

**TOWN OF JAMESTOWN
TOWN COUNCIL MEETING
for
TOWN, WATER AND SEWER MATTERS**

February 23, 2022

A regular meeting of the Jamestown Town Council sitting as the Board of Water and Sewer Commissioners was held on February 23, 2022. This meeting was held pursuant to Executive Order No. 22-01, executed by Governor Daniel J. McKee and was teleconferenced via Zoom.

The meeting was called to order via Zoom at 6:31 PM by Commission President Nancy A. Beye. The following members were present:

Mary E. Meagher, Commission Vice-President
Erik G. Brine
Michael G. White
Randall White

Also, present were:

Jamie A. Hainsworth, Town Administrator
Roberta J. Fagan, Town Clerk
Christina D. Collins, Finance Director
Michael Gray PE, Public Works Director
Peter D. Ruggiero Esq., Town Solicitor
Denise Jennings, Water and Sewer Clerk

AWARDS, PRESENTATIONS AND ACKNOWLEDGMENTS

(None)

READING AND APPROVAL OF MINUTES

1) December 20, 2021 (regular meeting)

Motion was made by Commissioner Brine, seconded by Commissioner Randall White to accept the December 20, 2021 regular meeting minutes. Vote: President Beye, Aye; Commission Vice-President Meagher, Aye; Commissioner Michael White, Aye; Commissioner Randall White, Aye

OPEN FORUM

Commission President Beye noted that this open forum would be for water and sewer matters only.

1) Scheduled requests to address: (None)

2) Non-scheduled request to address: (None)

REPORT OF TOWN OFFICIALS

1) **Pumping Report:**

The Public Works Director reported the following:

- JR-1 well remains in service.
- Pumping was down slightly for the month of January, compared to December.
- Rainfall was up for the month of January, compared to December.
- North Reservoir is @ capacity, usable storage-60MG.
- South Pond is @ capacity, usable storage- 6MG

2) **Town project reports:** *(See attached Project Update Report dated February 2022)*

Treatment Plant-

The Public Works Director reported that at end of December, Water Department Staff started experiencing some operational failure of the membrane filters at the treatment plant. As previously reported, we are approaching the end of the useful life of the membranes and we will be replacing them this year. The order for the new membranes was placed at the end of November, although the lead time for delivery may be greater than 40 weeks.

The Public Works Director briefly described the steps of the membrane filtration cleaning process. He stated that Water staff is currently managing this process and if we are still at this point during peak demand, we may need to implement measures to obtain water from the Town of North Kingstown.

Commissioner Randall White asked for clarification regarding the cleaning process. The Public Works Director stated that during the cleaning process the membranes are taken offline and the treatment plant is not producing water.

Transfer pumping/Reservoir-

The Public Works Director reported that the application for the RIDEM Phragmite Removal Project at South Pond has been submitted and stated that it was presented as a “pilot project”. He expects to receive funding this summer and at that time the work will begin on the project.

Distribution system-

The Public Works Director reported the following:

- Surveyors will be out when the warmer weather begins, to survey Narragansett Avenue and North Road for the water main replacement project.
- The US EPA-Lead and Copper Rule long term revisions were published in January. One of the key provisions in the new rules is that all community water systems are to develop a lead service line inventory by January 2024.
- In January 2022 the RIDOH requested the inventory for Jamestown based upon available information. We completed a survey of our records and it appears as we may have up to 88 services that may contain lead connections.
- We have a flyer entitled “Lead in Drinking Water” that we distribute to customers to educate them on the importance of this matter.
- Water staff has not performed a household inventory of each individual line, but we may try to do in the future.

It was the consensus of the Commission, to accept the Public Works Director’s report, as submitted.

LETTERS AND COMMUNICATIONS

(None)

UNFINISHED BUSINESS

(None)

NEW BUSINESS

- 1) Finance Director's Report: Comparison of the Water Budget to Actuals as of January 31, 2022
- 2) Finance Director's Report: Comparison of the Sewer Budget to Actuals as of January 31, 2022

Administrator Hainsworth stated that the Finance Director is available, if the Commission has any questions pertaining to the Water and Sewer Budget to Actuals.

ADJOURNMENT

Motion was made by Commissioner Meagher, seconded by Commissioner Michael White to adjourn the meeting of the Jamestown Town Council sitting as the Board of Water and Sewer Commissioners at 6:47 PM. Vote: President Beye, Aye; Commission Vice-President Meagher, Aye; Commissioner Brine, Aye; Commissioner Michael White, Aye; Commissioner Randall White, Aye

Attest:

Denise Jennings
Water and Sewer Clerk

Project Update February 2022

WELLS

JR-1, JR-3

- JR-1 is in service.

