

**EAST LYME WATER AND SEWER COMMISSION  
AGENDA  
July 23, 2024**

**Regular Meeting  
East Lyme Town Hall  
(Upstairs Main Meeting Room)**

**7 PM**

- 1. Call to Order / Pledge of Allegiance**
- 2. Approval of Minutes**
  - a. Regular Meeting Minutes – June 25, 2024**
- 3. Delegations**
- 4. Correspondence Log**
- 5. Billing Adjustments/Disputes - None**
- 6. Approval of Bills – Attachment A**
- 7. Finance Director Report**
- 8. Project Updates**
  - a. Well 2A/3A/3B WTP Upgrade Project**
- 9. Discussion and Possible Action on Niantic Force Main Condition Assessment**
- 10. Discussion and Possible Action on ‘Bridebrook Pump Station Alternatives Analysis’ for Obtaining an Easement for a New Station**
- 11. Discussion and Possible Action on Spinnaker FY25 Rates**
- 12. Chairman’s Report**
- 13. Staff Updates**
  - a. Water Department Monthly Report**
  - b. Sewer Department Monthly Report**
- 14. Future Agenda Items**
  - a. Capital Projects Subcommittee**
  - b. Finance Subcommittee**
- 15. Adjournment**

**EAST LYME WATER & SEWER COMMISSION  
REGULAR MEETING  
TUESDAY, JUNE 25, 2024  
MINUTES**

The East Lyme Water & Sewer Commission held a Regular Meeting on June 25, 2024. Chairman Dan Cunningham called the Regular Meeting at 7:00 PM.

**PRESENT:** Dan Cunningham Chairman, Dave Murphy, Dave Bond, Dave Zoller, Carol Russell, Ken Roberts, Roger Spencer

**ALSO PRESENT:** Ben North, Chief Operating Officer  
Matt Garneau, Utility Engineer  
Anne Cicchiello, Deputy First Selectman

**ABSENT:** Michelle Williams

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

Chairman Dan Cunningham called the Regular Meeting for the Town of East Lyme Water and Sewer Commission to order at 7:00 PM. The Pledge was observed.

**2. Approval of Minutes**

Mr. Cunningham called for a motion to approve or any discussion on the Meeting Minutes of May 28, 2024. Mr. Zoller mentioned that on the Vote Line of each Motion, it is not necessary to add the absentee voters for each motion. In the future, the absentee voters will be noted as "0" (E.g., 6-0-0 instead of 6-0-2).

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

**Mr. Murphy moved to approve the Regular Meeting Minutes of May 28, 2024**

**Mr. Zoller seconded the motion.**

**Vote: 5 – 2– 0**

**Motion passed.**

**3. Delegations**

Mr. Cunningham called for delegations. There were none.

**4. Correspondence Log**

Mr. Cunningham went over the correspondence log.

**5. Billing Adjustments**

Mr. Cunningham called for billing adjustments.

**a. 267 Flanders Road (Starbucks)**

Mr. North mentioned that this is a commercial building and that the commission needs to make decision on the 1 in 10 Request. Mr. North proposed that because the water department now has the smart meters with data available daily that 1-in-10 Requests should be dealt with

**EAST LYME  
WATER & SEWER COMMISSION**

JUL 23 2024

**AGENDA# 2a**

RECEIVED FOR RECORD  
2024 JUL -2 A 9:07  
Cunningham  
TOWN CLERK

differently. In the past, requests were calculated using the readings for the entire course of a billing cycle. In this situation, the department alerted the customer of their leak because it was on the high consumption report that is run weekly. Mr. North pointed out that the attached reports show that this customer was alerted of the leak on February 5<sup>th</sup>, 2024 and that the leak was not fixed until March 13<sup>th</sup>, 2024. Mr. North would like to propose a new concept when dealing with these requests: when the staff identify the leak and alerts the customer, that alert we should serve as the start point for how long it takes to fix the leak. Mr. North continues that the idea is to have customers act on fixing or preventing further issues as soon as they are alerted. In this example (227 Flanders Rd.), Mr. North notes that the data was analyzed using the existing process (Agenda Attachment Version 1 for 1-in-10 request) and also using a proposed process (Version 2). In Version 2, the department proposes using the property's average meter readings (without a leak) for the calculation of the time between when the customer was alerted, and the leak was fixed. In this manner, the adjustment is reduced because it would reflect the possible water usage if the leak was fixed in a timely manner. Mr. North reiterates that with the new meter's technology and data availability, the process of calculation for 1-in-10 Requests needs to be revised and, that customers need to be diligent on getting leaks fixed.

Mr. Roberts noted that contractors are very hard to schedule these days and that a reasonable time should be offered to the customers to fix leaks. Mr. North responded that this is valid point, and it needs to be investigated.

Mrs. Russell asked how the algorithm for the leak reports are set up. Mr. Garneau answered that the meter system software is programmed to send out a leak report weekly. Once this report is e-mailed to the meter technician, it is analyzed and prioritized. A post card is sent to inform the customer of leak and provides the gallons/hour usage, pointers on how to fix the leak and a phone number to contact the water department. Depending on how large the leak is, the technician may decide to call or attempt to contact the customer in person.

Mrs. Russell agreed that a grace period is necessary and that it needs to be documented on the policy. She also said that information on the dates can be provided on the alert post card. Mr. Murphy agreed that the policy needs to be updated since we have new technology and data to adjust the bill.

Mr. Roberts asked Mr. North to provide the commission with the proposed changes on the policy to be reviewed. He also mentioned that the proposed changes should be reviewed by the town's attorney. Furthermore, he proposed that in the future, the 1-in-10 Adjustments should only be available for the properties with the new meters that were replaced by the department during its meter replacement program.

Mr. North summarized that the commission agrees that a new 1-in-10 policy is necessary that will be available only to properties that have replaced the meter and, that a grace period should also be in place. Mrs. Russell noted that this grace period should be appropriate to give both staff and customer to identify and fix the leak. She also noted that existing customers who have not yet replaced their meters, should be notified of their future inability to use the 1-in-10 Adjustment.

Mr. Cunningham asked if a motion was needed to approve the adjustment to the bill for 227 Flanders Rd.

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

**Mr. Murphy moved to approve the request to an adjustment of the bill via 1-in-10 Adjustment request for 227 Flanders Rd. using Version 1 of calculations.**

**Mr. Zoller seconded the motion.**

**Vote: 7 – 0– 0**

**Motion passed.**

**6. Approval of Bills**

There were none.

**7. Finance Director Report**

Mr. Gervais was not present at the meeting. Mr. North mentioned that Mr. Gervais will be able to provide a more detailed overview of the end of the fiscal year in the next meeting.

**8. Discussion on Preliminary Engineering Report for Well 4A and Well 1A/6 PFAS Removal Project**

Mr. North mentioned that this report is a draft, and that the department will be meeting with Tighe and Bond next week to discuss things that need clarification. Mr. North said that he is planning on getting an OPC for the entire project instead of the OPC for only the treatment that Tighe and Bond provided at this time. He went on to say that the cost of treatment is around \$1.3M but this number will be clarified as they move forward. The \$1.3M is a number on the low end of treatment – only covering the filters cost. The OPC provided now will allow some finance decisions to be made and to hire an engineer based on its findings. He also mentioned that they will be progressing on to the QBS process this summer and that hopefully, by October/November the department will find out if any funding will be available from the state for the treatment of drinking water and an engineer selected. The design should be done by mid-winter and the project should be out to bid by early Spring.

Mrs. Russell asked if there were any plans for the prevention of PFAS. Mr. North responded that there are federal regulations to limit production of such products, but the department is concentrating on how to treat it. Mr. North also mentioned that maybe the department could contact the fire department to find out if they're still using PFAS, Mr. Cunningham said that he believes the fire department has removed that were identified as PFAS about 2-3 years ago, per a state mandate.

Mr. Roberts asked if the staff was confident that the granulated, activated carbon and the ionic exchange resin are the only two things that need to be evaluated as alternatives. Mr. North responded that because this issue is so new, there is still an expected technology boom to happen, and other options will surface to be investigated.

Mr. Roberts noted that the comparison tables in the report were very detailed but he wanted to know that a life cycle report analysis had been provided. Mr. North responded that again, because this issue is so new, there is no way to come up with a long-term cost.

Mr. Roberts mentioned that he would like to see a recommendations section on the report. Mr. Garneau responded that this project is in a preliminary state and that future meetings with Tighe and Bond will clarify a lot of these doubts.

Mr. Murphy asked if there were any funds available from the government to cover the cost of treating PFAS. Mr. North responded that he is not aware of any federal funding. From what he understands, the federal government would distribute any funding available to individual states.

Mrs. Russell asked if our Attorney General was pursuing lawsuits against the companies that produced PFAS. Mr. North responded that Mr. Garneau had been on a call with a law firm that may be pursuing a suit, but more information will be provided later.

