,020,370	2,259,200	1,607,065	1,225,933	504,526	11,617,094
Total liabilities, deferred inflows of resources and fund balances	\$ 10,028,675	\$ 5,889,785	\$ 3,977,058	\$ 2,448,523	\$ 1,960,997	

Amounts reported for governmental activities in the statement of net position are different because:

Capital assets, net of accumulated depreciation purchased in governmental funds are reported as expenditures, however, the statement of net position includes those capital assets among the assets of the Town as a whole.	115,176,047
Deferred inflows of resources - unavailable revenue	6,755,929
Deferred outflows of resources - deferred amounts on refunding	1,214,463
Deferred inflow - pension credit	(220,528)
Deferred outflow - pension expense	777,247
Long-term liabilities, including bonds payable, are not due and payable in the current period and therefore are not reported in the funds.	(69,324,903)
Internal service funds are used by management to charge the costs of risk management to individual funds. The assets and liabilities of the internal service funds are included in governmental activities in the statement of net position.	7,175
Accrued interest payable not recorded in the funds.	(548,595)
Net position of governmental activities	\$ 65,453,929

See Notes to Financial Statements.

Town of East Lyme, Connecticut

Statement of Revenues, Expenditures and Changes in Fund Balances (Deficits) - Governmental Funds
For the Year Ended June 30, 2015

	Major Funds				Other Nonmajor Governmental Funds	Total Governmental Funds
	General	Sewer Assessments Fund	Bonded Capital Projects	Capital Nonrecurring Fund		
Revenues						
Property tax assessments and lien fees	\$ 49,782,485	\$ -	\$ -	\$ -	\$ -	\$ 49,782,485
Intergovernmental	14,231,113	-	582,740	-	1,188,867	16,002,720
Other revenues	-	-	213,154	35,210	-	248,364
Charges for services	7,050,389	1,104,989	-	68,202	3,142,805	11,366,385
Investment income	36,613	854	10,400	2,481	3	50,351
Total revenues	71,100,600	1,105,843	806,294	105,893	4,331,675	77,450,305
Expenditures						
Current:						
General government	6,239,710	-	-	-	-	6,239,710
Public safety	3,807,681	-	-	-	-	3,807,681
Public works	3,894,401	88,825	112,303	1,037,778	1,995,381	7,128,688
Health and welfare	262,123	-	-	-	-	262,123
Culture and recreation	2,332,997	-	-	-	5,000	2,337,997
Education	49,709,355	-	-	-	1,777,711	51,487,066
Capital outlay	1,940,082	-	6,169,794	1,257,502	-	9,367,378
Debt Service:						
Principal retirements	3,617,920	-	-	-	445,963	4,063,883
Interest and other charges	1,351,155	-	-	103,371	-	1,454,526
Total expenditures	73,155,424	88,825	6,282,097	2,398,651	4,224,055	86,149,052
Excess (deficiency) of revenues over (under) expenditures	(2,054,824)	1,017,018	(5,475,803)	(2,292,758)	107,620	(8,698,747)
Other Financing Sources (Uses)						
Transfers in	852,464	-	-	189,000	-	1,041,464
Transfers (out)	(189,000)	(852,464)	-	-	(46,946)	(1,088,410)
Issuance of capital lease	873,014	-	-	-	-	873,014
Issuance of refunding bonds	5,580,000	-	-	-	-	5,580,000
Cash to escrow	(5,716,709)	-	-	-	-	(5,716,709)
Bond premium	264,652	-	-	-	-	264,652
Issuance of drinking water notes	-	-	1,203,458	-	-	1,203,458
Issuance of bond anticipation notes	-	-	315,000	2,640,000	-	2,955,000
Total other financing sources (uses)	1,664,421	(852,464)	1,518,458	2,829,000	(46,946)	5,112,469
Change in fund balances (deficits)	(390,403)	164,554	(3,957,345)	536,242	60,674	(3,586,278)
Fund balances, beginning	6,410,773	2,094,646	5,564,410	689,691	443,852	15,203,372
Fund balances, ending	\$ 6,020,370	\$ 2,259,200	\$ 1,607,065	\$ 1,225,933	\$ 504,526	\$ 11,617,094

See Notes to Financial Statements.

Town of East Lyme, Connecticut

Statement of Net Position - Proprietary Funds
June 30, 2015

	Business-Type Activities Enterprise Funds	Governmental Activities Internal Service Fund
	Sewer Department	
Assets		
Current Assets		
Cash and cash equivalents	\$ 582,587	\$ 1,285,053
Receivables:		
User charges	409,361	-
Other	74,572	122,401
Due from other funds	40,494	60,929
Inventory	10,250	-
Total current assets	<u>1,117,264</u>	<u>1,468,383</u>
Noncurrent Assets		
Capital assets, net of accumulated depreciation	46,752,606	-
Total noncurrent assets	<u>46,752,606</u>	<u>-</u>
Total assets	<u>47,869,870</u>	<u>1,468,383</u>
Liabilities		
Current Liabilities		
Accounts payable	52,752	356,004
Meter deposits	3,795	-
Claims payable	-	1,096,102
Due to other funds	982,345	9,102
Compensated absences	49,431	-
Total liabilities	<u>1,088,323</u>	<u>1,461,208</u>
Net Position		
Net Investment in Capital Assets	46,752,606	-
Unrestricted	28,941	7,175
Total net position	<u>\$ 46,781,547</u>	<u>\$ 7,175</u>

See Notes to Financial Statements.