TREATMENT PLANT

- At the end of December staff at the water department started experiencing operational failure of our membrane filters at the treatment plant. As I have reported we were approaching the end of the useful life for our membranes and that we would be replacing them this year. An order has been placed but it will take up to 40 weeks for delivery.

Staff has traced the problem to microbial fouling caused by copepod colonies, which are microorganisms in the raw water from the reservoir. These microorganisms are removed by the membrane filters but they cause a low permeability biofilm on the membrane surface causing our water production to fall off measurably. The staff have been working with engineers who manufacture and operate membrane filters to develop procedures to restore our filter efficiencies. The water staff are working hard at determining solutions to the problem and restoring our treatment production as we move into our peak demand season. The staff are now having to take filters off-line more frequently to conduct clean in place procedures. What has yet to be determined is if the poor filtering efficiencies are reversible or if it is just due to the age of our membranes. We may be just managing the problem over the next several months as we wait for delivery of our new membrane filters. In 14 years of operation we have never experienced this problem at our treatment plant.

TRANSFER PUMPING/RESERVOIR

- Jean Lambert submitted the RIDEM grant application for the Phragmite Removal Project at South Pond Reservoir. We reduced the project scope considerably, submitting it as “pilot project” with the purpose of determining the quantity of phragmite material that will be generating during excavation for disposal at RI Resource Recovery and the effectiveness of this strategy. It appears that we may be funded for this project which would be conducted in late summer.

DISTRIBUTION SYSTEM

South Pond @ 6 MG

Usable Storage, 6 Million Gallons

North Pond @ 60 MG

Usable Storage 60 Million Gallons

- Surveyors will be out once the weather breaks to survey the existing conditions and Right-of-Way of Narragansett Avenue and North Road for the watermain replacement project.
- The US EPA - Lead and Copper Rule Long Term Revisions were published on January 15, 2021. One of the key provisions in the new rule is a requirement that all community water systems develop a lead service line inventory by January of 2024. In January 2022 the RIDOH requested the inventory for Jamestown Water based upon available information. We completed a survey of our records and it appears there may be up to 88 services in Jamestown that contain lead connections. Our staff have not performed a household inventory of each individual service line.

In Jamestown lead connections exist on older steel water services to the cast iron watermain. Over the years many households have upgraded their services to new copper piping between the main and the home. Homeowners are responsible for hiring a contractor to install the new service between the property line and the house. The water department installs the new service between the existing watermain and the property line at no cost.

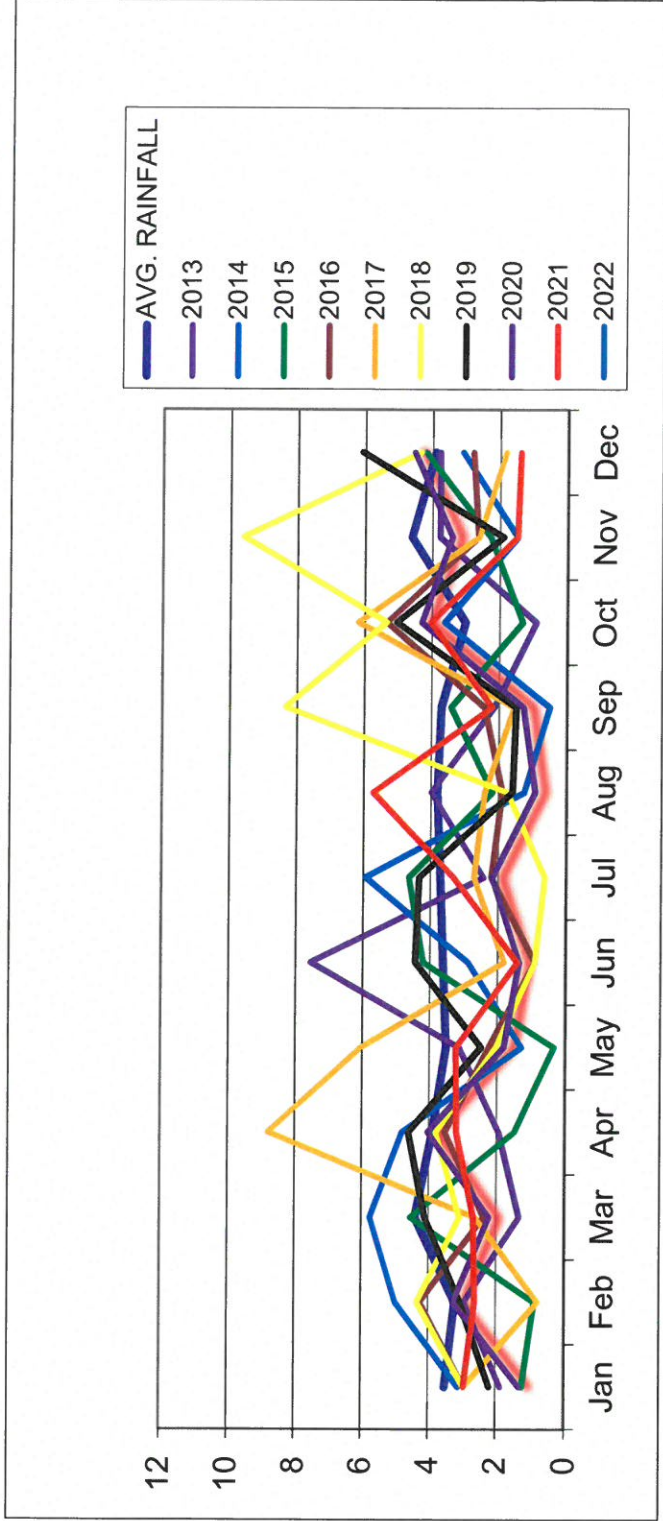
We will develop a program to conduct inspections of homes to update the inventory of both lead services and backflow devices. We will also educate our customers on the importance of eliminating the old services to their home.