## 9. Project Updates

### a. Well 5A WTP Lagoon Improvement Project

Mr. Garneau reported that Well 5A lagoons have been completed. The only things left to do were establishing some grass and minor fencing. The contractors have reported that they have demobilized the lagoons. The lagoons are now working and in the past the lagoons were full. Now they are empty and only being used for the backwashing twice a day.

### b. Well 2A/3A/3B WTP Upgrade Project

Mr. Garneau reported that Phase I was approved by the state last week which means that department can bring most of the new chemical feed system online. The IT vendor was brought on board, and he did a major upgrade and integration of the SCADA system – that's how our operators get alarms and know what is going on. The department is going to be submitting the Phase II request to the state which will be the final approval to run Well 2A water through the Bridebrook Water Treatment plant. The water main was flushed and chlorinated last week and got the sample results back – once the state reviews those, that will be the final step to get the water treated through the Bridebrook Water Treatment after July 1<sup>st</sup>.

## 10. Chairman's Report

Mr. Cunningham reported that there was a server issue over the weekend that became critical at some point which was resolved in a timely manner.

## 11. Staff Updates

### a. Water Department Monthly Report

Mr. North wanted to point out that some of the distribution personnel have been working on the corner of Main St. and Black Point Rd. (picture was shared) – the assumption of a break on a 6" in. lateral turned out to be a hydrant main that had been erroneously installed years ago. Personnel were able to replace the broken part of the main all in one day. Mr. North wanted to share some of the work that the crew does in daily basis that keeps the whole system running. Mrs. Russell mentioned that this is a great example of how financial support for hydrants is important because it goes beyond maintenance of hydrants to underground and system flows.

Mr. Murphy pointed out the number of meters that still need to be replaced. Mr. North and Mr. Garneau mentioned that this number is not constant and that the number of meters to be replaced is probably close to one hundred to two hundred meters.

Mrs. Russell noted that she noticed in the report that 133 hydrants have been flushed so far this season and wanted to know if other maintenance is done at the same time as the flushing. Mr. North responded that replacement of caps and other parts are done at the same time. He also mentioned that a report could be provided in the next meeting that would pull numbers and more information on maintenance of hydrants.

**b. Sewer Department Monthly Report**

Mr. North reported that the sewer capacities are holding steady. He also reported that he is expecting the numbers to be up in the next month's report.

Mr. Murphy asked about Rocky Neck in relation to sewer connection. Mr. North answered that communication has restarted with the DEEP. Mr. North is confident that eventually they will tie into the sewer system. He will have more information in next months.

**12. Future Agenda Items**

**a. Capital Projects Subcommittee**

Mr. North would like to finalize the draft PER report with Tighe and Bond first and then schedule a meeting. Mr. Murphy mentioned that a maintenance plan for the Bridebrook Treatment Plan should be added to this subcommittee's list of subjects. Mr. North and Mr. Garneau agree.

**13. Adjournment**

Mr. Cunningham called for a motion to adjourn.

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

**Mr. Murphy moved to adjourn this Regular Meeting of the East Lyme Water and Sewer Commission at 8:17 PM.**

**Mr. Zoller seconded the motion.**

**Vote 7-0-0**

**The motion passed.**

Respectfully submitted,

Tania Ranelli  
Recording Secretary



**ATTACHMENT A**  
**APPROVAL OF BILLS**

**EAST LYME WATER & SEWER COMMISSION**

**July 23, 2024**

**1. PFAS Preliminary Engineering Survey**

**2. DOT Water and Sewer Relocation Project**

a. Weston & Sampson Inv. No. 6241215	\$	4,360.00
b. Weston & Sampson Inv. No. 7241159	\$	2,000.00

**EAST LYME  
WATER & SEWER COMMISSION**

**JUL 23 2024**

**AGENDA# 6**

Tax ID No: 04-2601194

# INVOICE

PLEASE MAKE CHECKS PAYABLE TO:  
Weston & Sampson Engineers, Inc.



55 Walkers Brook Drive, Suite 100, Reading, MA 01867  
westonandsampson.com Tel: 978.532.1900

Ben North  
EAST LYME CT, TOWN OF  
108 Pennsylvania Avenue  
Niantic, CT 06357

June 6, 2024  
Project No: ENG24-0653  
Invoice No: 6241215

Project ENG24-0653 EAST LYME CT RT 156 BRIDGE FORCE MAIN  
PO # 24-02756

**Professional Services through May 24, 2024**

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
McKenna, Kevin	13.00	220.00	2,860.00
Tedeschi, Robert	5.00	300.00	1,500.00
Totals	18.00		4,360.00
<b>Total Labor</b>			<b>4,360.00</b>

**TOTAL THIS INVOICE \$4,360.00**

RECOMMENDED FOR PAYMENT

**DIRECTOR PUBLIC WORKS C.O.O.**

APPROVED FOR PAYMENT \_\_\_\_\_

**CHAIRMAN**

**EAST LYME WATER & SEWER COMMISSION**

Tax ID No: 04-2601194

# INVOICE

**PLEASE MAKE CHECKS PAYABLE TO:**  
Weston & Sampson Engineers, Inc.



55 Walkers Brook Drive, Suite 100, Reading, MA 01867  
westonandsampson.com Tel: 978.532.1900

Ben North  
EAST LYME CT, TOWN OF  
108 Pennsylvania Avenue  
Niantic, CT 06357

July 8, 2024  
Project No: ENG24-0653  
Invoice No: 7241159

Project ENG24-0653 EAST LYME CT RT 156 BRIDGE FORCE MAIN  
PO # 24-02756

**Professional Services through June 28, 2024**

**Professional Personnel**

	<b>Hours</b>	<b>Rate</b>	<b>Amount</b>
McKenna, Kevin	5.00	220.00	1,100.00
Tedeschi, Robert	3.00	300.00	900.00
Totals	8.00		2,000.00
<b>Total Labor</b>			<b>2,000.00</b>

**TOTAL THIS INVOICE                    \$2,000.00**

**Outstanding Invoices**

<b>Number</b>	<b>Date</b>	<b>Balance</b>
6241215	6/6/2024	4,360.00
<b>Total</b>		<b>4,360.00</b>

RECOMMENDED FOR PAYMENT Ben North  
DIRECTOR PUBLIC WORKS C.O.O.

APPROVED FOR PAYMENT \_\_\_\_\_  
CHAIRMAN  
EAST LYME WATER & SEWER COMMISSION

## Request for Water & Sewer Commission

**TO:** Water & Sewer Commission

**FROM:** Ben North, Chief Operating Officer

**DATE:** July 18, 2024

**SUBJECT:** Additional Appropriation Request from Sewer Assessment Fund to fund a Proposal for a Condition Assessment of the Niantic Force Main.

**Summary of Agenda Item:**

East Lyme Sewer Department has been researching methods to investigate the condition of the Niantic Force Main that conveys the town's sewer flows to Waterford and New London for treatment. One successful method is to test soils near the pipe and water samples in Niantic Bay which the main passes underneath to better understand the possibility of corrosive conditions that could attack the pipe. A pipe sample "coupon" has already been analyzed and the interior and exterior of the pipe was found to be in good condition on land. This proposal will provide more insight into whether additional investigation of the underwater portion of the piping is warranted.

**Action Needed:**

Motion to transfer \$28,170 from funds available in the Sewer Assessment Fund into an account to be called "Niantic Force Main Condition Assessment" to fund engineering services to study soil and water conditions in contact with the force main to better understand its condition.

**Attachments:** Proposal for Condition Assessment of the East Lyme to Waterford Force Main for the Town of East Lyme, Connecticut.

**Prepared By:** Ben North, Chief Operating Officer

<p>W&amp;S Agenda Item No. <u>9</u> Date: 7/18/24</p>
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22 April 2024

Via email: [BNorth@eltownhall.com](mailto:BNorth@eltownhall.com)  
[MGarneau@eltownhall.com](mailto:MGarneau@eltownhall.com)

Mr. Ben North  
*Municipal Utilities Engineer*  
Mr. Matthew Garneau  
*Utilities Engineer*  
**Town of East Lyme**  
108 Pennsylvania Avenue  
P.O. Box 519  
Niantic, CT 06357

Subject: Proposal for Condition Assessment of the East Lyme to Waterford  
Force Main for the Town of East Lyme, Connecticut.

Gentlemen:

Pursuant to our site meeting on 17 April 2024 and your request, Corrosion Probe, Inc. (CPI) is pleased to submit this proposal for the above-referenced services.

As background, it is CPI's understanding that the force main is comprised of an 18-inch, cement mortar lined, thickness Class 53, ductile iron pipe. The force main originates at the Niantic Pump Station and proceeds along Route 1 to the Cini Park peninsula. From Cini Park, the force main alignment passes beneath the Niantic River. The force main comes back on the land side of the river in Waterford.