Town of East Lyme, Connecticut

Statement of Revenues, Expenses and Changes in
Fund Net Position - Proprietary Funds
For the Year Ended June 30, 2015

	Business-Type Activities Enterprise Funds	Governmental Activities Internal Service Fund
	Sewer Department	
Operating Revenues		
Charges for services and other	\$ 1,909,028	\$ 7,472,255
Total operating revenues	<u>1,909,028</u>	<u>7,472,255</u>
Operating Expenses		
General and administrative	78,708	684,296
Labor and maintenance	1,755,756	-
Claims	-	9,303,970
Depreciation	884,368	-
Total operating expenses	<u>2,718,832</u>	<u>9,988,266</u>
Operating (loss)	<u>(809,804)</u>	<u>(2,516,011)</u>
Nonoperating Revenues		
Investment income	-	75
Total nonoperating revenues	<u>-</u>	<u>75</u>
Net (loss) before transfers	<u>(809,804)</u>	<u>(2,515,936)</u>
Transfers and Other Financing Sources		
Transfers in	46,946	-
	<u>46,946</u>	<u>-</u>
Change in net position	<u>(762,858)</u>	<u>(2,515,936)</u>
Net position, beginning	<u>47,544,405</u>	<u>2,523,111</u>
Net position, ending	<u>\$ 46,781,547</u>	<u>\$ 7,175</u>

Prop. Equip

See Notes to Financial Statements.

Town of East Lyme, Connecticut

Statement of Cash Flows - Proprietary Funds
For the Year Ended June 30, 2015

	Business-Type Activities Enterprise Funds	Governmental Activities Internal Service Fund
	Sewer Department	
Cash Flows From Operating Activities		
Receipts from customers and users	\$ 1,819,163	\$ -
Payments to suppliers	(1,259,301)	-
Payment to employees	(512,021)	-
Receipts from premiums	-	7,349,854
Cash paid for claims and administration	-	(9,056,745)
Net cash provided by (used in) operating activities	<u>47,841</u>	<u>(1,706,891)</u>
Cash Flows From Capital and Related Financing Activities		
Acquisition and construction of capital assets	(67,520)	-
Net cash used in capital and related financing activities	<u>(67,520)</u>	<u>-</u>
Cash Flows From Noncapital Financing Activities		
Transfers in	46,946	-
Net cash provided by noncapital financing activities	<u>46,946</u>	<u>-</u>
Cash Flows Provided by Investing Activities		
Investment income	-	75
Net cash provided by investing activities	<u>-</u>	<u>75</u>
Net increase (decrease) in cash and cash equivalents	27,267	(1,706,816)
Cash and Cash Equivalents		
Beginning	555,320	2,991,869
Ending	<u>\$ 582,587</u>	<u>\$ 1,285,053</u>

*What's not in here
nothing del to / of recoverable
cost in
- here*

(Continued)

Town of East Lyme, Connecticut

Statement of Cash Flows - Proprietary Funds (Continued)
For the Year Ended June 30, 2015

	Business-Type Activities Enterprise Funds	Governmental Activities Internal Service Fund
	Sewer Department	
Reconciliation of Operating Loss to Net		
Cash Provided by (Used in) Operating Activities		
Operating loss	\$ (809,804)	\$ (2,516,011)
Adjustments to reconcile operating loss to net cash provided by (used in) operating activities:		
Depreciation	884,368	-
(Increase) decrease in:		
Inventory	(100)	-
Receivables	(89,865)	(122,401)
Due from other funds	15,524	-
Increase (decrease) in:		
Accounts and other payables	43,162	928,164
Due to other funds	4,556	3,357
Net cash provided by (used in) operating activities	\$ 47,841	\$ (1,706,891)

See Notes to Financial Statements.

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 4. Capital Assets

Capital asset activity for the year ended June 30, 2015 was as follows:

	Balance July 1, 2014	Increases	Decreases	Balance June 30, 2015
Governmental activities				
Capital assets, not being depreciated:				
Land	\$ 13,308,047	\$ 280,000	\$ -	\$ 13,588,047
Construction in progress	6,443,138	4,327,483	(2,117,163)	8,653,458
Total capital assets, not being depreciated	19,751,185	4,607,483	(2,117,163)	22,241,505
Capital assets, being depreciated:				
Buildings and improvements	124,038,939	1,293,114	-	125,332,053
Machinery and equipment	7,082,132	546,583	(179,550)	7,449,165
Vehicles	7,964,648	409,237	-	8,373,885
Infrastructure	20,576,168	1,748,990	-	22,325,158
Water distribution systems	27,112,388	2,306,278	-	29,418,666
Total capital assets, being depreciated	186,774,275	6,304,202	(179,550)	192,898,927
Total capital assets	206,525,460	10,911,685	(2,296,713)	215,140,432
Less accumulated depreciation for:				
Buildings and improvements	58,617,480	2,140,905	-	60,758,385
Machinery and equipment	4,398,576	267,041	(161,598)	4,504,019
Vehicles	3,794,001	471,751	-	4,265,752
Infrastructure	16,595,805	1,300,059	-	17,895,864
Water distribution systems	11,944,338	596,027	-	12,540,365
Total accumulated depreciation	95,350,200	4,775,783	(161,598)	99,964,385
Total capital assets, being depreciated, net	91,424,075	1,528,419	(17,952)	92,934,542
Governmental activities capital assets, net	\$ 111,175,260	\$ 6,135,902	\$ (2,135,115)	\$ 115,176,047

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 4. Capital Assets (Continued)

	Balance July 1, 2014	Increases	Decreases	Balance June 30, 2015
Business-type activities				
Capital assets, not being depreciated:				
Land	\$ 608,210	\$ -	\$ -	\$ 608,210
Construction in progress	14,805	-	-	14,805
Total capital assets, not being depreciated	623,015	-	-	623,015
Capital assets, being depreciated:				
Buildings and improvements	5,090,394	-	-	5,090,394
Machinery and equipment	616,216	44,520	-	660,736
Sewer distribution systems	58,948,453	23,000	-	58,971,453
Total capital assets, being depreciated	64,655,063	67,520	-	64,722,583
Total capital assets	65,278,078	67,520	-	65,345,598
Less accumulated depreciation for:				
Buildings and improvements	1,833,731	91,627	-	1,925,358
Machinery and equipment	544,610	8,855	-	553,465
Sewer distribution systems	15,330,283	783,886	-	16,114,169
Total accumulated depreciation	17,708,624	884,368	-	18,592,992
Total capital assets, being depreciated, net	46,946,439	(816,848)	-	46,129,591
Total business-type activities capital assets, net	\$ 47,569,454	\$ (816,848)	\$ -	\$ 46,752,606