WASTEWATER TREATMENT PLANT

- The monthly average daily flow at the treatment plant for January was 0.31 million gallons per day. The monthly average allowed by our discharge permit is 0.73 million gallons per day. The peak daily flow was 0.53 million gallons.

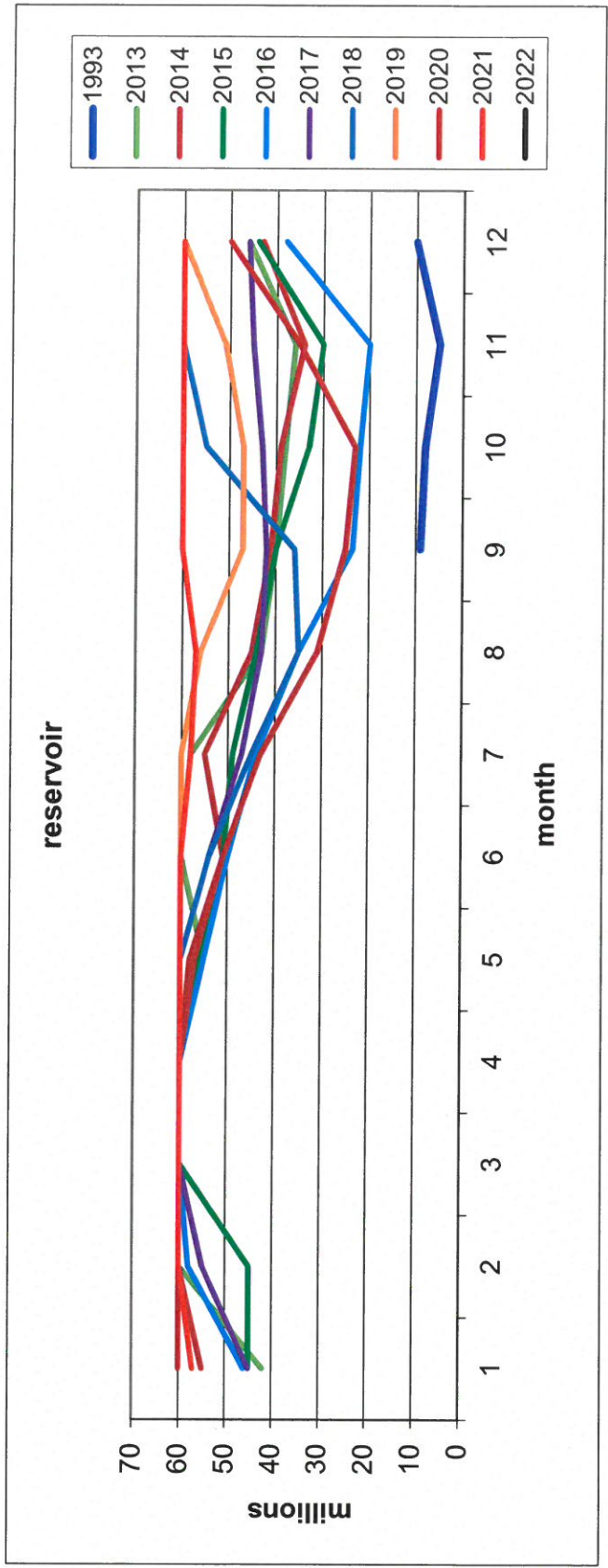
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Jan	3.5	1.85	3.1	2.94	2.94	2.94	2.19	1.3	2.94	2.04
Feb	3.2	2.94	4.98	4.25	0.76	4.33	3.06	3.26	2.62	
Mar	4.4	1.32	5.74	2.36	2.62	3.07	4.11	2.21	2.66	
Apr	3.9	1.92	4.8	3.53	8.8	3.79	4.61	4.03	3.18	
May	3.5	3.11	1.27	2.24	6.03	2.03	2.46	1.79	3.2	
Jun	3.6	7.55	4.2	0.89	1.79	0.89	4.44	1.36	1.4	
Jul	3.7	2.42	4.63	2.19	2.7	0.61	4.33	2.16	3.3	
Aug	3.8	3.98	2.17	1.88	2.4	1.73	1.58	0.91	5.71	
Sep	3.7	2.13	3.41	2.42	1.54	8.35	1.49	1.27	2.19	
Oct	3	0.9	1.31	5.33	6.18	5.34	5.04	4.29	4.03	
Nov	4.6	3.76	2.27	2.63	2.61	9.61	1.89	3.39	1.47	
Dec	3.9	3.76	4.2	2.79	1.81	4.33	6.09	4.53	1.38	
Total	44.8	35.64	38.59	33.45	40.18	47.02	41.29	30.5	34.08	2.04