A coupon was removed from the force main just outside of the Niantic Pump Station for examination. This coupon was made available via piping modifications to the force main as part of the Pump Station upgrade project. The coupon was examined by CPI. The cement mortar lining is in excellent condition with no signs of acidic attack related to internal biogenic sulfide corrosion. The ductile iron shows no evidence of general corrosion or pitting corrosion from the outside or inside exposures. The external bituminous coating also appeared to be in very good condition. The force main was placed in service in 1988 and has not been evaluated for condition since that time. The record drawings indicate that cathodic protection was provided for the force main. Further review of record drawings will be required to understand the details regarding this cathodic protection system. There is no reported rectifier in the system which indicates the cathodic protection consisted of sacrificial anodes and not an impressed current cathodic protection system. Some test station locations are noted on the record drawings, but the locations of those stations need to be field verified.

CORPORATE HEADQUARTERS:

12 INDUSTRIAL PARK ROAD • P.O. BOX 178 • CENTERBROOK, CT 06409-0178 • PHONE: (860) 767-4402 • [WWW.CPIENGINEERING.COM](http://WWW.CPIENGINEERING.COM)  
ALABAMA • ARKANSAS • COLORADO • DELAWARE • FLORIDA • GEORGIA  
ILLINOIS • MAINE • MASSACHUSETTS • NEW JERSEY • ONTARIO • TEXAS

The Town of East Lyme is focused on having this condition assessment work performed to assure the reliability of the force main for the future. There is no evidence of prior leaks in the force main.

While onsite on April 17, 2024, CPI personnel viewed the force main at the interior of a manhole in Cini Park and observed the force main location at a Metering Station from the exterior on the Waterford side of the Niantic River. CPI was also made aware of the presence of an Air Release Valve (ARV) on the Waterford side of the force main.

The objectives of this condition assessment work have been established as follows:

1. Assess the existing conditions of the force main at accessible locations including manholes, a metering station, and at two (2) test pits to be excavated.
2. Determine the level of risk of active corrosion damage occurring on the exterior of the force main.
3. Make recommendations to assure the long-term reliability of the force main going forward including corrosion protection measures for the existing force main or parallel pipe installation, or a combination of measures.

**The Scope of CPI's Services** will be as follows:

- A. Review of record drawings and other design documents.

CPI will carefully review the drawings and other document available to determine the details regarding the original pipe alignment, location of test stations, cathodic protection design information, and other pertinent data. If original project specifications are available, this data will be very useful.

- B. Perform visual assessment of pipe coupon provided by the Town of East Lyme.

CPI will carefully assess the condition of the coupon visually and provide a write-up on its condition with coating thickness measurements and photographs.

- C. Perform detailed inspection of the condition of the force main at the Cini Park manhole and at the Metering Station on the Waterford side of the Niantic River.

This assessment work will include pipe to soil potential measurements, ultrasonic thickness measurements and pit depth gauge measurements of the pipe where accessible, visual examination, taking of digital photographs, and recording of all observations. Water samples will be taken at the Cini Park manhole and Metering Station to be tested for chloride concentration and conductivity.

- D. Perform detailed condition assessment of the force main at two (2) test pits to be excavated by the Town of East Lyme on the Cini Park peninsula. This work needs to be performed at low tide.

CPI will select these locations with the Town and perform the following assessment tasks:

- Pipe to soil potential measurements using a silver-silver chloride reference electrode.
  - Obtain ground water samples and soil samples from pipe burial depth to be tested for conductivity and chlorides for the water. For the soil, the parameters for testing will include pH, moisture content, soil type, resistivity, redox potential, chloride content, sulfate content, and the presence of sulfides. Two (2) soil samples will be obtained and tested for each test pit. One (1) water sample will be obtained and tested .
  - Perform U.T. measurements and pit depth gauge measurements on the exposed pipe. Compare to original Class 53 wall thickness.
  - Assess visually the condition of the external bituminous coating and measure its dry film thickness.
  - Document all findings with digital annotated photographs and written observations.
- E. CPI will compile all findings and analyze those findings including scoring the corrosivity of the water and soil samples. CPI will prepare a draft report to present to the Town of East Lyme at an in-person workshop.
- F. CPI will prepare a final report which will present all condition assessment findings, all document review findings, address all project objectives, draw conclusions as to condition and risk of corrosion damage to the force main, and provide recommendations going forward.

The **Cost of CPI's Services** as proposed herein will be as follows: Twenty-Eight Thousand One Hundred Seventy Dollars (\$28,170.00).

**Qualifications to this Proposal:**

1. CPI has assumed both manhole assessments can be completed in one (1) day on site. Town of East Lyme to provide access and pump out of water.
2. CPI has assumed one (1) day onsite for each of the two (2) test pit assessments. Town of East Lyme to provide excavation, trench box or other excavation support, backfilling, and water pumping.

3. CPI has assumed testing will be performed in our affiliate laboratory (Corrosion Testing Laboratories, Inc.) on two (2) water samples and four (4) soil samples.
4. Town of East Lyme will provide CPI with a full set of force main drawings and any other related records on the cathodic protection system for the force main.
5. Should proper assessment of the force main require another test pit at another location, CPI's costs would increase to conduct the additional field condition assessment work and add findings to the report.

We at CPI sincerely appreciate this opportunity to submit this proposal. We look forward to the honor of serving the Town of East Lyme.

This proposal is respectfully submitted for your review and consideration by,

**The Staff of Corrosion Probe, Inc.**



Robert A. (Randy) Nixon  
*President/Principal*

cc: D. Sherman – CPI  
L. Chauvin – CPI  
C. Ponte – CPI  
B. Annino – CPI  
M. Gartside – CPI

## Request for Water & Sewer Commission

**TO:** Water & Sewer Commission  
**FROM:** Ben North, Chief Operating Officer  
**DATE:** July 18, 2024

**SUBJECT:** Additional Appropriation Request from Sewer Assessment Fund to Update  
Bride Brook Sewer Pumping Station Site Alternatives Analysis

**Summary of Agenda Item:**

A meeting was recently held with DEEP land and easement acquisition staff regarding the Sewer Department's request for an increase in size of the current easement area at the Bride Brook Sewer Pumping Station, located at Rocky Neck State Park. DEEP staff seemed satisfied in the Department's exploration of alternate locations and the determination that the best option to upgrade and expand the capacity of the Bride Brook station is to acquire additional easement land from the State and National Parks Service. Towards this end, DEEP staff requested an up-to-date alternatives analysis be performed and include preliminary drawings and provisions that demonstrate the park's ability to connect to the upgraded system should they choose to in the future.

**Action Needed:**

Motion to transfer \$8,320 from funds available in the Sewer Assessment Fund into an account to be called "Bride Brook Site Alternatives Analysis Update" to cover engineering services to update the Bride Brook Sewer Pump Station site alternatives analysis to satisfy DEEP requirements to move forward in acquiring additional easement area to build a new Bride Brook Sewer Pump Station.

**Attachments:** Weston and Sampson Proposal to provide 'Engineering Services to update the Bride Brook Site Alternatives Analysis'.

**Prepared By:** Ben North, Chief Operating Officer

<p>W&amp;S Agenda Item No. <u>10</u> Date: 7/18/24</p>
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July 8, 2024

Ben North  
Municipal Utility Engineer  
Town of East Lyme Water & Sewer  
108 Pennsylvania Avenue  
Niantic, CT 06357

**Re: Engineering Services to update the Bride Brook Site Alternatives Analysis**

Dear Mr. North:

Weston & Sampson Engineers, Inc. (Weston & Sampson) is pleased to provide the Town of East Lyme with this proposal to provide consulting engineering services for the referenced project. Weston & Sampson previously prepared the document entitled "Site Alternatives Evaluation: Bride Brook Wastewater Pumping Station" dated February 28, 2021. The purpose of this proposal is to revise the referenced document as listed below.

**SCOPE OF SERVICES**

Weston & Sampson will perform the following services:

Revise the referenced technical memo to incorporate the following:

1. Escalate opinion of probable costs to 2025
2. Update figures to depict a proposed sewer service lateral that will be utilized by the State to serve Rocky Neck State Park.
3. Incorporate comments from the Town of East Lyme.

**BUDGET & PAYMENTS**

The above-described services will be provided by Weston & Sampson, billed on an hourly rate basis per the billing rate table below. Weston & Sampson estimates that the services described above may be reasonably completed within a budget of \$8,320 as outlined below based on the complexity of the project as currently envisioned. The estimate for Engineering Services is as follows:

Personnel Classification	Estimated Hours	Billing Rate	Estimated Fee
Senior Team Leader	16	\$300.00	\$4,800.00
Project Manager	16	\$220.00	\$3,520.00
<b>Budget Estimate:</b>			<b>\$8,320.00</b>

**TERMS AND CONDITIONS**

Weston & Sampson's services will be provided as described herein and in accordance with the Terms and Conditions listed in our latest on-call agreement with the Town of East Lyme dated August 25, 2017.