Depreciation expense was charged to functions/programs of the Town as follows:

Governmental activities	
General government	\$ 1,587,616
Public safety	290,881
Public works	865,427
Recreation	72,129
Education	1,959,730
Total depreciation expense - governmental activities	\$ 4,775,783
Business-type activities	
Sewer	\$ 884,368
Total depreciation expense - business-type activities	\$ 884,368

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 5. Interfund Receivables, Payables and Transfers

A summary of interfund balances as of June 30, 2015 is presented below:

	Due From Other Funds	Due To Other Funds
General Fund	\$ 606,855	\$ 79,383
Sewer Assessments Fund	911,221	33,346
Bonded Capital Projects Fund	133,385	400,839
Capital Nonrecurring Fund	348,969	416,678
Non-Major Governmental Funds and other	91,673	220,006
Enterprise Funds	40,494	982,345
Grand total	\$ 2,132,597	\$ 2,132,597

The outstanding balances between funds result mainly from the time lag between the dates that (1) interfund goods and services are provided or reimbursable expenditures occur, (2) transactions are recorded in the accounting system, and (3) payments between funds are made.

\$616,294 due to the Sewer Assessments Fund from the Bonded Capital Project Fund is a long-term advance as it will not be paid in the short-term.

Interfund transfers during the year ended June 30, 2015 were as follows:

	Transfers From Other Funds	Transfers To Other Funds
General Fund	\$ 852,464	\$ 189,000
Sewer Assessments Fund	-	852,464
Capital Nonrecurring Fund	189,000	-
Water Department	-	46,946
Enterprise Funds	46,946	-
Grand total	\$ 1,088,410	\$ 1,088,410

Transfers are used to account for financing by the General Fund of programs accounted for in other funds in accordance with budgetary amortizations, and from the Sewer Assessment Fund to the General Fund to pay sewer notes and bonds. Nonmajor fund transfers to Enterprise Funds are for construction of capital assets.

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 6. Unearned Revenue/Deferred Inflows of Resources

Governmental funds report deferred inflows of resources in connection with receivables for revenues that are not considered to be available to liquidate liabilities of the current period. Governmental funds and governmental activities report unearned revenue in connection with resources that have been received, but not yet earned. At the end of the current fiscal year, the various components of unearned revenue and deferred inflows of resources reported in the governmental funds and governmental activities were as follows:

	Deferred Inflows	Unearned Revenues
General Fund:		
Delinquent property taxes receivable and interest	\$ 1,928,995	\$ -
Intergovernmental	5,309	-
Other	38,547	-
Sewer Assessments Fund:		
Sewer assessments not yet due	3,597,239	-
Bonded Capital Projects:		
Intergovernmental	319,370	-
Capital Nonrecurring Fund:		
Intergovernmental	370,402	-
Other Nonmajor Governmental Funds:		
Water usage unbilled	496,067	-
Grant drawdowns prior to meeting all eligibility requirements	-	57,065
Total deferred inflows/unearned revenue	\$ 6,755,929	\$ 57,065

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 7. Long-Term Liabilities (Continued)

General obligation bonds - governmental activities: As of June 30, 2015, the outstanding general obligation bonds of the Town were as follows:

Purpose	Original Amount	Date of Issue	Date of Maturity	Interest Rate	Balance July 1, 2014	Additions	Deductions	Refunded	Balance June 30, 2015
General Purpose									
CIP Var, Darrow, Roads	\$ 6,970,000	7/26/12	7/25/32	2.0-4.0%	\$ 6,970,000	\$ -	\$ -	\$ -	\$ 6,970,000
Open Space & Radio Upgrade	1,295,000	2/2/12	7/15/29	2.0-3.0%	1,295,000	-	-	-	1,295,000
TIF, Tech, & CIP	135,000	4/18/11	7/15/16	2.0-5.0%	64,000	-	32,000	-	32,000
Land Acq, Road, Fire Pump	3,860,000	2/9/11	2/9/31	2.0-5.0%	3,685,000	-	175,000	3,335,000	175,000
Open Space	918,000	2/10/10	7/15/26	2.0-5.0%	787,000	-	74,000	-	713,000
Radio System Upgrade	1,105,000	7/16/09	7/15/30	3.5-5.0%	50,000	-	50,000	-	-
Ref Var, Athletic Complex	6,930,000	7/24/14	7/15/30	2.0-4.0%	-	6,930,000	-	-	6,930,000
Total general purpose					12,851,000	6,930,000	331,000	3,335,000	16,115,000
Schools									
CIP Culinary, Music Wall, Var	750,000	7/26/12	7/15/32	.65% - 3.1%	750,000	-	-	-	750,000
HS Roof & School Reno	1,693,000	2/2/12	7/15/28	2.0-3.0%	1,693,000	-	-	-	1,693,000
ELMS, Roof, School CIP	6,876,000	4/18/11	7/15/21	2.0-5.0%	5,167,000	-	762,000	-	4,405,000
ELMS, HS Roof & Ren Ref	7,785,000	2/10/10	7/15/24	2.0-5.0%	6,544,000	-	767,000	-	5,777,000
ELHS & Pool Refunding	3,969,000	7/16/09	7/15/19	3.0-4.0%	2,280,000	-	464,000	1,816,000	-
CO Roof, Tennis Court, Network	1,774,000	7/24/14	7/15/30	2.0-4.0%	-	1,774,000	-	-	1,774,000
Total schools					16,434,000	1,774,000	1,993,000	1,816,000	14,399,000
Sewer									
Pine Grove Sewer	580,000	2/2/12	7/15/28	2.0-3.0%	580,000	-	-	-	580,000
Sewer Const. - Ref 92 7 95	4,955,000	4/18/11	7/15/18	2.0-5.0%	3,170,000	-	765,000	-	2,405,000
Pine Grove Sewer Refund	2,182,000	2/10/10	7/15/26	2.0-5.0%	1,889,000	-	174,000	-	1,715,000
Sewer Const (Colton Rd)-Ref	531,000	7/16/09	7/15/19	3.0%	305,000	-	63,000	242,000	-
Clean Water Phase III	8,588,195	12/30/94	12/21/14	2.0%	440	-	-	-	440
Logger Hill, Ref	916,000	7/24/14	7/15/30	2.0-4.0%	-	916,000	-	-	916,000
Total sewers					5,944,440	916,000	1,002,000	242,000	5,616,440
Water Bonds									
DWSRF 2012-7010	360,516	6/30/13	12/31/32	2.0%	335,043	-	15,121	-	319,922
Various Water Projects	1,000,000	7/26/12	7/15/32	2.0-4.0%	1,000,000	-	-	-	1,000,000
2012 Ref Bonds 2009	3,762,000	2/12/12	7/15/29	2.0-3.0%	3,762,000	-	-	-	3,762,000
DWSRF/ARRA 2010-8003	401,454	12/29/11	6/30/31	2.06%	346,515	-	17,269	-	329,246
Water Bonds - ref 98	239,000	4/18/11	7/15/16	2.0-5.0%	114,000	-	56,000	-	58,000
Various Water Projects	4,180,000	7/16/09	7/15/30	3.5-5.0%	200,000	-	200,000	-	-
Water Ref 03 Bonds	200,000	7/16/09	7/15/19	3.0-4.0%	115,000	-	23,000	92,000	-
Refunding	90,000	7/24/14	7/15/30	2.0-4.0%	-	90,000	-	-	90,000
DWSRF 2013-7022	6,526,492	6/30/15	6/30/34	2.0%	5,323,034	1,203,458	326,325	-	6,200,167
Total water					11,195,592	1,293,458	637,715	92,000	11,759,335
Total bonds/notes - governmental activities					\$ 46,425,031	\$ 10,913,458	\$ 3,963,715	\$ 5,485,000	\$ 47,889,774

