

Feb. 16, 2025

## Utility Department Monthly Operating Report Sewer Department

### January 2025 Effluent Monitoring Data

During the operating period of January 2025 there were no exceedances. See performance table below for further details of the regulatory monitoring data, for the month of January 2025.

See updated Flow, TSS and BOD Trend Charts at the end of this report.

### WWTP Monthly Performance Table

Parameters	Jan	Dec	Nov.	YTD Low	YTD Hi	YTD	2024	DEP Limit	YTD Exceed- ances
Flow GPD Avg	5977	21650	4201	5977	5977	<b>5977</b>	18995	<b>63,000</b>	0
Precip inches	1.20	6.04	2.06	1.20	1.20	1.20	3.50	n/a	0
TSS lbs/min	1	1	0.3	1	1	<b>1</b>	1.41	<b>&lt;76</b>	0
TSS lbs max	1	8	0.8	1	1	<b>1</b>	3.56	<b>report</b>	0
TSS mg/l ave	11	13	20	11	11	<b>11</b>	16.0	<b>&lt;145</b>	0
TSS mg/l max	12	18	27	12	12	<b>12</b>	24.0	<b>report</b>	0
TSS % removal	99.7	97.8	93	99.7	99.7	<b>99.7</b>	93.8	<b>&gt;50</b>	0
BOD lbs/min	4	4	2.7	4	4	<b>4</b>	9.5	<b>&lt;107</b>	0
BOD lbs max	6	61	5.4	6	6	<b>6</b>	43.6	<b>report</b>	0
BOD mg/l ave	94	92	142	94	94	<b>94</b>	<b>164.1</b>	<b>&lt;203</b>	0
BOD mg/l max	121	125	185	121	121	<b>121</b>	232.9	<b>report</b>	0
BOD % removal	68.5	68.2	51	68.5	68.5	<b>68.5</b>	43.5	<b>&gt;30</b>	0
pH low	6.7	6.7	6.8	6.7	6.7	<b>6.7</b>	6.7	<b>&gt;6.0</b>	0
pH high	7.0	6.9	6.9	7.0	7.0	<b>7.0</b>	6.9	<b>&lt;9.0</b>	0
St solids ml/l av	0.1	0.1	0.1	0.1	0.1	<b>0.1</b>	0.1	<b>report</b>	0
TRC mg/l max	0.02	0.02	0.02	0.02	0.02	<b>0.02</b>	0.03	<b>&lt;0.3</b>	0
Fecal cfu ave	<4	<4	<4	<4	<4	<b>&lt;4</b>	<4	<b>&lt;14</b>	0
Fecal cfu max	<4	<4	<4	<4	<4	<b>&lt;4</b>	<4	<b>&lt;31</b>	0
Entero cfu ave	n/a	n/a	n/a	n/a	n/a	<b>n/a</b>	<5	<b>&lt;8</b>	0
Entero cfu max	n/a	n/a	n/a	n/a	n/a	<b>n/a</b>	211	<b>&lt;54</b>	0
Hg ng/l ave	n/a	3.5	n/a	n/a	n/a	<b>n/a</b>	3.5	<b>33.4</b>	0
Hg ng/l max	n/a	3.5	n/a	n/a	n/a	<b>n/a</b>	3.5	<b>50.1</b>	0

1. In December 2024 we experienced the lowest BOD Concentrations for 2024 and the highest BOD percent removal for 2024.
2. Jan 2025 we experienced a 121 BOD avg mgl and a 68.5 percent BOD removal.
3. The flow average for November of 4201 gpd is unrealistically low and probably not accurate.
4. PLC was replaced and daily readings restored on 1-7-25. Pricing is being obtained to replace or fix the flow recorder.

