

EAST LYME WATER AND SEWER COMMISSION  
AGENDA  
September 27, 2022  
7:00 PM

East Lyme Town Hall  
(Upstairs Main Meeting Room)

Hybrid Meeting (Zoom Link on Next Page)

1. Call to Order / Pledge of Allegiance
2. Approval of Minutes
  - a. Regular Meeting Minutes – August 23, 2022
3. Delegations
4. Billing Adjustments/Disputes
5. Approval of Bills
6. Finance Director Report
7. Discussion on Water and Sewer Rates and Set Public Hearing Date
8. Discussion and Possible Action on Well 2 Water Main Construction
9. Discussion and Possible Action on Purchase of Sewer Utility Truck
10. Project Updates
  - a. Meter Replacement Project
  - b. Discussion and Possible Action on Niantic Pump Station Hazard Mitigation Application
11. Correspondence Log
12. Chairman's Report
13. Staff Updates
  - a. Water Department Monthly Report
  - b. Sewer Department Monthly Report
14. Future Agenda Items
  - a. Rate Analysis Subcommittee
15. Adjournment

FILED

Sept 27, 2022 AT 1:45 AM/PM  
*Brooke Green* ATC  
EAST LYME TOWN CLERK

East Lyme is inviting you to a scheduled Zoom meeting.

Topic: Water & Sewer Commission Meeting

Time: Sep 27, 2022 07:00 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/84421701063>

Meeting ID: 844 2170 1063

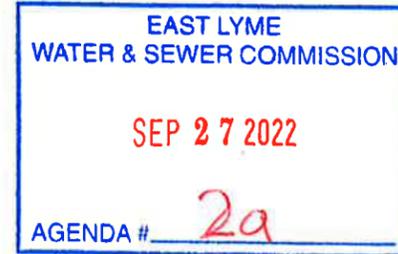
**EAST LYME WATER & SEWER COMMISSION  
REGULAR MEETING  
TUESDAY, AUGUST 23rd, 2022  
MINUTES**

The East Lyme Water & Sewer Commission held a Regular Meeting on Tuesday, August 23rd, 2022. Chairman Seery called the Regular Meeting to order at 7:00 PM.

**PRESENT:** Kevin Seery, Chairman, Dave Bond, Steve DiGiovanna, Dave Jacques, Dave Murphy, Carol Russell, Roger Spencer, Dave Zoller

**ALSO PRESENT:** James Quarto, for 138 Boston Post Road  
Joe Bragaw, Public Works Director  
Ben North, Municipal Utility Engineer  
Anna Johnson, Finance Director

**ABSENT:** Joe Mingo



**1. Call to Order / Pledge of Allegiance**

Chairman Seery called the Regular Meeting of the East Lyme Water & Sewer Commission to order at 7:00 PM and asked Charles Ambulos to lead the assembly in the Pledge.

**2. Approval of Minutes**

▪ Regular Meeting Minutes – July 26, 2022

Mr. Seery called for a motion or any discussion on the Regular Meeting Minutes of July 26, 2022ne 28, 2022.

**\*\*MOTION (1)**

Mr. DiGiovanna moved to approve the Regular Meeting Minutes of July 26, 2022 as presented.

Mr. Zoller seconded the motion.

Vote: 7 – 0 - 1. Motion passed.

Abstained: Mr. Bond

**3. Delegations**

Mr. Seery called for delegations.

There were none.

**4. Billing Adjustments/Disputes**

There were none.

**5. Approval of Bills**

There were none.

**6. Finance Director Report**

Mr. Seery noted that this would be Ms. Johnson's last meeting with them as she would be retiring. He thanked her for her many years of service to the Town.

Ms. Johnson reviewed her report noting that this was the beginning of a new fiscal year. There were no questions.

FILED

August 30, 2022 AT 10:08 AM PM  
Brenke Town ATC  
EAST LYME TOWN CLERK

**7. Discussion and Possible Action on East Lyme/Old Lyme Beaches Sewer Agreement**

Mr. Seery asked for a motion for discussion on this item.

**\*\*MOTION (2)**

**Mr. Murphy moved to approve the Amendment to Agreement for the Connection of Old Lyme Beach Associations' Sewerage System to the East Lyme Sewerage System and authorize the East Lyme Water and Sewer Commission Chairman to execute and deliver the Agreement as written.**

**Mr. DiGiovanna seconded the motion.**

Mr. North explained that the Old Lyme Beach Associations and the East Lyme Water & Sewer Commission had previously executed an agreement to allot 120,000 gallons/day of sewer transmission capacity to flow through the East Lyme system for treatment with the option of acquiring an additional 180,000 gpd for future use. Currently Old Lyme is requesting 50,000gpd out of the 180,000gpd to convey sewerage generated from areas within the Town of Old Lyme but outside the limits of the Beach Associations.

Ms Russell expressed concern that she did not feel that the amendment was going to apply to the whole Town area but rather just to the beach areas. She said that she would like more information on this to clarify.

Mr. Bond asked why it would matter as they are paying by the gallon.

Mr. Spencer said that the agreement had already been agreed upon and they were requesting something that falls within the agreement. He does not think that they can go back and change the agreement. This is also just for transmission capacity.

Mr. Seery said that Ms. Russell could make an amendment to the motion to table it for further clarification.

**Amendment to MOTION (2)**

Ms. Russell moved to table action on the motion pending further clarification at the next meeting.  
**No second – Amendment to MOTION (2) fails.**

Mr. Seery called for a vote on the motion on the floor.

**Vote: 7 – 1 – 0. Motion passed.**

**Against: Ms. Russell**

**8. Discussion and Possible Action on Sewer Capacity Allocation for 138 Boston Post Road**

Mr. North explained that 138 BRP LLC is requesting sewer capacity of 5,150 gpd to construct an 17-unit development designed for the 55+ community that are comprised of 2 BR's each with a 500 sf office space. The request for capacity follows the CT DPH Technical Standards 2018 edition. The developer is requesting capacity in line with the East Lyme Water & Sewer Commission's application for determination of adequacy of Sewer Capacity pursuant to CGS Section 7-246a(a)(1). He noted that there is a house also on the property which already is sewerred.

James Quarto of Old Lyme said that he is the owner and applicant of the property. He said that all 17 units would be townhouses and that the property is located next to the Dollar General. As noted, there is a house there which is already connected to the sewer system. As each unit has two bedrooms the computation is 34 BR's x 150 = 5,100 which is just over the threshold and the reason for the request.

**\*\*MOTION (3)**

**Mr. Murphy moved to approve and allocate sewer capacity in the East Lyme Sewer Conveyance System of 5,150 gallons per day for the development at 138 Boston Post Road owned by 138**

**BPR LLC in accordance with the East Lyme Water and Sewer Commission's Standards for Determination of Adequacy of Sewer Capacity Pursuant to CGS section 7-246a(a)(1) and in conformance to the Utility and Grading Plan prepared for 138 BPR LLC by Indigo Land Design LLC dated 7/27/22.**

**Mr. Zoller seconded the motion.**

Mr. DiGiovanna asked if there would be a separate assessment.

Mr. North said there would be a supplemental as the house on the property is already sewerred.

Ms. Russell said that she would support this as it is a small amount but also hopes to have an update on capacity soon.

Mr. North said that they have been working with the attorney on a capacity update.

**Vote: 8 – 0 – 0. Motion passed.**

#### **9. Discussion on Water Conservation Measures**

Mr. North explained the lower rainfall situation in relation to use and production and how our wells do not have the ability to keep up. He noted that they have put a mandatory lawn watering restriction in place. He also noted that the Governor has declared our area a Stage 3 Drought Area.

Ms. Russell asked how many of our wells are impacted by this.

Mr. North said that four (4) of our wells are impacted.

Mr. DiGiovanna asked if they meter the water at the beaches.

Mr. North said that he believes so.

#### **10. Discussion and Possible Action on Well 2 Water Main Construction**

Mr. North explained the situation with the upgrade. The \$812,000 represents the minimal amount of work to do the upgrade as Well 2 runs at one-third of its potential to keep manganese levels in the system to a minimum. It is the only remaining well that is untreated for iron and manganese removal and is also one of the few wells that are not hampered by stream flow restrictions. He said that he is not sure on how to pay for this. He noted that this is one of Tighe & Bonds recommendation.

Ms. Russell asked what the water quality is at this location.

Mr. North said that is it very good quality.

#### **11. Project Updates**

##### **▪ Meter Replacement Project - Discussion**

Mr. North reported that in they changed out 172 meters for a 47% completion rate. He said that they are also working on accounts with issues.

##### **▪ Update on Well 5 Rehabilitation Project**

Mr. North said that Well 5 has gained project completion approval and is permitted to begin producing water once stream levels rise above restricted levels. It meets iron and manganese removal targets while producing 540 gpm.

#### **12. Correspondence Log**

There were no comments.

#### **13. Chairman's Report**

Mr. Seery reported that the Starlight Motel is being torn down and that the gas station is being worked on. He also reported that the downtown merchants have said that the traffic there this summer has been great. The Sift Bake Shop should be opening in mid September.

**14. Staff Updates**

**a. Water Department Monthly Report**

There were no comments.

**b. Sewer Department Monthly Report**

There were no comments.

**15. Future Agenda Items**

**▪ Rate Analysis Subcommittee**

Mr. Seery noted that anyone interested in being on this subcommittee should contact Mr. North.

**16. ADJOURNMENT**

Mr. Seery called for a motion to adjourn.

**\*\*MOTION (4)**

Mr. DiGiovanna moved to adjourn this Regular Meeting of the East Lyme Water & Sewer Commission at 7:55 PM.

Mr. Zoller seconded the motion.

Vote: 8 – 0 – 0. Motion passed.

Respectfully submitted,

Karen Zmitruk,  
Recording Secretary

# Memo

**To:** Kevin A. Seery, First Selectman  
Water & Sewer Commission  
Joe Bragaw, Director of Public Works  
Benjamin M. North, Utility Engineer

**From:** Kevin Gervais Jr., Finance Director

**Date:** September 22, 2022

**Re:** Month End Reports - August 31, 2022

**Water:**

The available cash balance in Water Operations at month end August 31, 2022, was \$1,116,606. Of the current cash balance available, \$189,640 is held for Meter Deposits, thus the net cash available for Water Operations is \$926,966.