W/losser low int. loans to be pt. over 20yrs.

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 7. Long-Term Liabilities (Continued)

The following is a summary as of June 30, 2015, of the future principal and interest requirements for the Town's bond indebtedness - governmental activities excluding the bond anticipation notes and drinking water notes:

Fiscal Year Ending	Principal	Interest	Total
2016	\$ 4,000,000	\$ 1,218,448	\$ 5,218,448
2017	4,020,000	1,082,998	5,102,998
2018	4,175,000	953,773	5,128,773
2019	3,425,000	839,998	4,264,998
2020	2,925,000	749,552	3,674,552
2021-2025	11,470,000	2,515,433	13,985,433
2026-2030	7,965,000	1,041,835	9,006,835
2031-2035	3,060,440	185,571	3,246,011
Total	\$ 41,040,440	\$ 8,587,608	\$ 49,628,048

Bond anticipation notes and subsequent event: The Town has \$3,695,000 of tax-exempt general obligation bond anticipation notes (BANS) outstanding as of June 30, 2015. The notes bear interest at 1.0%. The Notes matured on July 21, 2016.

Bond anticipation note transactions for the year ended June 30, 2015 were as follows:

Outstanding, July 1, 2014	\$ 5,120,000
New borrowings	3,695,000
Repayments	(5,120,000)
Outstanding, June 30, 2015	<u>\$ 3,695,000</u>
Reported as:	
Long-term debt	<u>\$ 2,955,000</u>
Short-term debt	<u>\$ 740,000</u>

On July 9, 2015, the Town issued \$6,190,000 of general obligation bonds. Bond anticipation notes of \$2,955,000 at June 30, 2015, with an original maturity of July 21, 2015, were paid off and permanently financed with this issue. The bonds have principal and interest payments ranging from \$325,000 to \$365,000, with interest ranging from 2.0%-4.0% and mature on July 15, 2035. In addition, the Town reissued \$740,000 of General Obligation Bond Anticipation Notes with an interest rate of 1.25% and due to mature on July 21, 2016.

Town of East Lyme, Connecticut

Notes to Financial Statements

Note 7. Long-Term Liabilities (Continued)

Drinking water fund notes: The Town has drinking water notes in the amount of \$6,849,334. The notes bear interest at 2.0%, are payable in equal monthly installments and mature on December 31, 2034. The following is a summary as of June 30, 2015, of the future principal and interest requirements for the Town's drinking water notes - governmental activities:

Fiscal Year Ending	Principal	Interest	Total
2016	\$ 306,758	\$ 118,807	\$ 425,565
2017	312,960	113,283	426,243
2018	319,288	107,646	426,934
2019	325,744	101,897	427,641
2020	332,331	96,031	428,362
2021-2025	1,765,206	387,937	2,153,143
2026-2030	1,951,029	222,477	2,173,506
2031-2035	1,536,018	48,046	1,584,064
Total	\$ 6,849,334	\$ 1,196,124	\$ 8,045,458

Bonds authorized but unissued: Total authorized but unissued debt at June 30, 2015 consists of the following:

General purpose	\$ 8,495,000
Schools	256,066
Sewer	4,366,046
	<u>\$ 13,117,112</u>

Legal debt limit: The Town's indebtedness (including authorized but unissued bonds and overlapping debt), net of principal reimbursements expected from the State, does not exceed the legal debt limitation as required by the Connecticut General Statutes as reflected in the following schedule:

Category	Debt Limit	Indebtedness	Balance
General purpose	\$ 112,207,232	\$ 27,340,000	\$ 84,867,232
Schools	224,414,465	15,620,066	208,794,399
Sewers	187,012,054	9,982,486	177,029,568
Urban renewal	162,077,113	-	162,077,113
Pension deficit	149,609,643	-	149,609,643

The total overall statutory debt limit for the Town is equal to seven times annual receipts from taxation, or approximately \$349,089,167.