**SCHEDULE**

We anticipate that we will be able to begin work on this project immediately following written authorization to proceed. We will submit a draft revised memo within 60 days of authorization to proceed.

**ACCEPTANCE**

Should you find this scope of work and associated fee to be acceptable, please issue a purchase order or other similar instrument at your earliest convenience.

Thank you for inviting us to submit this proposal. We look forward to assisting you with this project. If you have any questions, please contact me at [TedeschiR@wseinc.com](mailto:TedeschiR@wseinc.com) or (860) 681-8422.

Very truly yours,

**WESTON & SAMPSON ENGINEERS, INC.**



Robert G. Tedeschi, PE  
Senior Team Leader

**Request for Water & Sewer Commission**

**TO: Water & Sewer Commission**

**FROM: Ben North, Chief Operating Officer**

**DATE: July 18, 2024**

**SUBJECT: Annual Update to East Lyme Water and Sewer Commission Agreement with Spinnaker Association**

**Summary of Agenda Item:**

Attached is the proposed updated agreement between East Lyme Water and Sewer Commission and Spinnaker Association for fiscal year 2025. The scope and language of the agreement is unchanged, but staff is proposing a 4% increase of the rates of the agreement based on published inflation data as reflected in the Consumer Price Index – Northeast Urban Rate.

**Action Needed:**

Motion to approve the proposed FY25 Spinnaker Agreement and rates as presented and authorize the Water and Sewer Chairman to sign the ‘Agreement Re Maintenance of Sewer Pump Station’ for FY25.

**Attachments:**

Agreement Re Maintenance of Sewer Pump Station and associated exhibits

**Prepared By: Ben North, Chief Operating Officer**

<p><b>W&amp;S Agenda Item No. <u>11</u> Date: 7/18/24</b></p>
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## **AGREEMENT RE MAINTENANCE OF SEWER PUMP STATION**

THIS AGREEMENT, made on this 23 day of July, 2024 by and between the EAST LYME WATER AND SEWER COMMISSION (the "Commission"), acting as the Town of East Lyme's duly designated Water Pollution Control Authority, and SPINNAKER ASSOCIATION, INC. (the "Association").

### WITNESSETH:

WHEREAS, the Association is the association of unit owners of a common interest community known as Spinnaker ("Common Interest Community"), created by a declaration of Spinnaker Homes, LLC, dated December 10, 2003 and recorded on December 19, 2003 in Volume 653 at Page 12 of the East Lyme Land Records ("Spinnaker Declaration");

WHEREAS, the common elements of the Common Interest Community includes a community sewerage system, which further includes a sewer pump station (the "Spinnaker Pump Station");

WHEREAS, the Association is responsible for the operation, maintenance, repair and replacement of the common elements of the Common Interest Community, including the Spinnaker Pump Station; and

WHEREAS, the Association has requested that the Commission operate and maintain the Spinnaker Pump Station, and the Commission is willing to perform such operation and maintenance services on the terms and conditions hereinafter set forth;

NOW, THEREFORE, in consideration of the mutual covenants contained herein, it is agreed:

1. The Commission will provide such services as may be necessary to operate, maintain and keep in good repair the Spinnaker Pump Station, including

pumping machinery and related structures and equipment, at reasonable efficiency and reliability consistent with the design capacity and capability of the installed machinery and equipment.

2. The services provided by the Commission shall be in accordance with generally accepted industry standards, and shall be performed in the same manner as the Commission maintains its own pump stations. The Commission will maintain records of its work in the same format and manner as it keeps records for its own pump stations.

3. The term of this agreement shall begin on August 1, 2024 and end at midnight on June 30, 2025.

4. On or before the fifteenth (15<sup>th</sup>) day of each month, the Commission will send a statement to the Association setting forth its charges for routine maintenance, non-routine maintenance, emergency services, materials and supplies and equipment and vehicles used in the operation, maintenance and repair of the Spinnaker Pump Station during the preceding month, and the Association shall pay said statement within thirty (30) days after the date thereof. Such charges shall be determined and calculated as follows:

A. Routine maintenance services are more particularly described in the "Preventative Maintenance Schedule" appended hereto as Attachment A. Such services may be performed between the hours of 7:00 a.m. and 3:30 p.m. three (3) times per week, generally occurring on but not limited to Mondays, Wednesdays and Fridays. Routine maintenance shall be charged at the fixed fee set forth in Section 1 of the attached Rate Schedule.

B. Non-routine maintenance shall be any maintenance services not described in Attachment A. By way of example and not by way of limitation, such services would include wet well cleaning, pump rebuilds, sewer line cleaning, and emergency generator repairs. The Commission will provide such services only upon the prior notice from the Commission and approval by the Association's designated representative. Non-routine maintenance shall be charged at the hourly rate set forth in Section 2 of the attached Rate Schedule.

C. Emergency services shall be any non-maintenance service rendered in response to an alarm received by the Commission or the East Lyme Emergency Dispatch Center. Emergency services may be rendered without prior approval of the Association. By way of example and not by way of limitation, such services would include alarm call-outs and status determinations, machinery malfunctions and sewerage overflows. Emergency services rendered during the normal weekday work hours between 7:00 a.m. to 3:30 p.m. shall be charged at the hourly rate set forth in Section 2 of the attached Rate Schedule. Emergency services rendered outside normal weekday working hours will be charged at the hourly rate set forth in Section 3 of the attached Rate Schedule. Charges for an emergency repair job which begins during normal weekday working hours and extends outside such hours will be pro-rated at the hourly rates set forth in Sections 2 and 3 of the attached Rate Schedule. Emergency call-outs after normal working hours or on weekends and holidays shall be billed for a minimum period of time of three (3) hours.

D. Materials and supplies incidental to routine maintenance, such as disposable gloves, absorbent pads and cleaners are included in the fixed fee for routine maintenance set forth in Section 1 of the attached Rate Schedule. The charge for all other materials, parts and supplies, including chemicals used in the maintenance or repair of the Spinnaker Pump Station shall be the Commission's cost for such materials, parts and supplies, plus fifteen (15%) percent.

E. Equipment and vehicles used by the Commission for emergency services and repairs and non-routine maintenance will be charged at the rate set forth in Section 4 of the attached Rate Schedule.

F. Outside contractors used for non-routine maintenance services or for emergency call-outs shall be billed to the Association at the Commission's actual cost for such services.

5. The Spinnaker Pump Station, machinery and related equipment shall remain part of the common elements of the Common Interest Community, and at all times shall be subject to the Spinnaker Declaration. Any warranties, guarantees and licenses related to such equipment and machinery shall remain with the Association and will not be transferred to the Commission. The Association shall be solely responsible for obtaining, renewing and maintaining in effect all permits, licenses and approvals necessary for the operation of the pump station and the payment of all fees and expenses related thereto. The Association shall be solely responsible for the provision of all utilities, including but not limited to electricity, telephone, alarm systems, heat and

fuel for emergency generators, and all fees and expenses related thereto. The Association shall be solely responsible for the provision of unobstructed access to the pump station on foot and by vehicle (including the removal of snow and ice when necessary), lawn and grounds and building maintenance, and all fees and expenses related thereto.

6. The Association shall designate in writing the person or persons authorized to deal with the Commission regarding the maintenance and operation of the pump station. If during the term of this Agreement, the Association changes the designated person or persons, then it shall give the Commission notice of the change in accordance with the provisions of Paragraph 12 of this Agreement. Except upon emergencies, said designated representatives shall deal with the Commission's Superintendent of Sewers or the Municipal Utility Engineer, and shall not deal with or issue instructions to the Commission's employees. The Association may notify the Commission of the need for emergency services by contacting the East Lyme Emergency Dispatch Center at (860) 739-3419.

7. This agreement constitutes the entire agreement between the parties relating to the operation and maintenance of the Spinnaker Pump Station. Any prior understanding or representation of any kind preceding the date of this agreement shall not be binding upon either party except to the extent incorporated in this agreement. Any modification of this agreement or additional obligation assumed by either party in connection with this agreement shall be binding only if in writing and signed by the parties hereto.

8. The Association shall indemnify and save harmless the Commission and the Town of East Lyme from and against any and all damages to property or injuries to

or death of any person or persons, including property and employees of the Commission and the Town, and shall defend, indemnify and save harmless the Commission and the Town from and against any and all claims, demands, suits, actions or proceedings of any kind or nature or by anyone whomsoever in any case resulting from or arising out of acts or omissions of the Association or its agents, employees or subcontractors. Notwithstanding the foregoing, the Association shall not be required to indemnify and save harmless the Commission or the Town of East Lyme from and against damages to property or injuries to persons arising out of the negligence or willful misconduct of the Commission or the Town or their employees or agents.