During the month of August, we received \$21,995 in revenues for a total fiscal year to date of \$51,549 of the budgeted amount compared to \$19,052 for the month of August 31, 2022.

Total water operating expenditures for the month of August were \$203,276 of the amount budgeted compared to \$159,494 for August 2021. During the month of August we paid \$29,880 for chemicals and \$29,366 for electricity.

**Sewer:**

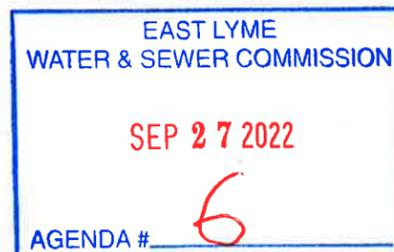
The available cash balance in Sewer Operations at month end August 31, 2022 was \$416,749 compared to \$391,113 in August 2021.

During the month of August, we received \$32,238 in revenues for a total fiscal year to date of \$62,722 compared to \$30,070 and 66,051 in August 2021 and 2021 YTD. In August we billed \$33,768 for Prison use compared to \$33,050 in August 2021.

Total sewer operating expenditures for the month of August were \$259,953 of the amount budgeted compared to \$77,111 in August 2021. During the month of August the large expenditure driver in excess of \$10,000 was \$196,797 for Treatment Plant and System Fees. Other primary expenditures for the month were wages.

**Sewer Assessment:**

The available cash balance in Sewer Assessment at month end August 31, 2022 was \$3,893,520 compared to \$2,940,698 in August 2021.



**Town of East Lyme  
Water & Sewer Operations  
August 2022 Budget Highlights**

Description	8/31/2022	8/31/2021	Increase (Decrease)
<b>WATER</b>			
Total Revenues	21,995	54,445	(32,450)
Metered Service	19,857	18,453	1,404
Delinquent Interest	574	1,900	(1,326)
Benefit Charges	850	5,100	(4,250)
Connection Charges	0	3,000	(3,000)
Misc/Turn On-Off Fees	715	2,306	(1,591)
Lease Rental	0	8,038	(8,038)
Total Expenditures	203,276	560,234	(356,958)
Principal	313,945	220,886	93,059
Interest	63,935	69,445	(5,509)
<b>SEWER</b>			
Total Revenues	30,507	66,051	(35,544)
Prison Billing	33,768	28,477	5,291
Total Expenditures	259,853	182,994	76,859
Treatment Plant/System	196,797	38,369	158,428
Utilities	7,673	15,945	(8,272)

**Water and Sewer Commission**

**Monthly Revenue Report**

Reporting as of: 8/31/2022

**Water Operations**

As of 9/21/22

Account No	Description	Total	Jul	Aug	Sep
07-01-100-400	METERED WATER SERVICE	59,055.12	17,621.81	19,856.69	21,576.62
07-01-100-404	DELQ INT-WATER SERVICE	1,410.27	641.07	573.79	195.41
07-02-200-401	BENEFIT CHARGES	5,400.00	4,250.00	850.00	300.00
07-02-200-405	CONNECTION CHARGES	3,500.00	0	0	3,500.00
07-05-100-471	MISC/TURN OFF-ON/ADM FEES	1,726.50	792.50	465.00	469.00
07-08-800-472	LEASE/RENTAL	15,129.72	1,749.01	0	13,380.71
07-11-300-005	AR CONNECTION/BENEFIT PYMTS	4,250.00	4,250.00	0	0
07-11-300-008	AR HYDRANT	500.00	250.00	250.00	0
<b>Grand Total</b>		<b>90,971.61</b>	<b>29,554.39</b>	<b>21,995.48</b>	<b>39,421.74</b>

**Sewer Operations**

Account No	Description	Total	Jul	Aug	Sep
06-01-100-600	METERED SEWER SERVICE	\$ 59,762	\$ 29,904	\$ 29,858	\$ -
06-01-100-621	DELINQUENT INTEREST(W)	\$ 1,125	\$ 800	\$ 324	\$ -
06-05-100-044	Maintenance Fees	\$ 608	\$ 608	\$ -	\$ -
06-05-100-550	PERMITS	\$ 125	\$ 125	\$ -	\$ -
06-11-400-008	Due Fm Water(Delq Interest)	\$ 1,125	\$ 800	\$ 324	\$ -
<b>Grand Total</b>		<b>\$ 62,744</b>	<b>\$ 32,238</b>	<b>\$ 30,507</b>	<b>\$ -</b>

**Water and Sewer Commission**  
**Monthly Expense Report**  
Reporting as of: 8/31/2022

**Sewer Department**

Account No	Description	July Expd	August Expd	Expd YTD	Encm YTD
06-01-114-100-121	FICA/Medicare	\$ 3,733	\$ 3,082	\$ 9,115	\$ -
06-01-200-100-007	Vehicle - Lease Payment	\$ 1,498	\$ -	\$ 1,498	\$ -
06-01-300-100-101	SALARIES & WAGES	\$ 23,728	\$ 23,016	\$ 63,833	\$ -
06-01-300-100-102	Field OT	\$ 4,345	\$ 3,759	\$ 10,939	\$ -
06-01-300-100-122	PERSONNEL BENEFITS	\$ -	\$ -	\$ -	\$ 133,107
06-01-300-610-210	TREATMENT PLANT & SYSTEM FEE	\$ -	\$ 196,797	\$ 196,797	\$ 603,593
06-01-300-610-215	MAINTENANCE OF PUMP STA EQUIP	\$ 420	\$ 1,259	\$ 3,098	\$ 18,658
06-01-300-610-217	Maintenance of Wet Wells	\$ 3,504	\$ 644	\$ 4,148	\$ 37,797
06-01-300-610-220	MAINTENANCE OF SYSTEM	\$ 350	\$ 386	\$ 1,036	\$ 3,770
06-01-300-610-225	MATERIALS & SUPPLIES	\$ 59	\$ 270	\$ 505	\$ 1,617
06-01-300-610-230	UTILITIES	\$ -	\$ 7,673	\$ 7,673	\$ 142,327
06-01-300-610-231	Telephones	\$ -	\$ -	\$ -	\$ 3,000
06-01-300-610-235	FUEL OIL AND GASOLINE	\$ 909	\$ -	\$ 909	\$ 10,000
06-01-300-610-240	CHEMICALS	\$ -	\$ -	\$ 8,492	\$ 114,508
06-01-300-610-250	O&M EXPENSE	\$ 372	\$ -	\$ 1,631	\$ 2,202
06-01-300-610-260	MAINTENANCE OF VEHICLES	\$ -	\$ -	\$ -	\$ 3,081
06-01-400-100-101	SALARIES & WAGES	\$ 21,420	\$ 14,142	\$ 46,121	\$ -
06-01-400-200-140	LEGAL & ACCOUNTING	\$ -	\$ 2,029	\$ 2,029	\$ 12,472
06-01-400-200-210	OUTSIDE SERVICES	\$ -	\$ 6,805	\$ 7,300	\$ -
06-01-400-200-290	INSURANCE P,D&L	\$ -	\$ -	\$ -	\$ 37,150
06-01-400-300-320	SUPPLIES & MISCELLANEOUS	\$ -	\$ 92	\$ 92	\$ 606
06-01-600-600-400	CONTINGENCY	\$ -	\$ -	\$ 1,375	\$ 3,548
<b>Sewer Totals</b>		<b>\$ 60,338</b>	<b>\$ 259,953</b>	<b>\$ 366,590</b>	<b>\$ 1,127,435</b>

**Water Department**

Account No	Description	July Expd	August Expd	Expd YTD	Encm YTD
07-00-000-000-000	WATER DEPARTMENT	\$ -	\$ -	\$ -	\$ -
07-01-114-100-121	FICA/MEDICARE	\$ 6,430	\$ 6,292	\$ 17,781	\$ -
07-01-300-200-201	BONDS/PRINCIPAL	\$ 313,945	\$ -	\$ 313,945	\$ -
07-01-300-200-202	Meter Replacement Project Bonds	\$ 7,912	\$ 718	\$ 8,817	\$ 18,700
07-01-300-390-394	TOOLS & EQUIPMENT	\$ -	\$ -	\$ 547	\$ 4,523
07-01-300-400-427	BONDS INTEREST	\$ 63,935	\$ -	\$ 63,935	\$ -
07-01-300-610-614	MAINTENANCE OF WELLS	\$ -	\$ 2,198	\$ 5,129	\$ 37,932
07-01-300-620-623	Electricity	\$ -	\$ 29,366	\$ 29,366	\$ 70,634
07-01-300-640-641	CHEMICALS	\$ -	\$ 29,880	\$ 29,880	\$ 170,120
07-01-300-660-665	MISC MAPS & RECORDS	\$ -	\$ 41	\$ 41	\$ 1,900
07-01-300-660-666	Safety Equip/Training	\$ -	\$ -	\$ 380	\$ 1,809
07-01-300-670-671	MAINTENANCE OF O & M	\$ -	\$ 1,625	\$ 1,995	\$ 6,165
07-01-300-670-673	MAINT OF TRANSMISSION & DISTR	\$ -	\$ 12,099	\$ 3,319	\$ 39,834
07-01-300-900-903	CUSTOMER RECORDS & COLLECTION	\$ -	\$ 6,815	\$ 6,815	\$ 13,700
07-01-300-920-201	ADMINISTRATIVE ASSISTANT SALAR	\$ 5,220	\$ 5,183	\$ 14,283	\$ -
07-01-300-920-202	PW & FINANCE DIR, UTL ENG-SALA	\$ 17,304	\$ 17,649	\$ 48,464	\$ -
07-01-300-920-204	FIELD PERSONNEL SALARIES	\$ 44,983	\$ 44,574	\$ 119,794	\$ -
07-01-300-920-205	Field Personnel Salaries OT	\$ 9,664	\$ 6,368	\$ 24,861	\$ -
07-01-300-920-206	Meter Installers - Temporary	\$ 9,808	\$ 11,447	\$ 30,033	\$ -
07-01-300-920-210	OFFICE SUPPLIES & MISC	\$ -	\$ 503	\$ 503	\$ 941
07-01-300-920-230	OUTSIDE SERVICES	\$ -	\$ 5,187	\$ 9,711	\$ 50,126
07-01-300-930-321	VEHICLE EXPENSE	\$ 139	\$ -	\$ 139	\$ 2,186
07-01-300-930-323	Vehicle Acquisitio Payments	\$ 3,651	\$ 13,841	\$ 17,492	\$ -
07-01-300-930-999	CONTINGENCY	\$ 442	\$ 9,490	\$ 11,076	\$ 2,066
<b>Water Totals</b>		<b>\$ 483,433</b>	<b>\$ 203,276</b>	<b>\$ 758,306</b>	<b>\$ 556,260</b>

Range of Accounts: 06-00-000-000-000 to 07-99-999-999-999

**Request for Water & Sewer Commission**

**TO:** Water & Sewer Commission

**FROM:** Ben North, Utilities Engineer

**DATE:** September 22, 2022

**SUBJECT: Well 2A to Bride Brook Water Treatment Plant Transmission Main**

**Summary of Agenda Item:**

Well 2A is the last remaining well in town that is untreated for iron and manganese removal. It is also one of the few wells that is not hampered by stream flow restrictions. It is currently capable of producing 0.86 Million Gallons Daily (MGD), but currently only runs about 1/3 of that amount to keep manganese levels in the distribution system to a minimum. Therefore, the benefits of constructing a raw water transmission main to the Bride Brook Treatment Plant are twofold and would increase the quality and quantity of water available to the customers of East Lyme.