Capital lease: At June 30, 2015, the Town and the Board of Education are committed under leases for vehicles and miscellaneous instruments. These lease agreements qualify as capital leases for accounting purposes (title transfers at the beginning of the lease term) and, therefore, have been recorded at the present value of the future minimum lease payments as of the date of their inception. The equipment is carried at approximately \$4,100,000, with approximately \$2,000,000, in accumulated depreciation.

Town of East Lyme, Connecticut

Combining Balance Sheet
 Nonmajor Governmental Funds
 June 30, 2015

	Special Revenue				Permanent	Total Nonmajor Funds
	Water Department	School Lunch Fund	Special Education Grant Fund	Historic Preservation Fund	Fund McCook Memorial Fund	
Assets						
Cash	\$ 952,791	\$ 41,499	\$ 106,824	\$ -	\$ 911	\$ 1,102,025
Intergovernmental Receivables	2,123	41,069	62,822	-	-	106,014
Assessments/user Charges	690,014	-	-	-	-	690,014
Inventory	32,200	-	-	-	-	32,200
Due from Other Funds	16,071	-	-	14,673	-	30,744
Total assets	\$ 1,693,199	\$ 82,568	\$ 169,646	\$ 14,673	\$ 911	\$ 1,960,997
Liabilities						
Accounts payable	\$ 455,586	\$ 198,207	\$ 38,642	\$ -	\$ -	\$ 692,435
Due to other funds	136,054	-	73,939	-	911	210,904
Unearned revenue	-	-	57,065	-	-	57,065
Total liabilities	591,640	198,207	169,646	-	911	960,404
Deferred Inflows of Resources						
Unavailable revenues	496,067	-	-	-	-	496,067
Total deferred inflows of resources	496,067	-	-	-	-	496,067
Fund Balances (Deficits)						
Nonspendable	32,200	-	-	-	-	32,200
Restricted	-	-	-	14,673	-	14,673
Committed	573,292	-	-	-	-	573,292
Unassigned	-	(115,639)	-	-	-	(115,639)
Total fund balances (deficits)	605,492	(115,639)	-	14,673	-	504,526
Total liabilities, deferred inflows of resources and fund balances	\$ 1,693,199	\$ 82,568	\$ 169,646	\$ 14,673	\$ 911	\$ 1,960,997

Town of East Lyme, Connecticut

Combining Statement of Revenues, Expenditures and Changes in Fund Balances (Deficits)
 Nonmajor Governmental Funds
 For the Year Ending June 30, 2015

	Special Revenue				Permanent Fund	Total Nonmajor Funds
	Water Department	School Lunch Fund	Special Education Grant Fund	Historic Preservation Fund	McCook Memorial Funds	
Revenues						
Intergovernmental	\$ -	\$ 297,371	\$ 886,496	\$ 5,000	\$ -	\$ 1,188,867
Charges for services	2,530,617	604,555	-	7,633	-	3,142,805
Interest income	3	-	-	-	-	3
Total revenues	2,530,620	901,926	886,496	12,633	-	4,331,675
Expenditures						
Current:						
Culture and recreation	-	-	-	5,000	-	5,000
Public works	1,995,381	-	-	-	-	1,995,381
Education	-	891,215	886,496	-	-	1,777,711
Debt service	445,963	-	-	-	-	445,963
Total expenditures	2,441,344	891,215	886,496	5,000	-	4,224,055
Excess (deficiency) of revenues over (under) expenditures	89,276	10,711	-	7,633	-	107,620
<i>Excess</i>						
Other Financing Sources (Uses)						
Transfers (out)	(46,946)	-	-	-	-	(46,946)
Total other financing sources (uses)	(46,946)	-	-	-	-	(46,946)
Change in fund balances (deficits)	42,330	10,711	-	7,633	-	60,674
Fund Balances (Deficits) Beginning						
	563,162	(126,350)	-	7,040	-	443,852
Fund Balances (Deficits) Ending						
	\$ 605,492	\$ (115,639)	\$ -	\$ 14,673	\$ -	\$ 504,526

Town of East Lyme, Connecticut

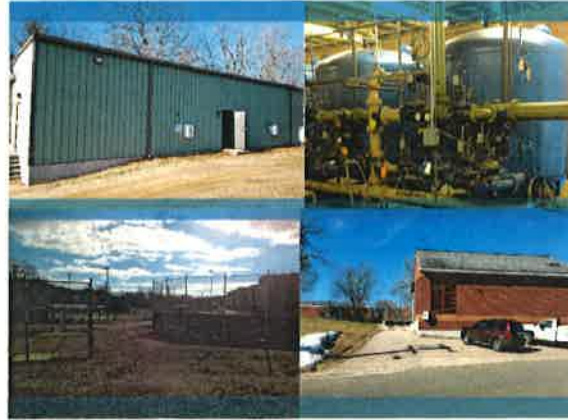
Capital Assets Used in the Operation of Governmental Funds
Schedule by Category
June 30, 2015

Governmental Funds Capital Assets	
Land	\$ 13,588,047
Construction in progress	8,653,458
Buildings and improvements	125,332,053
Machinery and equipment	7,449,165
Vehicles	8,373,885
Infrastructure	22,325,158
Water distribution system	<u>29,418,666</u>
Total governmental funds capital assets	<u><u>\$ 215,140,432</u></u>

Town of East Lyme Water and Sewer Commission

Well 1A and 2A Treatment Study

Public Meeting
May 24, 2016



Tighe&Bond

Basis of Design Report

- Tighe & Bond prepared a Draft Basis of Design Report for the Water and Sewer Commission (May 2016)
- Evaluated three (1A-1, 1A-2, & 1A-3) alternatives for treatment at Well 1A
- Evaluated three (2A-1, 2A-2, & 2A-3) alternatives for treatment at Well 2A
- Inspected existing facilities and included costs for rehabilitation
- Further developed two selected alternatives (1A-1 & 2A-1) as basis of design for facilities upgrade