9. The Commission shall be responsible for the prompt repair of any physical damage to real or personal property in the Common Interest Community caused by the Commission, the Town of East Lyme, any subcontractor, and anyone directly or indirectly employed by either of them, including, but not limited to, damaged roadways, curbs, signs, lights, buildings, and motor vehicles.

10. The Association shall carry Comprehensive General Liability Insurance providing for coverage for all damages arising out of bodily injuries or death and Comprehensive Property Damage and Liability Insurance providing for coverage for all damages arising out of injury to or destruction of property, with limits of liability of at least 2,000,000 – General Aggregate/\$1,000,000 – Each Occurrence, and shall name the Town of East Lyme and the Water and Sewer Commission as additional named insureds on said policies and, upon request, provide certificates evidencing such insurance.

11. This Agreement is separate and distinct from any Declarations of Covenants and Restrictions and Agreements regarding Community Sewerage Systems

executed heretofore or hereafter by the Association or its predecessors or successors, and is not to be construed or interpreted as affecting in any way the Association's obligations under said documents. This Agreement is separate and distinct from any individual customer service agreements with residents or owners of units in the Association's community, and is not to be interpreted or construed as affecting in any way said customer service agreements or the sewer usage rates charged to said customers.

12. The waiver of any failure under this agreement shall not be construed as, or constitute a waiver of, any subsequent failure. No delay on the part of either party in exercising any right, power or privilege hereunder shall operate as a waiver thereof.

13. Any notice, request, instruction or other document to be given hereunder by any party hereto to any other party shall be in writing and shall be sufficiently given if delivered in person, sent by facsimile, or sent by registered or certified mail, postage prepaid, as follows:

If to the Association: Spinnaker Association, Inc.  
c/o Sound Real Estate Services, LLC  
PO Box 118  
New London, CT 06320  
Facsimile: (860) 333-6536

If to the Commission: East Lyme Water and Sewer Commission  
East Lyme Town Hall  
108 Pennsylvania Avenue  
P.O. Box 519  
Niantic, CT 06357  
Facsimile: (860) 739-6930

with a copy to: East Lyme First Selectman  
East Lyme Town Hall  
108 Pennsylvania Avenue  
P.O. Box 519  
Niantic, CT 06357  
Facsimile: (860) 739-6930

or at such other address for a party as shall be specified by like notice. Any notice which is delivered personally in the manner provided herein shall be deemed to have been duly given to the party to whom it is directed upon actual receipt by such party (or its agent for notices hereunder). Any notice which is addressed and mailed in the manner herein provided shall be conclusively presumed to have been duly given to the party to which it is addressed at the close of business, local time of the recipient, on the fifth day after the day it is so placed in the mail (excluding Sundays). A notice which is sent via facsimile in the manner provided herein shall be conclusively presumed to have been given to the party to which it is sent upon confirmation of receipt of such facsimile.

14. In the event that either party breaches any of the provisions of this agreement either party, after previous written notice of the breach and a reasonable opportunity for the other party to cure the breach, shall have the right to terminate this agreement and to bring such actions at law or in equity as may be necessary or desirable to protect and enforce the interests of said party. Any such action shall be brought in the Superior Court for the Judicial District of New London, and each party waives any jurisdictional, venue, convenient forum, removal right or other right to the contrary. Each party waives the right to a jury trial.

15. This agreement shall be governed by, construed and enforced in accordance with the laws of the State of Connecticut.

IN WITNESS WHEREOF, the parties have hereunto set their names and seals and caused this instrument to be executed by their proper officers, as of the day and year first above.

TOWN OF EAST LYME  
WATER AND SEWER COMMISSION

\_\_\_\_\_  
(witness)

By: \_\_\_\_\_

Its Chairman duly authorized

\_\_\_\_\_  
(witness)

SPINNAKER ASSOCIATION, INC.

\_\_\_\_\_  
(witness)

By: \_\_\_\_\_

Its \_\_\_\_\_ duly authorized

\_\_\_\_\_  
(witness)

## ATTACHMENT A

### PREVENTATIVE MAINTENANCE SCHEDULE

#### Spinnaker Sewer Pump Station

##### **Weekly**

Record elapsed time meter readings.

Check airflow indicator to ensure proper bubbler system airflow.

Monitor station during at least one pump down cycle to check for proper control operation along with leaks.

Check oil levels in seal and bearing chambers.

Check belts for wear and tension.

Check sump pump blower and dehumidifier for proper operation.

Verify back-up air pump works.

Switch to the backup air pump only when the lead air pump quits.

Check air release valves for proper operation. Grease, if necessary.

Record suction/discharge gauge readings for both pumps.

Exercise generator.

Perform manufacturer's recommended weekly procedures pursuant to the attached manuals.

##### **Odor Control (Warm Weather Months)**

Check operation of chemical feed pumps.

Check Concentration in wet well.

Replenish chemicals as required.

##### **Emergency Power System**

Exercise generator under load.

Check all fluids, battery connection and standby charger.

Check fuel levels.

Perform manufacturer's recommended preventive procedures and maintain service records.

Replace engine oil and coolant annually.

Replace starting battery every third year.

### **Monthly**

Exercise plug valves.

Make sure check valves open and close properly.

Lubricate air release valves and check for proper operation.

Re-tension and align belt drives if necessary (after initial run/tension intervals).

Perform simulated power outage and exercise under load.

### **Semi-Annually**

Adjust impeller to wear plate clearance (depending on application this may need to be done quarterly).

Clean air pump filter.

### **Annually**

Change oil in pump seal and bearing chamber or every 4000 hours, whichever occurs first.

Grease motor bearings, in accordance with motor manufacturer's recommended schedule.

Test alarm system for proper operation.

### **Controls**

1. With the exception of the air pumps, the controls do not require routine maintenance. Contacts and relays will be replaced only as needed.

**RATE SCHEDULE**  
(Effective August 1, 2024)

Section 1. – Routine Maintenance

Routine maintenance services rendered during normal weekday working hours (7:00 a.m. to 3:30 p.m.)	\$695.82 per month
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Section 2. – Non-routine Maintenance

Non-routine maintenance services rendered during normal weekday working hours (7:00 a.m. to 3:30 p.m.)	\$66.02 per hour, per person
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Section 3. – Emergency Services

a. During normal weekday working hours	\$99.05 per hour, per person
b. Outside normal weekday working hours, weekends and holidays, except Christmas (3-hour minimum)	\$99.05 per hour, per person
c. Christmas Day (3-hour minimum)	\$132.06 per hour, per person

Section 4. – Equipment / Vehicles

a. Pipe cleaning truck	\$76.65 per hour, per vehicle
b. Dump truck	\$71.50 per hour, per vehicle
c. Excavator	\$94.36 per hour, per vehicle
d. Pickup truck	\$30.89 per hour, per vehicle

<u>Section 5.</u> – Outside Contractors	Commission's actual cost plus 10%
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**East Lyme Water Department  
Monthly Report for June 2024**

**1. General Statistics**

<b>TASKS PERFORMED BY WATER DEPT</b>	<b>June 2024</b>	<b>TOTAL THIS YEAR</b>	<b>TOTAL LAST YEAR (Jan 1 to Dec 30)</b>
<b>Meters Installed (New Accounts)</b>	<b>0</b>	<b>5</b>	<b>22</b>
<b>New Meters In System</b>	<b>25</b>	<b>382</b>	<b>New / Total</b>
			<b>6816 / 6848 or 99.5%</b>
<b>New Service Connections Installed</b>	<b>0</b>	<b>2</b>	<b>18</b>
<b>Services and Mains Repaired<sup>(1)</sup></b>	<b>1 Mainbreak / 2 Service Leaks</b>	<b>26</b>	<b>33</b>
<b>Total Gallons Pumped <i>Millions of Gallons</i></b>	<b>65.523</b>	<b>319.404</b>	<b>676.364</b>

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

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

	<b>June 2024</b>	<b>June 2023</b>	<b>% Difference LY</b>
<b>Water Produced <i>Million Gallons Daily</i></b>	<b>2.114</b>	<b>2.132</b>	<b>-0.85%</b>

**MADD as a % of 3.16 MGD available water (24-hour pumping) = 66.89%**

**MADD as a % of 2.37 MGD available water (18-hour pumping) = 89.18%**

**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 4.18 inches for the month.
2. Water production has risen with the heat, and water production is on par with previous years.
3. The field crew has discovered many leaks this month, with 7 leaks reported and repaired by either the utility or private homeowners.
4. Staff is currently flushing the distribution system but is tapering off as summer demand increases. We flushed 50 hydrants in June and painted 6. We flushed 601 hydrants during FY24.