The included Opinion of Probable Cost (OPC) presented represents the minimum requirements to accomplish this task. The design and construction work would be done in-house in a similar fashion to the Well 5 project. The timeframe for completion of this work would take about one to two months, with the most lengthy period of time being the availability of construction materials. This project could be completed by the summer of 2023 at current lead time estimates.

**Attachments:**

**Well 2A to Bride Brook Water Treatment Plant Transmission Main and Lagoon Improvements**

**Prepared By: Ben North, Utilities Engineer**

W&S Agenda  
Item No. 8  
Date: 8/22/22

**EAST LYME WATER DEPARTMENT  
Well 2A to Bride Brook Water Treatment Plant Transmission Main & Lagoon Improvements  
OPINION OF PROBABLE COST  
Monday August 15, 2022**

ITEM	DESCRIPTION	UNITS	QTY	UNIT PRICE	SUB TOTAL	TOTAL
<b>1</b>	<b>Well 2A Transmission Main</b>					<b>\$459,875</b>
	10" Ductile Iron Pipe w/ Hydrants and fittings (in shoulder off road)	LF	3,825	\$115	\$439,875	\$439,875
	Bridge Crossing		1	\$10,000	\$10,000	\$10,000
	Traffic Control		1	\$10,000	\$10,000	\$10,000
<b>2</b>	<b>Well 2A Mechanical/Electrical/Instrumentation</b>					<b>\$160,000</b>
	Permanent standby generator including storage of propane fuel	LS	1	\$100,000	\$100,000	\$100,000
	Instrumentation and SCADA	LS	1	\$50,000	\$50,000	\$50,000
	Flow Meter	LS	1	\$10,000	\$10,000	\$10,000
<b>3</b>	<b>Bride Lake Site Civil/Site</b>					<b>\$75,000</b>
	Reconfiguration of Transimission Main/Influent Piping for Filters	LS	1	\$25,000	\$25,000	\$25,000
	Lagoon Improvements		1	\$50,000	\$50,000	\$50,000
<b>14</b>	<b>Construction Subtotal</b>					<b>\$700,000</b>
<b>16</b>	<b>Contingency (15%)</b>		15%			<b>\$110,000</b>
<b>17</b>	<b>Total</b>					<b>\$810,000</b>

**Request for Water & Sewer Commission**

**TO:** Water & Sewer Commission

**FROM:** Ben North, Utilities Engineer

**DATE:** September 22, 2022

**SUBJECT:** Purchase of Sewer Utility Truck

**Summary of Agenda Item:**

The Sewer Department is in need of a new utility truck. Water department is scheduled to receive two new utility trucks as part of the 2021 vehicle acquisition program. One of the two new trucks will need to go to Sewer to replace a truck that is no longer road-worthy in its current condition nor is worth investing more money into. Sewer Dept. will pay Water Dept. the cost of one of these trucks and Water Dept. will use that money to pay for a new van.

**Action Needed:**

Motion to appropriate and transfer \$58,000.00 in Sewer Assessment fund 3 from resources available to the account titled, "Sewer Utility Truck" for the purchase of a new sewer utility truck.

**Attachments:**

None

**Prepared By:** Ben North, Utilities Engineer

W&S Agenda  
Item No. 9  
Date: 9/22/22

**Request for Water & Sewer Commission**

**TO:** Water & Sewer Commission

**FROM:** Ben North, Utilities Engineer

**DATE:** September 22, 2022

**SUBJECT:** Niantic Pump Station Hazard Mitigation Plan Application

**Summary of Agenda Item:**

Some months ago, the Sewer Department submitted an application to FEMA for flood resiliency funding at the Niantic Pump Station. The funding was specifically intended for dry-floodproofing of the building as well as relocation of the pad-mounted transformer and underground storage tank. Due to recent changes to the flood zone mapping in this vicinity, FEMA believes the work is ineligible for this type of project because of the high risk of flooding damage due to wave action. The Sewer Department would like to explore the option of employing a more accurate method of flood plain determination to model actual site conditions with the goal of moving the station out of the current flood plain designation.

**Action Needed:**

Motion to appropriate and transfer \$5,000.00 in Sewer Assessment fund 3 from resources available to the account titled, "Niantic LiMWA Relocation Study" to fund modeling of the flood zone near Niantic Pump Station.

**Attachments:**

FEMA LiMWA fact sheet

**Prepared By:** Ben North, Utilities Engineer

W&S Agenda  
Item No. 10b  
Date: 9/22/22



FEMA

# Fact Sheet

## Using the Limit of Moderate Wave Action (LiMWA) to Build Safer and Stronger Coastal Communities

The National Flood Insurance Program (NFIP) depicts coastal flood hazards in two different zones on Flood Insurance Rate Maps (FIRMs):

- Zone VE, also known as the Coastal High Hazard Area (CHHA), where flood hazards include wave heights equal to or greater than 3 feet; and
- Zone AE, where flood hazards include wave heights less than 3 feet.

Due to the high risk of structural damage, buildings within Zone VE must adhere to more stringent building requirements. Communities should also be adopting the most up-to-date building codes to ensure buildings are protected from the potential hazards of high-risk floods.

Over the past decade, post-storm surveys of damage and laboratory tests have confirmed that wave heights as small as 1.5 feet can cause significant damage to coastal structures that are not built to withstand these hazards. This fact sheet describes how to use the information that is available to improve construction standards in coastal communities that have not adopted the most recent International Building Codes (I-Codes).

On a FIRM, FEMA identifies where waves can reach heights of 1.5 feet or greater using a line called the Limit of Moderate Wave Action (LiMWA). Through the LiMWA shown on the FIRMs, homeowners and communities can better understand which portions of Zone AE are at risk of high wave energy. These portions, which make up the area between the LiMWA and Zone VE, are referred to collectively as the Coastal A Zone.

While FEMA does not impose floodplain management requirements based on the LiMWA, the LiMWA communicates that a greater risk of flood damage is present in the Coastal A Zone.

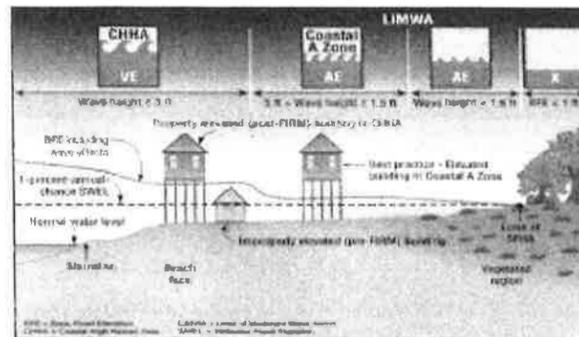
FEMA encourages the practice of building to Zone VE standards within the Coastal A Zone, and many local building codes require that buildings in the Coastal A Zone be built to Zone VE standards to be better protected from the dangers posed by waves.

### Zone VE Building Standards for Coastal Communities

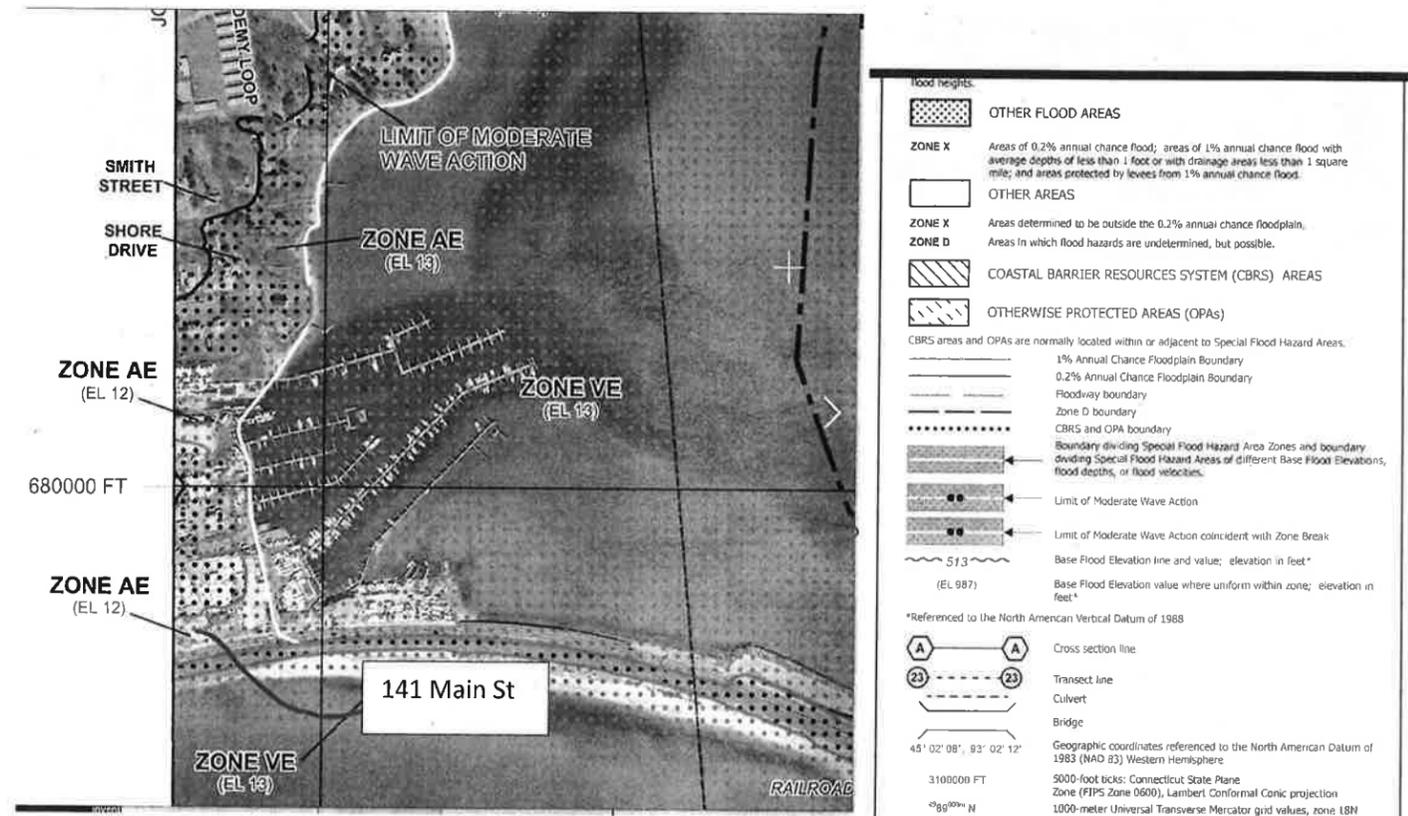
Communities that adopt Zone VE standards in the Coastal A Zone can receive Community Rating System (CRS) credits, which could lower flood insurance premiums for residents and business owners.