RAINFALL



RESERVOIR LEVEL

	1993	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Jan		60	42	55	45	46	45	60	60	60	57	60
Feb		60	60	60	45	58	55	60	60	60	60	60
Mar		58	60	60	60	60	60	60	60	60	60	60
Apr		60	60	60	60	60	60	60	60	60	60	60
May		60	55	58	56	55	60	60	60	57	60	60
Jun		54	60	51	51	50	54	54	60	51	60	60
Jul		49	58	55	49	44	47	45	60	43	58	60
Aug		43	43	45	44	35	43	35	56	31	57	60
Sep	9	40	40	41	40	23.5	42	36	47	25	60	60
Oct	8	38	38	39	33	22	43	55	47	23	60	60
Nov	5	35	36	34	30	20	45	60	51	35	60	60
Dec	10	42	46	43	44	38	46	60	60	50	60	60





TOWN OF JAMESTOWN WWTF
MONTHLY REPORT
January 2022

Douglas Ouellette, Superintendent

Parameters

	<u>Monthly Avg.</u>	<u>Permit Limit</u>	<u>Notes</u>
Flow	.3058 MGD	.73 MGD	
Daily Max	.5270 MGD		
BOD Removal	98.5%	85%	% Removed
TSS Removal	95.7%	85%	% Removed
Fecal Coliform	1.99	No limit, report only	
Enterococci	4.47	(<35 cfu/100ml Monthly) (<276 cfu/100ml Daily)	

Environmental Compliance (Violations)

There is one violation to report for the month of January. This violation was for exceeding the daily maximum for enterococci of 276 cfu/100ml. We believe this violation to have caused by contamination at the lab given the fact that the tests that were conducted before and after were both <1, and there were no operational issues at the facility on the testing day in question.

Complaints

There was one complaint received for the month of January. The complaint was for a slow running sewer on Clarke St, Staff jetted the line and that corrected the problem.

Alarms

There were no alarms to report for the month of January.

Septage

The facility received no septage for the month.

Sludge Production

The facility processed 52,500 gallons of sludge through Wastewater Services Incorporated.

Maintenance Management

The Crew completed 69 work orders for the month of January.

Chemical Use

The facility used 370 gallons of Sodium hypochlorite and 0 pounds of lime for process control.

Collection System

31 pump station inspections were completed. 12 Gen Set inspections were performed. All stations are operating as designed.

Energy Use

Energy use at the plant for the month was: 196 KWH

Precipitation

Precipitation measured in at 4.78"

Graphs