Tighe&Bond

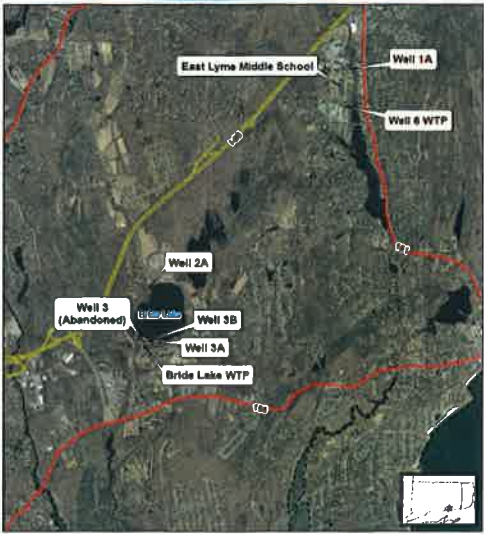
Attachment - submitted w/ 8 Well 1A-2A 5/24/16



Water Quality Overview

	Iron (mg/L)	Manganese (mg/L)
<p><i>Secondary Max. Contaminant Level</i> ← SMCL</p>	0.3	0.05
Well 1A	0.42	0.31
Well 2A	0.02	0.40

Well Locations for Study



Treatment Alternatives Evaluated for Well 1A

3 options

- **Alternative 1A-1:** Connect Well 1A to Well 6 WTP, and increase Well 6 WTP capacity for combined flow of 1,110 gpm
- **Alternative 1A-2:** Connect Well 1A to Well 6 WTP, and increase Well 6 WTP capacity for Well 1A flow only (805 gpm)
- **Alternative 1A-3:** Construct new WTP at Well 1A with a capacity of 805 gpm



Well 1A

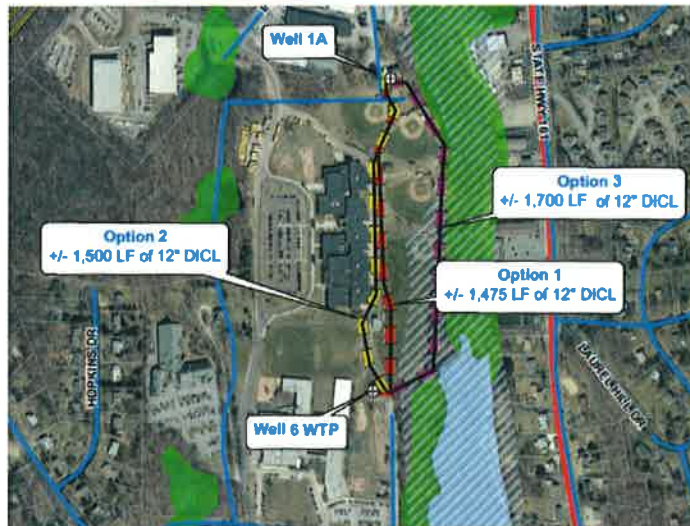


Tighe&Bond

Water Main Route Options Well 1A to Well 6 WTP

Rec. 1st.

Recommend Option 1



Tighe&Bond

Well 1A Recommendation

Alternative 1A-1:

Connect Well 1A to Well 6 WTP, and increase Well 6 WTP capacity for combined flow of 1,110 gpm.

- Construct Transmission Water Main from Well 1A to Well 6 WTP along access roads and between the baseball fields
- Install additional greensand filter vessel at Well 6 WTP
- Install Greensand Plus media in all filters and modify existing chemical feed systems

Opinion of Probable Cost to complete: **\$3,120,000**



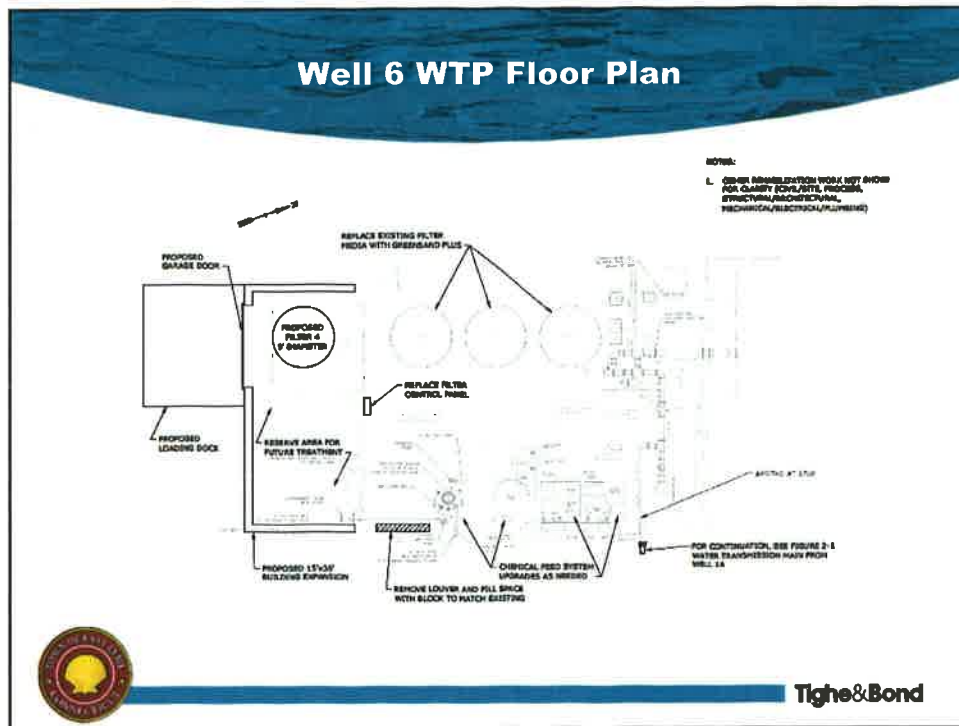
Tighe&Bond

Well 1A Benefit/Cost Ratios

Benefit to Cost Ratios Well 1A Treatment Alternatives					
Alt.	Description	Benefit Rating	Project Cost	Annual Loan Payment	Benefit/Cost Ratio
1A-1	Connect Well 1A to Well 6 WTP; increase WTP to provide capacity for combined flow of 1,105 gpm	84%	\$3.12MM	\$188,760	4.46
1A-2	Connect Well 1A to Well 6 WTP and provide capacity of 805 gpm	76%	\$2.00MM	\$121,000	6.29
1A-3	Construct new WTP at Well 1A with capacity of 805 gpm	67%	\$6.59MM	\$398,695	1.68