1. Buildings must be elevated on pile, post, pier, or column foundations.
2. Buildings must be adequately anchored to the foundation.
3. Structural fill is prohibited.
4. The bottom of the lowest horizontal structural member must be at or above the Base Flood Elevation (BFE).
5. The area below the BFE must be built of flood-resistant materials and free of obstructions. If enclosed, the enclosure must be made of lightweight wood lattice, insect screening, or breakaway walls.
6. The building design and method of construction must be certified by a design professional.

*For specific requirements, refer to Title 44 of the Code of Federal Regulations, Section 60.3.*



*"FEMA's mission is to support our citizens and first responders to ensure that as a nation we work together to build, sustain, and improve our capability to prepare for, protect against, respond to, recover from, and mitigate all hazards."*



As part of a CT HMGP application for flood mitigation of the Niantic pump station at 141 Main Street, the State recommended the Town to pursue a Letter of Map Revision (LOMR) so that dry floodproofing would be allowed in a Coastal Zone AE Zone inside the LiMWA line. The move of the LiMWA line would remove the structure out of the Coastal A(E) Zone. The objective is to prove through collecting additional data and computer modeling that the LiMWA line is incorrect and can be move further out into Niantic Bay.



WATERFORD UTILITY COMMISSION

REGULAR MEETING MINUTES

DATE: August 09, 2022  
PLACE: 1000 Hartford Turnpike  
PRESIDING: Chairman Ken Kirkman  
MEMBERS PRESENT: Steve Negri, Ray Valentini, Rodney Pinkham and Thomas Dembek  
ALSO PRESENT: Attorney Nicholas Kepple, Town Legal Counsel  
Staff: Jim Bartelli, Interim Director

Chairman Ken Kirkman called the meeting to order at 6:01 p.m.

CITIZEN SESSION

None

SECRETARY'S REPORT

MOTION Made by Mr. Negri to approve the Minutes of the July 12, 2022 meeting and the Special Meeting Minutes of July 18, Mr. Valentini seconded.

VOTE The motion passed unanimously.

BILLING ADJUSTMENTS

The Commission reviewed the July adjustments. The adjustment report will be kept in the office for review.

EXPENDITURES

MOTION made by Mr. Negri to approve August 2022 bill list, Mr. Valentini seconded.

VOTE The motion passed unanimously.

OLD BUSINESS – REPORTS & UPDATES

- FINANCIALS – WW FUND REVENUES/EXPENDITURES REPORT  
Office Coordinator will email the commission when they are completed.
- American Rescue Plan-Mr. Bartelli gave an update on the projects in progress.

- **COLLECTIONS-UPDATE**  
Attorney Kepple provided his monthly report to the commission.
- **BI TOWN WASTEWATER AGREEMENT**  
Attorney Kepple went over the minor changes that were made in the agreement.

**MOTION** made by Mr. Negri to approve the amended Waterford/East Lyme Wastewater Collection and Conveyance Agreement and to recommend the adoption of the new Bi-Town Agreement to be accepted by the Board of Selectmen and the RTM, seconded by Mr. Pinkham.

**VOTE** The motion passed unanimously.

#### OLD BUSINESS

Mr. Bartelli gave an update on the proposed extension of water & sewer on Oil Mill & Gurley Road, #PL-22-12. The CGS 8-24 public hearing is tonight at the Planning & Zoning meeting. Discussions ensued on concerns that the residents might have on this project and tying into the wastewater system.

#### NEW BUSINESS

- City of New London FY21 & FY22 Treatment Cost Bills- Mr. Soto left an e-mail explaining the missing bill from New London from previous Fiscal Year and will be paid in FY23.
- New Billing Software-A company called inHance will be coming on August 10<sup>th</sup> to give a presentation on their billing software. Staff will report back to the Commission in next meeting.
- Lead and Copper Rule Revision from DOPH-Mr. Valentini explained this rule revision and what steps that need to be taken to be in compliance by FY24.

#### WATER-VEOLIA REPORT

Report was reviewed.

#### PLANS REVIEW

None

Waterford Utility Commission  
August 09, 2022

PERSONNEL

Mr. Bartelli reported that there were 5 applicants for the Sewer Tech I position. He also gave a progress report on all the work that the maintenance staff has been doing.

OTHER

ADJOURNMENT

With no further business before the Commission, the meeting adjourned at 7:09 p.m.

MOTION      made by Mr. Pinkham to adjourn. Mr. Valentini seconded.

VOTE         The motion passed unanimously.

Respectfully submitted,  
Amy L. Windle  
Recording Secretary

**MINUTES OF THE WATER & WATER POLLUTION CONTROL AUTHORITY/STORMWATER AUTHORITY  
Regular Meeting, August 25, 2022**

The Regular Meeting of the Water and Water Pollution Control Authority (W&WPCA) began at 7:00 P.M. on the 25<sup>th</sup> day of August 2022.

**PRESENT:** Barry Weiner, Chairman  
John Russell, Vice-Chairman  
Melissa Ford  
Angie Lewis

**ALSO, PRESENT:** Marianna Gaynor McGuirk, Public Utilities  
Peter Vetter, Veolia Water  
Derek Palmerone, Veolia Water  
Melissa Mooradian, Veolia Water

**ABSENT:** Councilor James Burke  
Chris Baker  
Gregory Dziczek  
Scott Loring  
Director Joseph Lanzafame

**OTHERS ATTENDING:** Jacob Poll, Resident

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**1.0 ROLL CALL AND CALL TO ORDER**

Chairman Weiner called the regular meeting to order at 7:00 P.M. and requested that the record show we do have a quorum. The meeting began with the Pledge of Allegiance to the Flag.

**2.0 CITIZEN PARTICIPATION**

At this point, upon motion of John Russell, seconded by Melissa Ford, it was motioned to move 7.0(2) to the floor. The motion carried unanimously.

Mr. Jacob Poll, owner of 16 Denison Avenue, New London, CT was present to discuss his Criteria for Claims form submitted to the W&WPCA for review this evening. Mr. Poll spoke to the board and explained why he was requesting relief on the sewer portion of his bill. After discussion, upon motion of John Russell, seconded by Melissa Ford, it was moved to accept staff recommendation and offer relief on the sewer portion of the bill. The motion carried unanimously.

In addition, Chairman Weiner entertained a motion to offer a payment plan to Mr. Poll if needed. Upon motion of John Russell, seconded by Angie Lewis it was moved to offer Mr. Poll a payment plan for 16 Denison Avenue if needed. The motion carried unanimously.

**3.0 MINUTES OF PREVIOUS MEETING**

(1) Water & Water Pollution Control Authority (W&WPCA) Regular Meeting Minutes – July 28, 2022  
Upon motion of Melissa Ford, seconded by John Russell, it was moved to approve the July 28, 2022 Regular Meeting Minutes. The motion carried unanimously.

**MINUTES OF THE WATER & WATER POLLUTION CONTROL AUTHORITY/STORMWATER AUTHORITY  
Regular Meeting, August 25, 2022**

**4.0 FOR THE INFORMATION OF THE AUTHORITY:**

- (1) Tabled Items –none
- (2) Thank you note from Lynaisha Quinones RE: Aldo Valentini Scholarship Award
- (3) 06/21/22 Letter from New London Homeless Hospitality Center – Annah Perch – Thank you for Community Fund Grant
- (4) 06/26/22 Letter from Denison Pequotsepos Nature Center – Thank you for Community Fund Grant
- (5) 07/11/22 Letter from OpSail – Kevin Cavanagh – Thank you for Community Fund Grant
- (6) 07/12/22 Letter from Thames River Heritage Park – Thank you for Community Fund Grant

*Upon motion of Melissa Ford, seconded by Angie Lewis, it was moved to accept Items 4.0(2) – 4.0(6) for the record and take actions, if any, as dictated by the Authority. The motion carried unanimously.*

**5.0 UNFINISHED BUSINESS**

**5.1 For the Information of the Authority to be received for the Record:**

- (a) Veolia Monthly Contract Operations Report – July 2022

Peter Vetter noted that all water and wastewater operations were within permit compliance throughout this monitoring period (July 2022).

Mr. Vetter spoke briefly about Rhode Island Analytical Laboratories, Inc. and noted that Veolia has decided to end their relationship with this lab and will start with a new lab in Madison, CT on Monday.