EAST LYME  
WATER & SEWER COMMISSION

JUL 23 2024

AGENDA# 13a

**EAST LYME WATER DEPARTMENT**

**Historic Water Production in Million Gallons per Month**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	% +/- (Previous Year)	Monthly Precip. (in.)
<b>Jan.</b>	53.405	55.502	55.699	48.433	44.334	44.334	45.053	63.884	49.219	48.554	-1.35%	8.63
<b>Feb.</b>	50.538	58.426	56.887	41.951	44.733	47.832	41.912	61.236	47.891	43.782	-8.58%	1.98
<b>Mar.</b>	55.848	56.130	55.300	44.903	54.467	50.150	48.343	65.938	58.247	50.871	-12.66%	10.34
<b>Apr.</b>	54.891	56.931	49.606	46.231	52.493	48.753	49.554	60.322	59.939	51.362	-14.31%	4.75
<b>May</b>	68.621	65.388	58.395	51.915	57.692	55.327	57.411	65.009	70.825	59.312	-16.26%	6.82
<b>Jun.</b>	64.086	74.172	64.325	57.332	58.021	64.665	57.685	68.306	66.084	65.523	-0.85%	4.18
<b>July</b>	80.638	81.529	67.948	67.364	69.703	64.939	62.206	79.552	64.318			
<b>Aug.</b>	71.557	73.078	62.844	61.898	65.912	66.044	63.933	75.649	58.913			
<b>Sept.</b>	62.752	56.264	48.592	52.642	58.151	56.757	55.281	56.869	54.729			
<b>Oct.</b>	56.829	53.767	45.152	48.004	51.836	48.088	53.507	54.484	48.969			
<b>Nov.</b>	56.798	51.876	39.400	51.065	45.917	40.639	52.801	54.519	44.729			
<b>Dec.</b>	59.049	53.697	45.664	40.675	48.171	40.399	56.781	53.467	46.355			
<b>Average</b>	61.251	61.397	54.151	51.034	54.286	52.327	53.706	63.270	55.852	53.234		36.70

**% +/-  
(Previous  
Year)**

0.24%

-11.80%

-5.76%

6.37%

-3.61%

2.63%

17.81%

-11.72%

**% +/-  
Running  
Annual  
Average**

-9.00%

**EAST LYME WATER DEPARTMENT**

**Historic Water Production in Million Gallons per Month**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	AVG. Previous Years	2024	% +/- (Previous Years)	Monthly Precip. (in.)
<b>Jan.</b>	53.405	55.502	55.699	48.433	44.334	44.334	45.053	63.884	49.219	51.096	48.554	-4.97%	8.63
<b>Feb.</b>	50.538	58.426	56.887	41.951	44.733	47.832	41.912	61.236	47.891	50.156	43.782	-12.71%	1.98
<b>Mar.</b>	55.848	56.130	55.300	44.903	54.467	50.150	48.343	65.938	58.247	54.370	50.871	-6.43%	10.34
<b>Apr.</b>	54.891	56.931	49.606	46.231	52.493	48.753	49.554	60.322	59.939	53.191	51.362	-3.44%	4.75
<b>May</b>	68.621	65.388	58.395	51.915	57.692	55.327	57.411	65.009	70.825	61.176	59.312	-3.05%	6.82
<b>Jun.</b>	64.086	74.172	64.325	57.332	58.021	64.665	57.685	68.306	66.084	63.853	65.523	2.62%	4.18
<b>July</b>	80.638	81.529	67.948	67.364	69.703	64.939	62.206	79.552	64.318	70.911			
<b>Aug.</b>	71.557	73.078	62.844	61.898	65.912	66.044	63.933	75.649	58.913	66.648			
<b>Sept.</b>	62.752	56.264	48.592	52.642	58.151	56.757	55.281	56.869	54.729	55.782			
<b>Oct.</b>	56.829	53.767	45.152	48.004	51.836	48.088	53.507	54.484	48.969	51.182			
<b>Nov.</b>	56.798	51.876	39.400	51.065	45.917	40.639	52.801	54.519	44.729	48.638			
<b>Dec.</b>	59.049	53.697	45.664	40.675	48.171	40.399	56.781	53.467	46.355	49.362			
<b>Total</b>	735.012	736.760	649.812	612.413	651.430	627.927	644.467	759.235	670.218	676.364	319.404		36.70