Tighe&Bond




Well 2A

Treatment Alternatives Evaluated for Well 2A

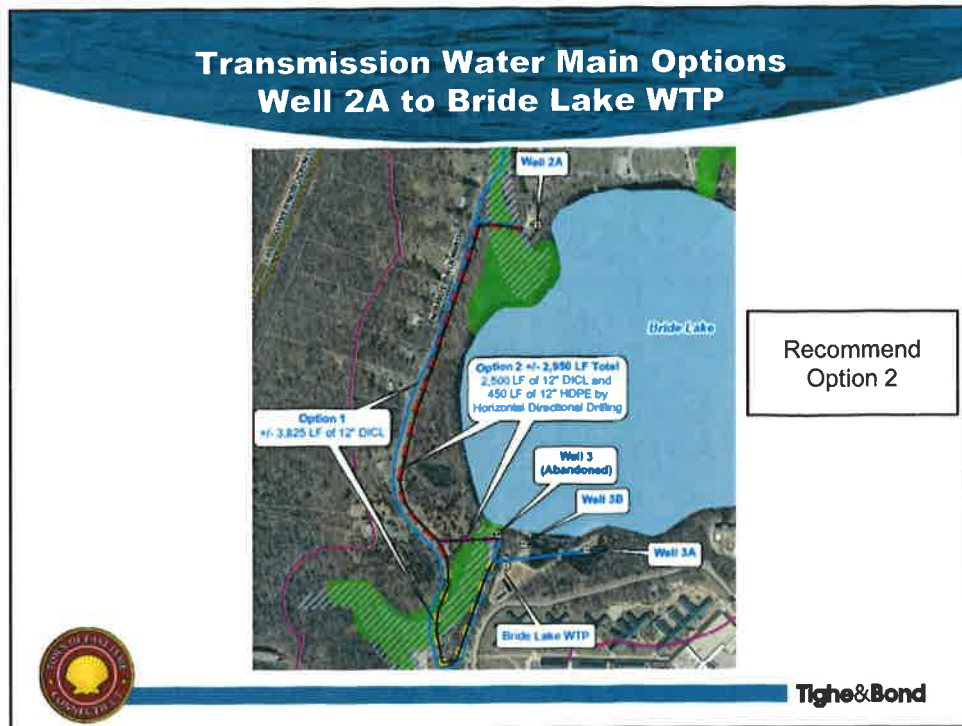
- **Alternative 2A-1:** Connect Well 2A to Bride Lake WTP, and increase Bride Lake WTP capacity for a combined flow of 1,705 gpm from Wells 2A, 3A and 3B.
- **Alternative 2A-2:** Connect Well 2A to Bride Lake WTP, and increase Bride Lake WTP for combined flow from Well 2A, 3A and 3B. Construct new chemical pretreatment building.
- **Alternative 2A-3:** Construct a new WTP at Well 2A with a capacity of 500 gpm.



Well 2A



Tight & Bond



Well 2A Recommendations

Alternative 2A-1:

Connect Well 2A to Bride Lake WTP, and increase Bride Lake WTP capacity for a combined flow of 1,705 gpm from Wells 2A, 3A and 3B.

- Construct transmission water main from Well 2A along North Bride Brook Road to the Bride Lake WTP access road
- Install Greensand Plus media in remaining filters at Bride Lake WTP
- Upgrade process controls, communication equipment, and chemical feed systems at the Bride Lake WTP.

Opinion of Probable Cost to complete: \$3,540,000

3,540,000
 3,120,000

 \$ 6,660,000
 total

Well 2A Benefit/Cost Ratios

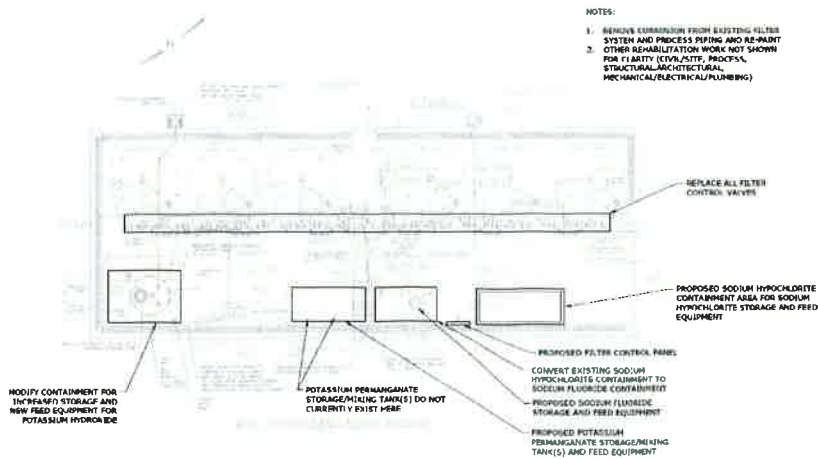
Benefit to Cost Ratios Well 2A Treatment Alternatives

Alt.	Description	Benefit Rating	Project Cost	Annual Loan Payment	Benefit/Cost Ratio
2A-1	Connect Well 2A to Bride Lake WTP and provide capacity for combined flow of 1,705 gpm	83%	\$3.54MM	\$214,170	3.85
2A-2	Connect Well 2A to Bride Lake WTP, construct chemical feed building and provide capacity for flow of 1,705 gpm	92%	\$5.03MM	\$304,013	3.04
2A-3	Construct new WTP at Well 2A with capacity of 500 gpm	70%	\$6.62MM	\$400,510	1.74



Tighe&Bond

Bride Lake WTP Floor Plan



Tighe&Bond

Recommendations Summary

Well 1A Recommendation:

- **Alternative 1A-1: Connect Well 1A to Well 6 WTP, expand Well 6 WTP capacity for combined flow of 1,110 gpm and rehabilitate Well 6 WTP.**
- **Opinion of Probable Cost to complete alternative: \$3,120,000**

Well 2A Recommendation:

- **Alternative 2A-1: Connect Well 2A to Bride Lake WTP, and expand Bride Lake WTP capacity for a combined flow of 1,705 gpm from Wells 2A, 3A and 3B.**
- **Opinion of Probable Cost to complete alternative: \$3,540,000**



Tighe&Bond

Project Cost Summary

Description	Well 1A Project	Well 2A Project	Total Costs
Capital Costs	\$3,120,000	\$3,540,00	\$6,660,000
Annual Debt Service	\$188,760	\$214,170	\$402,930
O&M Cost Increase	\$24,000	\$24,000	\$48,000



Tighe&Bond

Proposed Project Schedule

Task	Schedule
Treatment Study	February 2016 - June 2016
Final Design	July 2016 - February 2017
Bidding & Award	February 2017 - May 2017
Construction	May 2017 - April 2018

What's Next: SRF Submission – Loan Application



Tighe&Bond

Discussion



Tighe&Bond

Saunders Point Wastewater Facilities Plan



Town of East Lyme Water & Sewer Commission

May 24, 2016

| *Weston&Sampson*

Presenters

Robert Tedeschi, PE
Team Leader

Sarah Bucci, PE
Project Engineer

| *Weston&Sampson*

5/24/16

Attachment submitted W&S - Saunders Pt. Sewer Study

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side

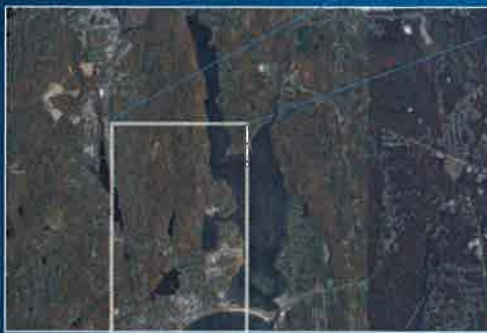
Scope of Services

- 2.01 Review of Existing Planning Documents and Mapping
- 2.02 Prepare Base Mapping
- 2.03 Assess Current Conditions
 - A. Inventory of Existing Planning Area General Conditions
 - B. Existing On-Site Subsurface Disposal Systems Evaluation
 - C. Needs Analysis**
- 2.04 Assess Future Conditions
- 2.05 Wastewater Flow Projections
- 2.06 Review Wastewater Alternatives
- 2.07 Develop 2 Alternatives
- 2.08 Final Wastewater Facility Plan

Saunders Point Wastewater Facilities Plan



Saunders Point

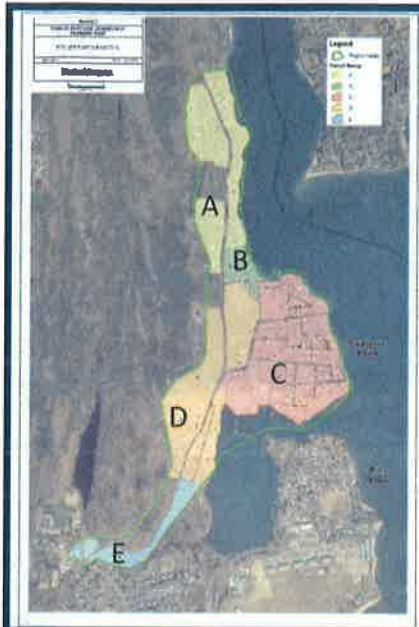


Niantic River – East Lyme, Connecticut



Saunders Point Area – Existing Infrastructure





Defining Areas of Needs

- Location
- Parcel Size
- Environmental Conditions
- Historic Precedent

Identifying Areas of Similar Need in Saunders Point

Weston&Sampson



Area A – Quarry Dock Rd

- Northern Most Area
- Properties up Quarry Dock Road
- Average Parcel Size = 0.75 acres

Identifying Areas of Similar Need in Saunders Point

Weston&Sampson

Area B – Ledge Road



- Historically defined in 1985 Facilities Plan
- Properties on and near Ledge Road
- Average Parcel Size = 0.28 acres
- Shallow Soil and Rock Outcroppings



Identifying Areas of Similar Need in Saunders Point

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Area C – Saunders Point



- Eastern portion into Niantic River
- Excessively Drained Soils
- Low Elevation
- Average Parcel Size = 0.29 acres

Identifying Areas of Similar Need in Saunders Point

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Area D – Central Oswegatchie Hills Road

- Central Project Area
- Larger Parcel Size Properties
- Average Parcel Size = 0.83 acres

Identifying Areas of Similar Need in Saunders Point

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Area E – Southern Oswegatchie Hills Road

- Southern Most Area
- Low density housing
- Average Parcel Size = 0.55 acres

Identifying Areas of Similar Need in Saunders Point

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Sanitation Needs Analysis

- Environmental Impact
- Socio-economic Impact

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Environmental Impact

- Septic Failures and Repairs
- Parcel Size (Septic Drainage Area)
- National Diversity Database (CTDEEP)
- Flood Zones (FEMA)
- Wetland Proximity
- Soil Drainage – Impact to Environment
- Aquifer Protection

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Socio-Economic Impact

- Building Density
- Historic Sites
- Drinking Water Access / Wells
- Soil Drainage – Impact to Community

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Ranking Matrix

Needs Areas	C	B	D	A	E
Avg. Parcel Size Ranking	4	5	2	3	1
Building Density Rank	5	4	3	2	1
# of Small Parcels Rank	5	4	3	2	1
# of Failures and Repairs Rank	5	4	3	2	1
National Diversity Rank	4	5	2	3	1
100 Yr Flood Zone Rank	2	3	5	4	1
Soil Rank Socioeconomic	2	1	3	4	5
Historic Site Rank	4	1	5	4	1
TOTAL	31	27	26	24	12

Greatest Need ← → Least Need



Needs Area Rankings

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