Mr. Vetter noted that the Stormwater Crew cleaned 117 catch basins and sampled three (3) outfalls. He added the total catch basins cleaned increased to 1,699 since January 1, 2020. He added, in total the New London Stormwater System contains around 1,719 catch basins. He noted that for 2020-2022, approximately 98% of the City's catch basins have been cleaned.

Mr. Vetter noted that the Road Crew was called out 16 times in July for repairs – 14 service breaks and two (2) main breaks. He added the crews have started sewer cleaning and CCTV.

Mr. Vetter noted that the replacement variable frequency drive for Wastewater Pumping Station #1 has been ordered and is anticipated in early September. He noted the existing drive has been placed on "Lag" status so it will only be called to run under very high flow conditions or failure of the "Lead" pump.

Mr. Vetter noted that New London facilities hosted Veolia's Corporate Safety Audit Team during the month of July, 2022. He added overall no large issues were identified. He noted that several small procedural and documentation findings were observed and have since all been corrected.

Mr. Vetter noted that East Lyme continues to take considerably more water than in previous years. He added this is contributing to our higher than normal flows at Lake Konomoc, however it is not impacting our ability to serve New London and Waterford. Chairman Weiner noted that Director Lanzafame had spoken with him about same and he authorized Director Lanzafame to continue water sales to East Lyme.

**MINUTES OF THE WATER & WATER POLLUTION CONTROL AUTHORITY/STORMWATER AUTHORITY  
Regular Meeting, August 25, 2022**

Mr. Vetter noted that we inherited a new piece of sewer evaluating equipment from a Veolia contract in Kentucky. He added this "Sewer Rat" is a quick screening tool for evaluating whether a pipe is flowing free or is developing a clog. He added the device sends a sonic wave from one manhole to the next and interprets the signal received to estimate the degree of blockage. He noted that several Suez facilities are utilizing this technology with positive results. He added that Brian Nixon and two (2) Field Service Technicians traveled to Poughkeepsie, NY to attend classroom and field training on this device. Mr. Vetter noted that the staff is very happy with the new equipment and we inherited it for no charge to the City.

Mr. Vetter noted that the monthly summary for accounts in Legal ended the month in the amount of \$880,520.48. He added the number of customers paying online ended the month at 37%.

There was a brief discussion regarding the old financial system versus the new system relative to being able to provide customers with requested information in a timelier manner. Mr. Vetter noted that the new system is so much better and thanked the board for their vote to agree to go to the new system.

- (b) Minutes and Agendas from **Waterford Utility Commission**
  - (1) None
  
- (c) Minutes and Agendas from **East Lyme Water & Sewer Commission**
  - (1) None
  
- (d) Transfers/Deposits/Appropriation Requests
  - (1) Deposit – Town of East Lyme – FY 2023 Sewer Costs -- \$196,796.88
  
- (e) Information List (**Actions as dictated by the Authority—information only**)
  - (1) None
  
- (f) Invoices and Change Orders for Approval or Payment
  - (1) Veolia Water: Invoice for O&M for September, 2022 in the amount of **\$ 736,883.67**  
*Upon motion of Melissa Ford, seconded by Angie Lewis, it was moved to approve payment in the amount of \$736,883.67 to Veolia Water. The motion carried unanimously.*
  - (2) Veolia Water: Invoice for Electricity for September, 2022 in the amount of **\$91,687.56**  
*Upon motion of Melissa Ford, seconded by Angie Lewis, it was moved to approve payment in the amount of \$91,687.56 to Veolia Water. The motion carried unanimously.*
  - (3) Conway & Londregan: Invoice for July 2022 Legal Services in the amount of \$1,455.00  
*Upon motion of Melissa Ford, seconded by Angie Lewis, it was moved to approve payment in the amount of \$1,455.00 to Conway & Londregan. The motion carried unanimously.*
  - (4) Veolia Water: Invoice for Underground Materials for July 2022 in the amount of \$4,432.62 (WIM22)  
*Upon motion of Melissa Ford, seconded by Angie Lewis, it was moved to approve payment in the amount of \$4,432.62 to Veolia Water. The motion carried unanimously.*
  - (5) Veolia Water: Invoice for Stormwater (O&M) for August 2022 in the amount of **\$47,535.16**  
*Upon motion of John Russell, seconded by Melissa Ford, it was moved to approve payment in the amount of \$47,535.16 to Veolia Water. The motion carried unanimously.*

**MINUTES OF THE WATER & WATER POLLUTION CONTROL AUTHORITY/STORMWATER AUTHORITY  
Regular Meeting, August 25, 2022**

- (g) Finance Reports--- Royal Bank of Canada (RBC) (Report for period ending July 31, 2022)
- (1) Portfolio Review
- Treatment Plant Sinking Fund
  - Water Fund Capital Projects
  - Water Surcharge
  - Sewer Fund

Chairman Weiner noted that while we are still not making the money we were it continues to get a little better each month. He added we are still making a good return.

- (h) Delinquency Report – Provided by Veolia - (for July, 2022)  
After discussion, *upon motion of Melissa Ford, seconded by Angie Lewis, it was moved to send the accounts recommended by Veolia Water to Legal less 26 Quinnepeag Avenue, New London, CT. The motion carried unanimously.*

The foregoing matters Items 5.1(a) through 5.1(h) are received for the record and/or referred to the Committee.

**6.0 OLD BUSINESS**

- (1) None

**7.0 NEW BUSINESS**

- (1) Criteria for Claims – 111 Truman Street, New London, CT  
*Upon motion of John Russell, seconded by Melissa Ford, it was moved to approve staff recommendation and offer relief on the sewer portion of the bill. The motion carried unanimously.*
- (2) Criteria for Claims – 16 Denison Avenue, New London, CT  
*See Item 2.0 Citizen Participation -- this was handled under Citizen Participation.*

At this point, John Russell requested that Mr. Vetter refrain from including all the attachments he currently submits to us for the agenda with his monthly report as he feels it is a waste of paper. Marianna noted that she must have at least one copy for the record and Peter Vetter noted that he is contractually obligated to present those reports to Director Lanzafame. Chairman Weiner noted that he would like to continue to receive the full report. After discussion, it was decided that Peter Vetter would prepare a summary for those areas of the report in question and submit both next month to the board so they can decide which they like best. It was noted that if it is decided that the summary would be the choice then Peter Vetter will present it that way with the agenda package. However, it was noted that Mr. Vetter must still send a full report to Director Lanzafame for the record and to Chairman Barry Weiner as he requested he would like a full copy.

Mr. Vetter reminded Chairman Weiner that although not on the agenda Gregory Dziczek had requested a FOG Report be given sometime soon. Mr. Vetter noted that Derek Palmerone is present this evening to give that report and he handed out a 2022 FOG Inspection Report to all members.

Mr. Palmerone reviewed the report and answered questions that the board asked relative to same. Mr. Palmerone noted that one issue he is experiencing is the owners of Sunny Lodge are not yet in compliance with the regulation to install the grease trap but he recently received a phone call from the owner, the wife, informing him that her husband died suddenly and she plans to sell the property. At this point, Mr. Palmerone questioned as to who is responsible for the installation – would it be current owner or the new owner when the property is transferred.

**MINUTES OF THE WATER & WATER POLLUTION CONTROL AUTHORITY/STORMWATER AUTHORITY  
Regular Meeting, August 25, 2022**

Mr. Palmerone also noted that another issue he has is with Subway on Colman Street. He noted that a few years ago the board approved a Super Capacity Grease Trap which requires that every three (3) month it must be cleaned. Mr. Palmerone noted that this was part of the criteria for getting one of these traps. He added Subway refuses to have this done and noted they would do it themselves. Mr. Palmerone noted that the stipulation was that a professional vendor be hired to perform this task and invoices provided. Chairman Weiner noted since Subway is violating this agreement that they should be listed as non-compliant. Peter Vetter asked what the enforcement for this action would be. There was discussion relative to same and Chairman Weiner requested that Marianna contact Attorney Estep to research the ordinance to see what our enforcement actions are regarding FOG and penalties. Chairman Weiner then asked about the potential transfer of property (Sunny Lodge) and requested that when Director Lanzafame returns from vacation that Mr. Palmerone discuss same with him and Chairman Weiner requested that he be kept in the loop as well. Mr. Palmerone noted that the new owner of all the Dunkin Donuts Stores in New London has been difficult to reach. He noted he has called many times and also sent emails but no word back to date. It was suggested that Mr. Palmerone send a certified letter to the owner. Chairman Weiner noted that the FOG Program has definitely had an impact on the quality of our sewer lines and the program is beneficial to the City. Chairman Weiner noted that he would like a completed FOG Report monthly and Mr. Vetter noted that Mr. Palmerone could provide it to him and he would include with his monthly report.

**8.0 STORMWATER UTILITY AGENDA ITEMS & LEAD SERVICE LINE REPLACEMENT PROGRAM (LSLR)**

Chairman Weiner gave a brief update on the Lead Service Line Replacement Program. He noted that it was shovel ready and ready to go and we are waiting for an official notice of funding from the State. He noted that he could happily report that while we have not received authorization of funding yet our project has moved in the process. He noted it was approved by Lori Mathieu's office (CT Department of Public Health) and is now in the State of CT Office of Policy and Management for budgeting. He noted that we are expecting to hear soon.

Chairman Weiner gave a report on the ongoing drought and noted that we are still in an advisory status (nothing mandatory) and he added that we have plenty of water on tap. He also noted if for any reason this should change, we also have an emergency pump station ready to go. Mr. Vetter noted that this emergency pump station is tested monthly.