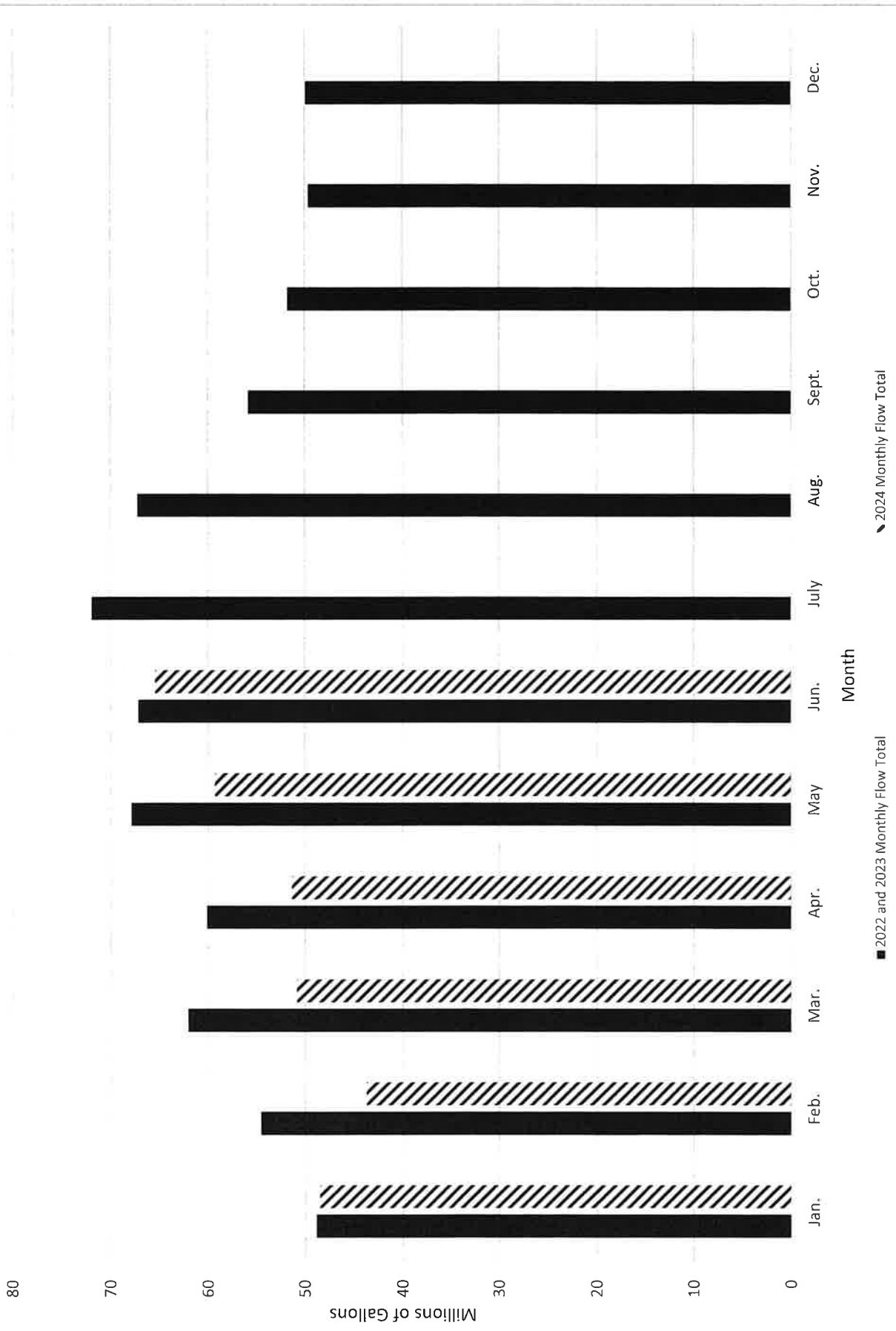
**% +/- (Previous Year)**

0.24%    -11.80%    -5.76%    6.37%    -3.61%    2.63%    17.81%    -11.72%

**% +/- Running Annual Average**

-4.66%

# East Lyme Water - Production by Month



**EAST LYME WATER DEPARTMENT  
Well Production Report - June 2024**

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)	Precip inches
	(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	0.510		0.187		0.207		0.535		0.209		0.173		0.361		0.743	0.930	2.183	0.001	0.000	2.184	
Date	"Alert" Trigger	12.0		4.0		15.0		20.0		6.0		18.0		22.0							
6/1/2024	0.472	14.4	0.221	21.0	0.215	42.9	0.563	36.1	0.191	8.40	0.000	35.2	0.393	31.5	0.778	0.998	2.054	0.000	0.000	2.054	0.00
6/2/2024	0.544	14.3	0.182	20.0	0.233	14.7	0.620	22.9	0.227	6.70	0.000	35.1	0.420	31.4	0.853	1.035	2.226	0.000	0.000	2.226	0.00
6/3/2024	0.633	14.2	0.248	21.0	0.240	14.3	0.614	22.6	0.237	6.60	0.000	35.3	0.420	31.4	0.854	1.101	2.391	0.000	0.000	2.391	0.00
6/4/2024	0.486	14.0	0.145	20.0	0.255	14.5	0.661	22.6	0.181	6.50	0.000	35.2	0.404	31.6	0.916	1.061	2.132	0.000	0.000	2.132	0.00
6/5/2024	0.505	14.1	0.176	21.0	0.259	14.4	0.680	23.0	0.208	6.50	0.000	35.2	0.420	31.4	0.939	1.115	2.248	0.000	0.000	2.248	0.00
6/6/2024	0.400	18.8	0.198	20.0	0.185	14.2	0.470	22.6	0.192	14.50	0.000	35.2	0.332	40.8	0.655	0.853	1.777	0.000	0.000	1.777	0.56
6/7/2024	0.492	14.1	0.178	35.0	0.184	42.9	0.479	36.2	0.215	6.50	0.000	35.2	0.410	31.3	0.663	0.841	1.958	0.000	0.000	1.958	0.03
6/8/2024	0.472	18.7	0.210	35.0	0.250	14.9	0.643	23.2	0.194	6.50	0.000	35.2	0.392	40.7	0.893	1.103	2.161	0.000	0.000	2.161	0.00
6/9/2024	0.542	14.0	0.252	35.0	0.212	42.9	0.586	36.3	0.193	14.40	0.000	35.2	0.420	31.3	0.798	1.050	2.204	0.000	0.000	2.204	0.00
6/10/2024	0.493	14.0	0.185	19.0	0.246	14.5	0.616	23.0	0.222	6.50	0.000	35.3	0.410	40.5	0.862	1.047	2.172	0.000	0.000	2.172	0.07
6/11/2024	0.465	13.7	0.193	21.0	0.158	14.4	0.415	22.6	0.202	6.50	0.160	13.4	0.386	30.9	0.573	0.766	1.979	0.000	0.000	1.979	0.00
6/12/2024	0.563	13.6	0.193	21.0	0.230	14.5	0.599	23.1	0.200	6.50	0.219	14.1	0.440	31.0	0.829	1.021	2.443	0.000	0.000	2.443	0.00
6/13/2024	0.530	13.2	0.224	21.0	0.242	42.3	0.637	35.5	0.186	6.50	0.161	13.9	0.406	31.0	0.879	1.103	2.386	0.000	0.000	2.386	0.00
6/14/2024	0.426	13.2	0.169	20.0	0.200	14.6	0.522	22.8	0.174	14.30	0.223	13.0	0.327	31.0	0.722	0.891	2.041	0.000	0.000	2.041	0.00
6/15/2024	0.438	18.3	0.185	20.0	0.136	14.4	0.364	35.2	0.183	6.40	0.226	13.3	0.336	40.4	0.500	0.685	1.868	0.000	0.000	1.868	0.29
6/16/2024	0.505	13.4	0.173	20.0	0.219	14.8	0.561	23.6	0.188	6.30	0.241	11.8	0.388	31.2	0.780	0.954	2.276	0.000	0.000	2.276	0.00
6/17/2024	0.499	13.2	0.233	20.0	0.198	42.5	0.516	35.8	0.222	14.20	0.264	12.5	0.383	31.3	0.714	0.947	2.315	0.000	0.000	2.315	0.00
6/18/2024	0.653	13.1	0.229	34.0	0.057	14.5	0.141	23.0	0.248	6.30	0.335	12.6	0.440	30.9	0.198	0.426	2.103	0.000	0.000	2.103	0.00
6/19/2024	0.758	13.3	0.108	18.0	0.234	43.4	0.616	37.2	0.311	6.00	0.394	11.5	0.440	30.9	0.850	0.958	2.861	0.031	0.000	2.892	0.00
6/20/2024	0.596	12.6	0.201	20.0	0.208	41.9	0.478	35.1	0.271	6.10	0.390	11.8	0.309	33.8	0.686	0.887	2.454	0.000	0.000	2.454	0.00
6/21/2024	0.608	12.5	0.191	20.0	0.244	14.1	0.541	22.7	0.204	6.10	0.334	11.1	0.368	33.6	0.785	0.976	2.490	0.000	0.000	2.490	0.00
6/22/2024	0.359	12.6	0.163	21.0	0.176	14.6	0.459	23.3	0.216	6.10	0.235	12.1	0.220	33.2	0.635	0.798	1.828	0.000	0.000	1.828	0.16
6/23/2024	0.468	13.0	0.180	20.0	0.200	14.3	0.519	23.3	0.209	13.90	0.250	11.7	0.289	32.9	0.719	0.899	2.115	0.000	0.000	2.115	0.65
6/24/2024	0.526	13.1	0.120	20.0	0.245	14.5	0.641	23.2	0.145	6.10	0.247	32.4	0.323	33.0	0.886	1.006	2.247	0.000	0.000	2.247	0.12
6/25/2024	0.500	17.7	0.175	21.0	0.162	13.7	0.421	22.5	0.187	6.00	0.282	32.9	0.307	40.2	0.583	0.758	2.034	0.000	0.000	2.034	0.00
6/26/2024	0.494	12.8	0.222	20.0	0.210	14.3	0.542	23.1	0.238	6.00	0.255	11.6	0.303	32.9	0.752	0.974	2.264	0.000	0.000	2.264	0.00
6/27/2024	0.466	17.8	0.143	21.0	0.204	42.8	0.531	36.2	0.262	6.10	0.221	12.1	0.286	40.3	0.735	0.878	2.113	0.000	0.000	2.113	1.90
6/28/2024	0.520	17.8	0.209	20.0	0.199	14.4	0.522	23.3	0.191	6.10	0.279	22.9	0.319	40.2	0.721	0.930	2.239	0.000	0.000	2.239	0.00
6/29/2024	0.467	13.0	0.170	20.0	0.196	42.8	0.507	23.8	0.179	6.00	0.229	12.3	0.286	32.9	0.703	0.873	2.034	0.000	0.000	2.034	0.00
6/30/2024	0.431	13.1	0.142	20.0	0.227	42.8	0.595	36.2	0.192	14.00	0.230	11.9	0.265	33.1	0.822	0.964	2.082	0.000	0.000	2.082	0.40
Average	0.510	14.4	0.187	22.2	0.207	23.9	0.535	27.3	0.209	7.95	0.173	21.7	0.361	33.9	0.743	0.930	2.183	0.001	0.000	2.184	0.14
Minimum	0.359	12.5	0.108	18.0	0.057	13.7	0.141	22.5	0.145	6.00	0.000	11.1	0.220	30.9	0.198	0.426	1.777	0.000	0.000	1.777	0.00
Maximum	0.758	18.8	0.252	35.0	0.259	43.4	0.680	37.2	0.311	14.50	0.394	35.3	0.440	40.8	0.939	1.115	2.861	0.031	0.000	2.892	1.90
Total	15.311		5.615		6.224		16.058		6.268		5.175		10.842		22.282		65.492	0.031	0.000	65.523	4.18

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	0.05	Total Monthly Demand
% of Total Sent to NL (Wells)	0.00	65.523
Running Total (water received 2023)	0.279	
Goal	14.850	
% of Goal	1.88	
Running Total (water sent to NL 2023)	0.000	
Goal	25.074	
% of Goal	0.00	

July, 2024

East Lyme Sewer Maintenance Report for June 2024

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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. General equipment maintenance
7. Monitor Odor Control System 31 Arbor Xing for H2s
8. Monitor Oder Control System. 170 Giants Neck Rd for H2S
9. Monitor H2S (Point O Woods)
10. O/M Maintenance
11. Hydro Jetting Crescent Beach Area