**9.0 ADJOURNMENT**

*Upon motion of John Russell, seconded by Melissa Ford, it was moved to adjourn at 7:40 p.m. The next regular meeting of the W&WPCA will be held on Thursday, September 22, 2022 at 7:00 p.m. At this time, all meetings are scheduled to be held at the Richard R. Martin Center, Senior Center Library, 120 Broad Street (rear), New London, CT. The motion carried unanimously.*

**This document is subject to corrections, changes and/or Revisions.**

**MINUTES OF THE WATER & WATER POLLUTION CONTROL AUTHORITY/STORMWATER AUTHORITY**  
**Regular Meeting, August 25, 2022**

**Distribution:**

Barry J. Weiner, Chairman  
John Russell, Vice-Chairman  
James Burke, Council Liaison  
Gregory Dzikczek, Authority Member  
Scott Loring, Authority Member  
Christopher Baker, Authority Member  
Melissa Ford, Authority Member  
Angie Lewis, Authority Member  
Joseph Lanzafame, Public Utilities  
Peter Vetter, Veolia Water  
Mayor Michael Passero  
Richelle Meneses, Mayor's Office  
David McBride, Director of Finance  
Jonathan Ayala, City Clerk

**CITY OF NEW LONDON  
CONNECTICUT**



**Regular Meeting of the Water & Water Pollution Control Authority**

**DATE:** September 22, 2022  
**LOCATION:** Richard R. Martin Center, 120 Broad Street (rear), Senior Center Library,  
New London, CT 06320  
**TIME:** 7:00 p.m.

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- 1.0 ROLL CALL AND CALL TO ORDER
- 2.0 CITIZEN PARTICIPATION
- 3.0 MINUTES OF PREVIOUS MEETING
- 4.0 FOR THE INFORMATION OF THE AUTHORITY
- 5.0 UNFINISHED BUSINESS
- 6.0 OLD BUSINESS
- 7.0 NEW BUSINESS
- 8.0 STORMWATER UTILITY AGENDA ITEMS
- 9.0 ADJOURNMENT OR RECESS

**Distribution List:**

Barry J. Weiner, Chairman  
John Russell, Vice-Chairman  
Gregory Dzieczek, Authority Member  
Scott Loring, Authority Member  
Melissa Ford, Authority Member  
Angela Lewis, Authority Member  
James Burke, Council Liaison  
Christopher Baker, Authority Member  
Joseph Lanzafame, Public Utilities  
Peter Vetter, Veolia Water  
Michael Passero, Mayor – City of New London  
Richelle Meneses, Mayor's Office  
David McBride – Finance  
City Clerk (4 copies, Agenda Only)  
New London Public Library  
Ben North, East Lyme PW  
Jim Bartelli, Waterford Utility Commission  
The Day (Agenda Only)

**3.0 MINUTES OF PREVIOUS MEETING**

- (1) Water & Water Pollution Control Authority (W&WPCA) Regular Meeting Minutes – August 25, 2022

**4.0 FOR THE INFORMATION OF THE AUTHORITY:**

- (1) Tabled Items - NONE

**5.0 UNFINISHED BUSINESS**

**5.1 For the Information of the Authority to be Received For the Record:**

- (a) Veolia Monthly Contract Operations Report ---- August, 2022
- (b) Minutes and Agendas from **Waterford Utility Commission**  
(1) None
- (c) Minutes and Agenda from **East Lyme Water & Sewer Commission**  
(1) None
- (d) Transfers/Deposits/Appropriation Requests  
(1) Deposit Town of Waterford-- FY 2023 Sewer Costs - \$ 387,805.62  
(2) Deposit Town of East Lyme -- FY 2022 Sewer Costs -- \$196,043.72  
(3) Deposit Town of Waterford – FY 2022 Sewer Costs -- \$ 10,088.73
- (e) Information List (**Actions as dictated by the Authority—information only**)  
(1) None
- (f) Invoices, Bills and Change Orders for Approval or Payment -  
(1) Veolia Water: Invoice for O&M for October, 2022 in the amount of \$736,883.67  
(2) Veolia Water: Invoice for Electricity for October, 2022 in the amount of \$91,687.56  
(3) Conway & Londregan: Invoice for August 2022 Legal Services in the amount of \$1,050.00  
(4) Veolia Water: Invoice for Underground Materials for August, 2022 in the amount of \$1,622.25 (WIM22)  
(5) Veolia Water: Invoice for Stormwater (O&M) for September 2022 in the amount of \$47,535.16 (6/2022)
- (g) Finance Reports--- Royal Bank of Canada (RBC) (Reports for period ending August 31, 2022)  
(1) Portfolia Review
  - Treatment Plant Sinking Fund
  - Water Fund Captial Projects
  - Water Surcharge
  - Sewer Fund
- (h) Delinquency Report – Provided by Veolia Water (for August 2022)

**The foregoing matters Items 5.1(a) through 5.1(h) are received for the record and/or referred to the Committee.**

**6.0 OLD BUSINESS**

- (1) None

7.0 NEW BUSINESS

- (1) Criteria for Claims –756 Pequot Avenue, New London, CT
- (2) Approval of 2023 Water & Water Pollution Control Authority Annual Meeting Schedule

8.0 STORMWATER UTILITY & LEAD SERVICE LINES REPLACEMENT PROGRAM AGENDA ITEMS

- (1) Update by Director Lanzafame

9.0 ADJOURNMENT

**East Lyme Water Department  
Monthly Report - September 2022**

**1. General Statistics for: Aug-22**

<b>TASKS PERFORMED by WATER DEPARTMENT</b>	<b>August 2022</b>	<b>TOTAL THIS YEAR</b>	<b>TOTAL LAST YEAR (July 1st to June 30th)</b>
<b>Meters Installed (New Accounts)</b>	3	5	29
<b>New Meters In System</b>	281	453	<b>New / Total</b>
			<b>3538 / 6914 or 51%</b>
<b>New Service Connections Installed</b>	3	4	7
<b>Services and Mains Repaired<sup>(1)</sup></b>	4	8	50
<b>Gallons Pumped (x1000)</b>	75,649	155,201	729,104

(1) Repair or replacement of service line from main to curb stop.

**2. Monthly Average Day Demand (MADD)**

	<b>August</b>	<b>August 2021</b>	<b>% Difference LY</b>
<b>Water Produced (Millon Gallons Daily)</b>	2.440	2.062	18.33%

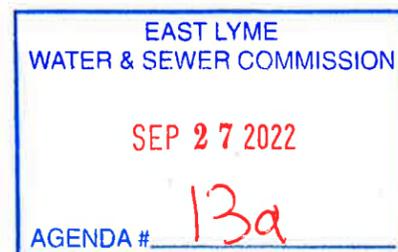
MADD as a % of 3.16 MGD available water (24-hour pumping) = 77.22%

MADD as a % of 2.37 MGD available water (18-hour pumping) = 102.97%

**Note: Available water based on 2005 Water Supply Plan and subsequent revisions approved February 20, 2007. Figures not adjusted for additional water available from New London during the summer months.**

**3. Significant Items**

1. Precipitation was 2.58 inches for the month of August
2. Staff is continuing meter replacement work. 281 meters have been installed in the month of August.
3. Water production demand has fallen by 5% since peaking in July and after mandatory water restrictions were enacted. The banked water from New London has been depleted. The department will need to pump extra water this fall to make up for the deficit.
4. Well 5A is online and due to high residual iron requires filter backwashing every 8-10 hours. A control system has been implemented to allow for scheduled backwashing events throughout the day.



**EAST LYME WATER DEPARTMENT**

**Historic Monthly Water Production Report (x1,000)**

	<b>13-14</b>	<b>14-15</b>	<b>15-16</b>	<b>16-17</b>	<b>17-18</b>	<b>18-19</b>	<b>19-20</b>	<b>20-21</b>	<b>21-22</b>	<b>AVG. Previous Years</b>	<b>22-23</b>	<b>% +/- (Previous Years)</b>	<b>Monthly Precip. (in.)</b>
<b>July</b>	75953	72074	80638	81529	67948	67364	69703	64939	62206	72519	79552	9.70%	1.00
<b>Aug.</b>	72609	69962	71557	73078	62844	61898	65912	66044	63933	67988	75649	11.27%	2.58
<b>Sept.</b>	61524	54918	62752	56264	48592	52642	58151	56757	55281	56450			
<b>Oct.</b>	55600	50298	56829	53767	45152	48004	51836	48088	53507	51197			
<b>Nov.</b>	53195	46624	56798	51876	39400	51065	45917	40639	52801	48189			
<b>Dec.</b>	61753	51289	59049	53697	45664	40675	48171	40399	56781	50087			
<b>Jan.</b>	64296	53405	55502	55699	48433	44334	44334	45053	63884	51382			
<b>Feb.</b>	55226	50538	58426	56887	41951	44733	47832	41912	61236	49688			
<b>Mar.</b>	63206	55848	56130	55300	44903	54467	50150	48343	65938	53543			
<b>Apr.</b>	58447	54891	56931	49606	46231	52493	48753	49554	60322	52113			
<b>May</b>	65790	68621	65388	58395	51915	57692	55327	57411	65009	60067			
<b>Jun.</b>	71966	64086	74172	64325	57332	58021	64665	57685	68306	64032			
<b>Total</b>	759565	692554	754172	710423	600365	633388	650751	616824	729204	677255			3.58
<b>% +/- (Previous Year)</b>	9.99%	-8.82%	8.90%	-5.80%	-15.49%	5.50%	2.74%	-5.21%	18.22%				
<b>% +/- Running Annual Average</b>												10.48%	

**EAST LYME WATER DEPARTMENT**

**Historic Monthly Water Production Report (x1,000)**

	<b>13-14</b>	<b>14-15</b>	<b>15-16</b>	<b>16-17</b>	<b>17-18</b>	<b>18-19</b>	<b>19-20</b>	<b>20-21</b>	<b>21-22</b>	<b>22-23</b>	<b>% +/- (Previous Year)</b>	<b>Monthly Precip. (in.)</b>
<b>July</b>	75953	72074	80638	81529	67948	67364	69703	64939	62206	79552	27.88%	1.00
<b>Aug.</b>	72609	69962	71557	73078	62844	61898	65912	66044	63933	75649	18.33%	2.58
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<b>Nov.</b>	53195	46624	56798	51876	39400	51065	45917	40639	52801			
<b>Dec.</b>	61753	51289	59049	53697	45664	40675	48171	40399	56781			
<b>Jan.</b>	64296	53405	55502	55699	48433	44334	44334	45053	63884			
<b>Feb.</b>	55226	50538	58426	56887	41951	44733	47832	41912	61236			
<b>Mar.</b>	63206	55848	56130	55300	44903	54467	50150	48343	65938			
<b>Apr.</b>	58447	54891	56931	49606	46231	52493	48753	49554	60322			
<b>May</b>	65790	68621	65388	58395	51915	57692	55327	57411	65009			
<b>Jun.</b>	71966	64086	74172	64325	57332	58021	64665	57685	68306			
<b>Total</b>	759565	692554	754172	710423	600365	633388	650751	616824	729204			3.58
<b>% +/- (Previous Year)</b>	9.99%	-8.82%	8.90%	-5.80%	-15.49%	5.50%	2.74%	-5.21%	18.22%			
<b>% +/- Running Annual Average</b>											23.11%	

**EAST LYME WATER DEPARTMENT  
Well Production Report - August 2022**

Withdrawals	Well 1A		Well 2A		Well 3A		Well 3B		Well 4A		Well 5		Well 6		Wells 3A/3B	Wells 2A/3A/3B	Daily Total (Wells)	Water From NL	Water To NL	Daily Total (Wells & NL)(3)	
	(MGD)	(WL-ft)	(MGD)	(WL-ft)	(MGD)	(WL-ft)	(MGD)	(WL-ft)	(MGD)	(WL-ft)	(MGD)	(WL-ft)	(MGD)	(WL-ft)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	(MGD)	
Max. Reg./Perm.(1,2)	1.160		0.864		0.560		0.993		0.547		0.780		0.440		0.993	1.857	4.784	1.000	1.000	5.784	
24-hr Pumping	1.160		0.648		0.446		0.993		0.324		0.619		0.440		1.439	2.087	4.630	0.500	NA	5.130	
18-hr Pumping	0.870		0.486		0.335		0.745		0.243		0.464		0.330		1.080	1.566	3.473	0.500	NA	3.973	
SFR 24-hr Pumping(2)	1.160		0.648		0.446		0.993		0.324		0.000		0.000		0.993	1.641	3.125	0.500	NA	3.625	
SFR 18-hr Pumping	0.870		0.486		0.335		0.745		0.243		0.000		0.000		0.745	1.231	2.344	0.500	NA	2.844	
Monthly Average	0.804		0.388		0.267		0.441		0.164		0.017		0.054		0.709	1.097	2.118	0.316	0.000	2.440	
Date	"Alert" Trigger	12.0		4.0		15.0		20.0		6.0		18.0		22.0						Precip	
																				inches	
8/1/2022	0.645	8.7	0.267	18.0	0.241	7.0	0.400	25.6	0.116	5.10			0.000	39.5	0.641	0.909	1.670	0.264	0.000	1.934	0.18
8/2/2022	0.765	9.4	0.272	18.0	0.271	7.0	0.473	26.1	0.168	5.00			0.261	33.6	0.744	1.015	2.209	0.270	0.000	2.479	0.00
8/3/2022	0.812	9.4	0.282	18.0	0.260	6.5	0.456	25.8	0.193	5.10			0.328	33.5	0.716	0.998	2.331	0.267	0.000	2.598	0.02
8/4/2022	0.829	9.3	0.327	18.0	0.262	9.0	0.465	25.9	0.169	5.10			0.348	33.3	0.727	1.054	2.400	0.470	0.000	2.870	0.00
8/5/2022	1.021	9.1	0.337	18.0	0.291	9.0	0.504	25.6	0.190	5.00			0.105	39.2	0.795	1.132	2.448	0.488	0.000	2.936	0.00
8/6/2022	0.826	8.9	0.379	18.0	0.333	9.0	0.587	25.7	0.191	4.90			0.000	39.3	0.920	1.299	2.315	0.575	0.000	2.890	0.00
8/7/2022	1.034	8.7	0.388	18.0	0.317	8.5	0.548	25.4	0.227	5.00			0.000	39.6	0.865	1.253	2.515	0.526	0.000	3.041	0.00
8/8/2022	0.895	8.3	0.320	18.0	0.292	8.5	0.502	25.4	0.191	4.80			0.000	39.8	0.794	1.114	2.200	0.550	0.000	2.750	0.00
8/9/2022	0.939	8.3	0.331	18.0	0.314	8.5	0.562	25.4	0.178	5.00			0.000	39.9	0.876	1.207	2.324	0.439	0.000	2.763	0.00
8/10/2022	0.827	8.0	0.458	18.0	0.255	9.0	0.436	25.5	0.143	5.00			0.000	40.0	0.691	1.149	2.119	0.412	0.000	2.531	0.00
8/11/2022	0.825	8.1	0.459	10.0	0.271	9.0	0.457	25.6	0.191	5.00			0.000	40.0	0.728	1.187	2.202	0.269	0.000	2.471	0.00
8/12/2022	0.873	7.8	0.429	9.0	0.297	9.0	0.497	25.7	0.172	4.90			0.000	40.1	0.794	1.223	2.268	0.531	0.000	2.799	0.05
8/13/2022	0.862	7.6	0.451	9.0	0.259	9.0	0.426	25.5	0.158	4.90			0.000	40.2	0.685	1.137	2.157	0.365	0.000	2.522	0.00
8/14/2022	1.173	7.5	0.591	9.0	0.293	9.0	0.501	25.7	0.230	5.00			0.000	40.2	0.794	1.385	2.788	0.380	0.000	3.168	0.00
8/15/2022	0.797	7.0	0.411	9.0	0.326	9.0	0.514	25.5	0.149	5.00			0.000	40.3	0.840	1.251	2.197	0.409	0.000	2.606	0.00
8/16/2022	0.798	6.8	0.432	9.0	0.237	9.0	0.405	25.7	0.181	5.00			0.000	40.3	0.642	1.074	2.053	0.394	0.000	2.447	0.00
8/17/2022	0.749	7.0	0.458	9.0	0.284	9.0	0.422	25.6	0.120	5.10			0.000	40.3	0.706	1.164	2.033	0.240	0.000	2.273	0.14
8/18/2022	0.778	12.7	0.275	9.0	0.187	9.0	0.339	26.2	0.157	9.40			0.000	40.4	0.526	0.800	1.736	0.196	0.000	1.932	0.69
8/19/2022	0.810	7.1	0.441	9.0	0.265	9.0	0.421	25.8	0.176	5.10			0.000	40.4	0.686	1.127	2.114	0.256	0.000	2.370	0.02
8/20/2022	0.724	7.1	0.439	9.0	0.305	10.0	0.487	25.9	0.146	5.10			0.000	40.4	0.792	1.231	2.100	0.260	0.000	2.360	0.00
8/21/2022	0.846	7.0	0.454	9.0	0.240	10.0	0.378	25.6	0.164	5.10	0.000	34.7	0.000	40.4	0.618	1.072	2.081	0.259	0.000	2.340	0.00
8/22/2022	0.628	6.8	0.346	9.0	0.219	10.0	0.348	25.9	0.123	5.10	0.094	34.7	0.000	40.4	0.567	0.914	1.759	0.235	0.000	1.994	0.02
8/23/2022	0.743	7.3	0.347	9.0	0.242	11.0	0.375	26.0	0.127	5.10	0.089	34.8	0.310	35.7	0.617	0.965	2.233	0.026	0.000	2.259	0.75
8/24/2022	0.246	12.3	0.248	12.0	0.197	41.0	0.317	33.1	0.113	5.20	0.000	15.8	0.194	39.1	0.514	0.762	1.316	0.027	0.000	1.343	0.68
8/25/2022	0.844	8.0	0.423	10.0	0.275	10.0	0.380	26.1	0.169	5.10	0.000	34.4	0.110	34.4	0.655	1.078	2.200	0.093	0.000	2.293	0.02
8/26/2022	0.703	7.7	0.412	10.0	0.262	10.0	0.466	26.2	0.154	5.10	0.000	34.6	0.013	35.4	0.728	1.140	2.009	0.272	0.000	2.281	0.00
8/27/2022	0.819	7.6	0.414	10.0	0.261	11.0	0.408	25.9	0.153	5.20	0.000	34.6	0.000	40.3	0.669	1.083	2.055	0.274	0.000	2.329	0.00
8/28/2022	0.941	7.5	0.385	9.0	0.280	11.0	0.437	26.0	0.175	5.10	0.000	34.6	0.000	40.4	0.717	1.103	2.218	0.266	0.000	2.484	0.00
8/29/2022	0.748	7.2	0.465	9.0	0.245	11.0	0.385	25.8	0.150	5.30	0.000	34.6	0.000	40.4	0.630	1.095	1.993	0.269	0.000	2.262	0.00
8/30/2022	0.680	7.2	0.402	9.0	0.287	11.0	0.455	26.0	0.163	5.10	0.000	34.7	0.000	40.5	0.742	1.144	1.987	0.257	0.000	2.244	0.00
8/31/2022	0.749	7.3	0.393	9.0	0.219	11.0	0.331	25.9	0.133	9.30	0.000	34.7	0.000	40.5	0.550	0.942	1.824	0.258	0.000	2.082	0.01
Average	0.804	8.2	0.388	12.1	0.267	10.3	0.441	26.0	0.164	5.33	0.017	32.9	0.054	39.0	0.709	1.097	2.118	0.316	0.000	2.440	0.09
Minimum	0.246	6.8	0.248	9.0	0.187	6.5	0.317	25.4	0.113	4.80	0.000	15.8	0.000	33.3	0.514	0.762	1.316	0.026	0.000	1.343	0.00
Maximum	1.173	12.7	0.591	18.0	0.333	41.0	0.587	33.1	0.230	9.40	0.094	34.8	0.348	40.5	0.920	1.385	2.788	0.575	0.000	3.168	0.75
Total	24.929		12.035		8.287		13.681		5.068		0.183		1.669		21.968	34.003	65.852	9.797	0.000	75.649	2.58

Notes:

- MGD = Million Gallons Per Day
- WL = Water (in feet) above the airline or pressure transducer (set approximately 4 ft above the pump suction for each well; 17 ft above suction for Well 4A).
- SFR = stream flow restrictions (Wells 5 and 6 not operating).
- NR = No Reading Available
- (1) A condition of the Well 3A diversion permit limits the combined maximum withdrawal from Wells 2A, 3A, and 3B to 1.857 mgd.
- (2) Another condition of the Well 3A permit restricts the combined maximum withdrawal from Wells 3A and 3B to 0.864 mgd during "low" stream flow. If Well 3A is not pumped, Well 3B alone can be pumped at 0.993 mgd during "low" stream flow.
- (3) Totals represent well production plus water from New London. Does not include water to New London.