EAST LYME  
WATER & SEWER COMMISSION

JUL 23 2024

AGENDA# 13b



**EAST LYME SEWER FLOWS - HISTORY**

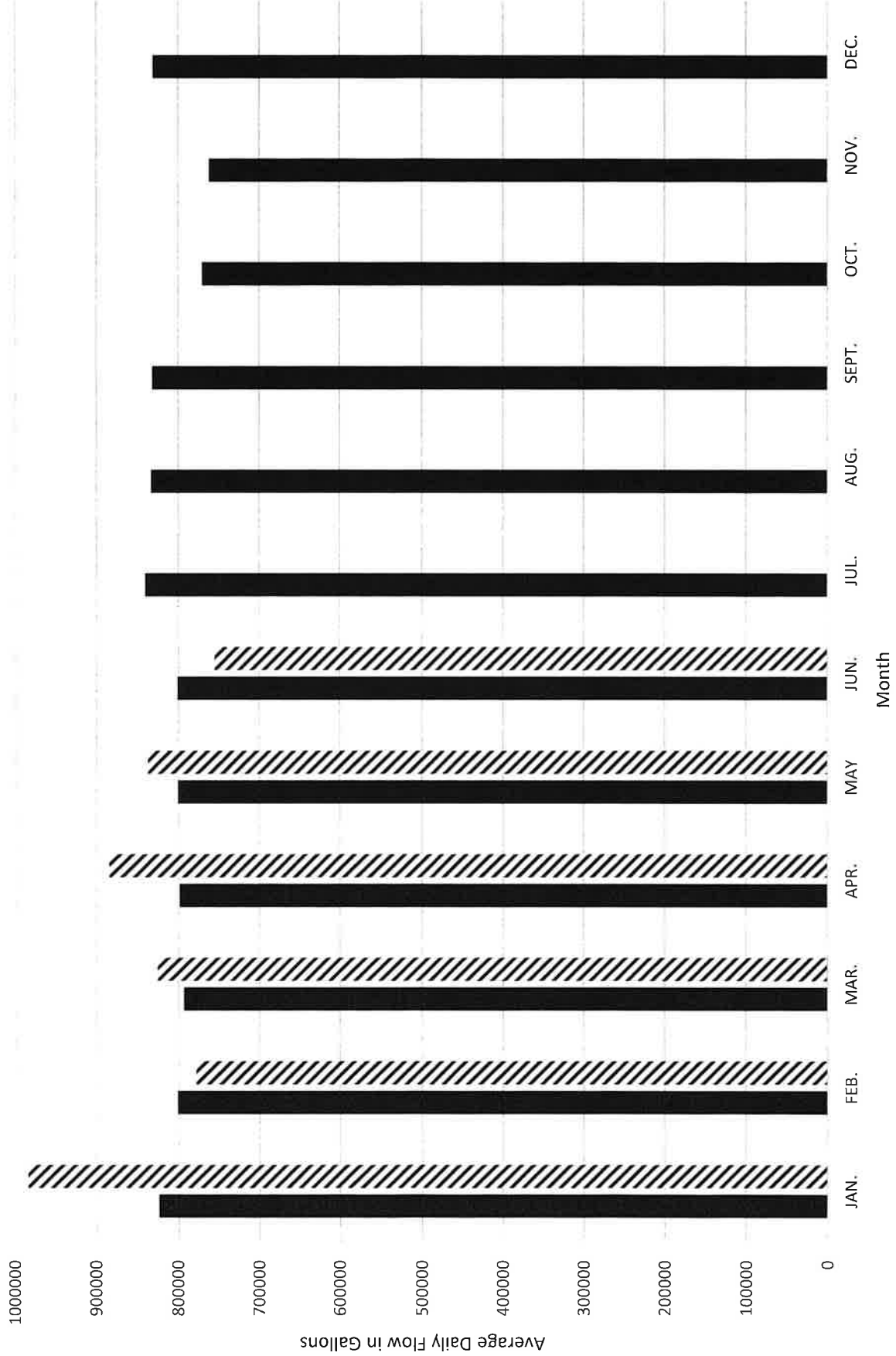
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	% +/- Prev. Yr.	Precip. 2024 (In.)
<b>JAN.</b>	787,646	747,284	784,837	781,519	1,090,311	849,497	938,302	942,646	1,029,157	1,177,819	14.45%	8.63
<b>FEB.</b>	832,681	809,701	765,648	865,263	842,611	859,175	911,422	988,646	997,413	912,457	-8.52%	1.98
<b>MAR.</b>	1,017,280	790,851	777,452	927,771	893,805	832,803	886,441	948,873	984,116	1,048,941	6.59%	10.34
<b>APR.</b>	938,861	796,611	897,161	778,780	918,456	885,983	962,591	965,456	1,015,438	1,066,788	5.06%	4.75
<b>MAY</b>	913,816	777,446	872,268	746,049	947,042	900,485	951,501	922,857	1,061,763	989,756	-6.78%	6.82
<b>JUN.</b>	880,190	815,281	849,504	906,535	875,000	882,463	976,981	989,299	984,241	966,701	-1.78%	4.18
<b>JUL.</b>	1,048,427	879,952	883,851	1,026,307	977,552	853,930	1,047,771	995,433	1,086,674			
<b>AUG.</b>	977,543	868,636	873,017	905,718	932,181	911,419	978,158	1,000,871	1,063,381			
<b>SEPT.</b>	878,563	762,544	769,493	875,918	833,237	823,590	1,051,008	921,227	1,020,678			
<b>OCT.</b>	861,521	738,247	752,273	903,915	806,576	812,506	917,384	905,482	1,053,620			
<b>NOV.</b>	803,842	709,481	732,848	871,111	815,129	786,482	937,414	864,223	954,365			
<b>DEC.</b>	788,121	728,649	728,437	894,050	927,335	896,694	895,121	950,524	1,057,605			
<b>RUNNING AVERAGE</b>	894,041	785,390	807,232	873,578	904,936	857,919	954,508	949,628	1,025,704		1.50%	6.12
												<b>Precip. Total 36.70</b>

**EAST LYME SEWER FLOWS - HISTORY**

	2015	2016	2017	2018	2019	2020	2021	2022	2023	AVG. Prev. Years		% +/- AVG. Prev. Years	Precip. 2023 (in.)
<b>JAN.</b>	787,646	747,284	784,837	781,519	1,090,311	849,497	938,302	942,646	1,029,157	865,255	1,177,819	36.1%	8.63
<b>FEB.</b>	832,681	809,701	765,648	865,263	842,611	859,175	911,422	988,646	997,413	859,393	912,457	6.2%	1.98
<b>MAR.</b>	1,017,280	790,851	777,452	927,771	893,805	832,803	886,441	948,873	984,116	884,410	1,048,941	18.6%	10.34
<b>APR.</b>	938,861	796,611	897,161	778,780	918,456	885,983	962,591	965,456	1,015,438	892,987	1,066,788	19.5%	4.75
<b>MAY.</b>	913,816	777,446	872,268	746,049	947,042	900,485	951,501	922,857	1,061,763	878,933	989,756	12.6%	6.82
<b>JUN.</b>	880,190	815,281	849,504	906,535	875,000	882,463	976,981	989,299	984,241	896,907	966,607	7.8%	4.18
<b>JUL.</b>	1,048,427	879,952	883,851	1,026,307	977,552	853,930	1,047,771	995,433	1,086,674	964,153			
<b>AUG.</b>	977,543	868,636	873,017	905,718	932,181	911,419	978,158	1,000,871	1,063,381	930,943			
<b>SEPT.</b>	878,563	762,544	769,493	875,918	833,237	823,590	1,051,008	921,227	1,020,678	864,448			
<b>OCT.</b>	861,521	738,247	752,273	903,915	806,576	812,506	917,384	905,482	1,053,620	837,238			
<b>NOV.</b>	803,842	709,481	732,848	871,111	815,129	786,482	937,414	864,223	954,365	815,066			
<b>DEC.</b>	788,121	728,649	728,437	894,050	927,335	896,694	895,121	950,524	1,057,605	851,116			
<b>AVG.</b>	894,041	785,390	807,232	873,578	904,936	857,919	954,508	949,628	1,025,704	878,404	1,027,061	16.8%	6.12

**Precip. Total 36.70**

East Lyme Sewer Average Daily Flow Last Year vs 2 Year Average



■ 2022 and 2023 Average Daily Flow    ▨ 2024 Average Daily Flow

East Lyme Sewer Department

Monthly Average Day Wastewater Flows (MGD)

July 23 2024

Sewer Flows for the Month of June

Year	Month	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)		
		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			
2024	January	Average	1.178	1.748	0.977	0.120	0.013	0.000	0.020	0.040	0.193	0.285	60%	0.985	0.037	4%	
	February		0.912	1.076	0.619	0.080	0.007	0.000	0.007	0.040	0.133	0.345	72%	0.779	0.243	24%	
	March		1.049	1.430	0.844	0.157	0.009	0.000	0.017	0.040	0.223	0.255	53%	0.826	0.196	19%	
	April		1.067	1.544	0.925	0.110	0.015	0.000	0.017	0.040	0.182	0.297	62%	0.885	0.137	13%	
	May		0.990	1.285	0.565	0.073	0.015	0.000	0.024	0.040	0.152	0.327	68%	0.838	0.184	18%	
	June		0.967	1.145	0.571	0.137	0.006	0.000	0.028	0.040	0.211	0.267	56%	0.756	0.266	26%	
	July																
	August																
	September																
	October																
	November																
	December																
	Annual Avg.		1.027	1.371	0.750	0.113	0.011	0.000	0.019	0.040	0.182	0.296	62%	0.845	0.177	17%	
	(Jan - Dec)																
												Rolling 2 Year Average		0.816	0.206	20%	

All figures reported in Million Gallons Daily (MGD)

\*New Main Flow Meter installed - 2/24

\*\*Data during bypass was estimated using Waterford PS Data