% Recvd. of Total Monthly Demand	12.98	Total Monthly Demand	
% of Total Sent to NL (Wells)		0.00	75.649
Running Total (water received 2022)	19,816		
Goal	14,850		
% of Goal	133		
Running Total (water sent to NL 2022)		17,486	
Goal		22,784	
% of Goal		77%	

September 2022

East Lyme Sewer Maintenance Report for August 2022

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1. Sewer tie-ins, inspections and CBYDs at various locations
2. Daily chemical machine checks and maintenance
3. Monthly alarm tests and meter readings
4. Daily station maintenance checks
5. General Sewer Pump Station Maintenance
6. Run Electrical Service (Telemetry Building) 90 Roxbury RD
7. General equipment maintenance
8. Monitor Odor Control System 31 Arbor Xing for H2s
9. Monitor Oder Control System. 170 Giants Neck Rd for H2S
10. Monitor H2S (Point O Woods)
11. Maintenance. (Bride Brook Station)
12. Wet Well Wash downs (Laurel ST Pump Station
13. Ground Maintenance (Laurel St Pump Station).
14. Install New Pump controls (South St Station)

EAST LYME  
WATER & SEWER COMMISSION  
  
SEP 27 2022  
  
AGENDA # 13b

# Sewer Department Monthly Report

September 27 2022

Aug-22      Monthly Running Avg:      969,260 GPD  
Daily Avg:      1,000,871 GPD  
Daily Max:      1,026,221 GPD  
Daily Min:      904,878 GPD

Daily Average as a Percent of Monthly Running Average:      103.26%  
Daily Average as a Percent of 1.5 MGD Allotment at NLWWTP:      66.72%

**State CT Flows:**

	DOC	Camp Nett	Rocky Neck	POW	Pine Grove	Total
Actual GPD AVG.	116,003	12,854	0	27,691	40,000	196,548
Design GPD AVG.	250,000	58,400	24,600	105,000	40,000	478,000
% of Design GPD	46.4%	22.01%	0	26.37%	100.00%	41.12%
% of East Lyme Average Daily Flow	11.59%	1.28%	0.00%	2.77%	4.00%	19.64%
% of East Lyme 1.5 MGD Allotment	7.73%	0.86%	0.00%	1.85%	2.67%	13.10%

**Footnotes:**

Camp Nett Meter has malfunctioned and will be estimated using last year flows until it is repaired

**EAST LYME SEWER FLOWS - HISTORY**

	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>% +/- Prev. Yr.</b>	<b>Precip. 2022 (in.)</b>
<b>JAN.</b>	1,011,343	787,646	747,284	784,837	781,519	1,090,311	849,497	938,302	942,646	0.46%	2.80
<b>FEB.</b>	994,771	832,681	809,701	765,648	865,263	842,611	859,175	911,422	988,646	8.47%	4.99
<b>MAR.</b>	1,026,812	1,017,280	790,851	777,452	927,771	893,805	832,803	886,441	948,873	7.04%	2.88
<b>APR.</b>	1,126,058	938,861	796,611	897,161	778,780	918,456	885,983	962,591	965,456	0.30%	3.75
<b>MAY</b>	1,145,107	913,816	777,446	872,268	746,049	947,042	900,485	951,501	922,857	-3.01%	2.52
<b>JUN.</b>	1,007,792	880,190	815,281	849,504	906,535	875,000	882,463	976,981	989,299	1.26%	3.62
<b>JUL.</b>	1,038,583	1,048,427	879,952	883,851	1,026,307	977,552	853,930	1,047,771	995,433	-5.00%	1.00
<b>AUG.</b>	999,147	977,543	868,636	873,017	905,718	932,181	911,419	978,158	1,000,871	2.32%	2.58
<b>SEPT.</b>	837,706	878,563	762,544	769,493	875,918	833,237	823,590	1,051,008			
<b>OCT.</b>	852,281	861,521	738,247	752,273	903,915	806,576	812,506	917,384			
<b>NOV.</b>	787,769	803,842	709,481	732,848	871,111	815,129	786,482	937,414			
<b>DEC.</b>	835,260	788,121	728,649	728,437	894,050	927,335	896,694	895,121			
<b>RUNNING AVERAGE</b>	971,886	894,041	785,390	807,232	873,578	904,936	857,919	954,508	969,260	1.48%	3.02
										<b>Precip. Total</b>	<b>24.14</b>

**EAST LYME SEWER FLOWS - HISTORY**

	2014	2015	2016	2017	2018	2019	2020	2021	AVG. Prev. Years	2022	% +/- AVG. Prev. Years	Precip. 2022 (in.)
JAN.	1,011,343	787,646	747,284	784,837	781,519	1,090,311	849,497	938,302	873,842	942,646	7.9%	2.80
FEB.	994,771	832,681	809,701	765,648	865,263	842,611	859,175	911,422	860,159	988,646	14.9%	4.99
MAR.	1,026,812	1,017,280	790,851	777,452	927,771	893,805	832,803	886,441	894,152	948,873	6.1%	2.88
APR.	1,126,058	938,861	796,611	897,161	778,780	918,456	885,983	962,591	913,063	965,456	5.7%	3.75
MAY	1,145,107	913,816	777,446	872,268	746,049	947,042	900,485	951,501	906,714	922,857	1.8%	2.52
JUN.	1,007,792	880,190	815,281	849,504	906,535	875,000	882,463	976,981	899,218	989,299	10.0%	3.62
JUL.	1,038,583	1,048,427	879,952	883,851	1,026,307	977,552	853,930	1,047,771	969,547	995,433	2.7%	1.00
AUG.	999,147	977,543	868,636	873,017	905,718	932,181	911,419	978,158	930,727	1,000,871	7.5%	2.58
SEPT.	837,706	878,563	762,544	769,493	875,918	833,237	823,590	1,051,008	854,007			
OCT.	852,281	861,521	738,247	752,273	903,915	806,576	812,506	917,384	830,588			
NOV.	787,769	803,842	709,481	732,848	871,111	815,129	786,482	937,414	805,510			
DEC.	835,260	788,121	728,649	728,437	894,050	927,335	896,694	895,121	836,708			
<b>AVG.</b>	971,886	894,041	785,390	807,232	873,578	904,936	857,919	954,508	881,186	969,260	7.1%	3.02
											<b>Precip. Total</b>	24.14

East Lyme Sewer Department

Monthly Average Day Wastewater Flows (MGD)

September 27 2022  
Sewer Flows for the Month of August

Year	Month	East Lyme Allocation (1.5 mgd)			State Allocation (0.478 mgd)					State Allocation Total Used	State Allocation Remaining	East Lyme Allocation Used	East Lyme Allocation Remaining
		Niantic PS			DOC	Camp Nett	Rocky Neck	POW	Pine Grove				
		Daily Avg	Daily Max	Daily Min	0.250	0.058	0.025	0.105	0.040				
2022	January	0.943	1.133	0.683	0.104	0.005	0.000	0.010	0.040	0.159	0.319	1.261	0.239
	February	0.989	1.112	0.829	0.145	0.017	0.000	0.011	0.040	0.213	0.265	1.254	0.246
	March	0.949	1.273	0.735	0.127	0.002	0.000	0.011	0.040	0.180	0.298	1.247	0.253
	April	0.965	1.120	0.873	0.139	0.010	0.000	0.014	0.040	0.203	0.275	1.240	0.260
	May	0.923	0.991	0.885	0.099	0.005	0.000	0.009	0.040	0.153	0.326	1.249	0.252
	June	0.989	0.989	0.602	0.106	0.008	0.000	0.022	0.040	0.176	0.302	1.291	0.209
	July	0.995	1.111	0.681	0.108	0.013	0.000	0.035	0.040	0.196	0.282	1.277	0.223
	August	1.001	1.026	0.905	0.116	0.013	0	0.028	0.04	0.197	0.281	1.282	0.218
	September												
	October												
	November												
	December												
Annual Avg. (Jan - Dec)		0.969	1.094	0.774	0.118	0.009	0.000	0.018	0.040	0.185	0.293	1.263	0.237
Annual Average (4 years, 7 Months)											1.153	0.309	

East Lyme Sewer Department

Monthly Average Day Wastewater Flows (MGD)

September 27 2022  
Sewer Flows for the Month of August

		Total Daily Combined Flows from East Lyme and State			State Average Daily Flows by Facility					State Allocation (0.478 MGD)			East Lyme Allocation (1.022 MGD)				
Year	Month	Niantic Sewer Pump Station Flows			DOC	Camp Nett	Rocky Neck	POW	Pine Grove	Daily Usage	Capacity Remaining	Percent Capacity Remaining	Daily Usage	Capacity Remaining	Percent Capacity Remaining		
		Average	Max	Min	0.250	0.058	0.025	0.105	0.040								
2022	January	0.943	1.133	0.683	0.104	0.005	0.000	0.010	0.040	0.159	0.319	67%	0.783	0.239	23%		
	February	0.989	1.112	0.829	0.145	0.017	0.000	0.011	0.040	0.213	0.265	55%	0.776	0.246	24%		
	March	0.949	1.273	0.735	0.127	0.002	0.000	0.011	0.040	0.180	0.298	62%	0.769	0.253	25%		
	April	0.965	1.120	0.873	0.139	0.010	0.000	0.014	0.040	0.203	0.275	58%	0.762	0.260	25%		
	May	0.923	0.991	0.885	0.099	0.004	0.000	0.009	0.040	0.152	0.326	68%	0.771	0.251	25%		
	June	0.989	0.989	0.602	0.106	0.008	0.000	0.022	0.040	0.176	0.302	63%	0.813	0.209	20%		
	July	0.995	1.111	0.681	0.108	0.013	0.000	0.035	0.040	0.196	0.282	59%	0.799	0.223	22%		
	August	1.001	1.026	0.905	0.116	0.013	0.000	0.028	0.040	0.197	0.281	59%	0.804	0.218	21%		
	September																
	October																
	November																
	December																
Annual Avg. (Jan - Dec)		0.969	1.094	0.774	0.118	0.009	0.000	0.018	0.040	0.185	0.293	61%	0.785	0.237	23%		
All figures reported in Million Gallons Daily (MGD)												Annual Average (4 years, 7 Months)			0.713	0.309	30%