5. Moore's Septage pumped first 2 tanks on each train Feb 14, 2024, Mar. 27th, 2024, all tanks on June 28, 2024 and first two tanks on each train on Oct. 25, 2024.
6. We have scheduled the 3 pump outs for 2025 as recommended in the recently completed Crowley Loading Study for the village. April 4, June 27 and Oct. 3.
7. Draft Permit received from EPA on 10-24-24. Jim Crowley has submitted comments to EPA and MDEP regarding the draft permit. These are all minor in nature spelling etc and factual corrections. There is also a public education required of primary waivers.
8. The required certification complying with the Maine Coastal Program has been processed.
9. Work is in progress on upgrading the Wet Weather Plan and Operations & Maintenance Plans as required by the new EPA Permit.
10. There was a single day flow recorded at 440,660 gallons on 6-29-24 when we received 1.07 inches of rain in very short period, resulting in a June 2024 daily average of 40,632 gallons with a 63,000 gpd permit limit.
11. I am working with Dirigo Engineering to schedule Cctv work under the FSP and CAP Program.
12. RCAP is scheduled to continue the rate discussion for billing alternatives.

## **Drinking Water Department**

### January 2025 Production and Water Quality.

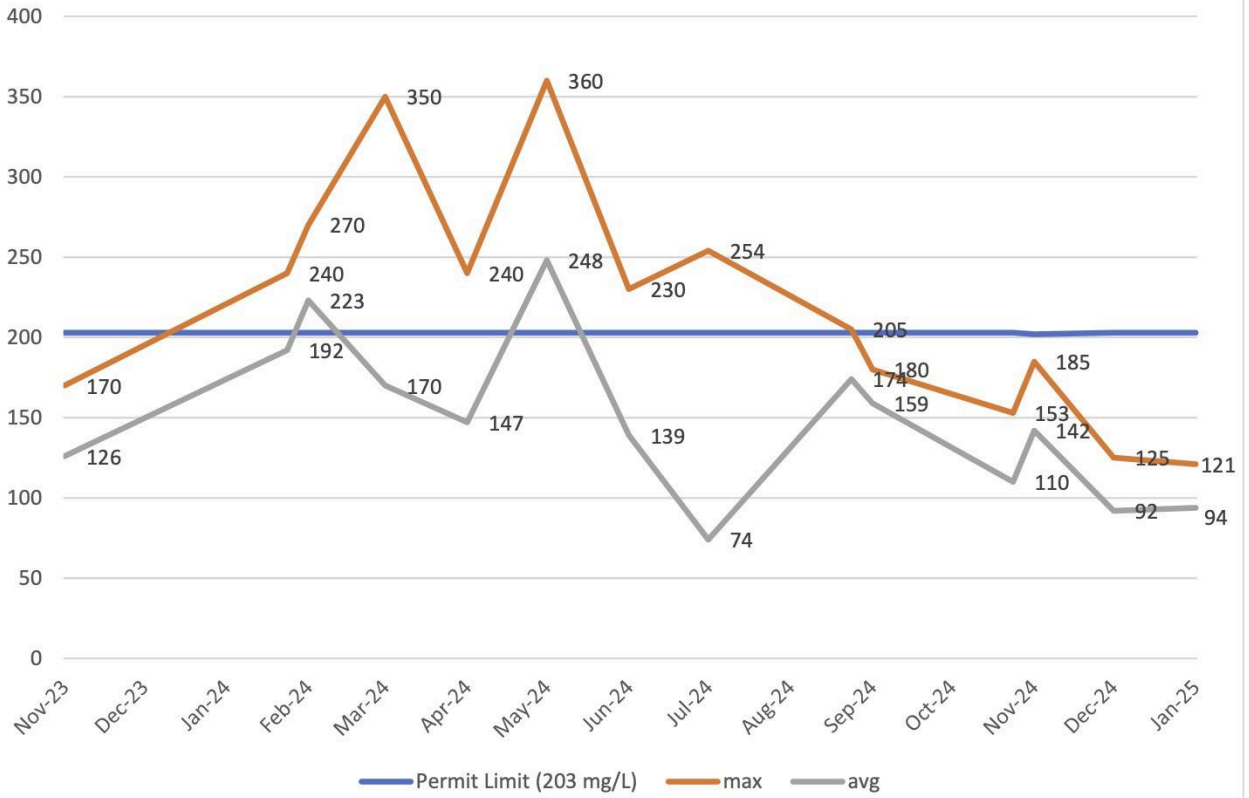
Purchased water for the month averaged 15,491 gpd compared to 12,523 gpd for the same month in 2024. The weekly free chlorine residual in the drinking water ranged from 0.14 - 0.43 ppm/Cl<sup>2</sup> compared to the recommended goal of >.20 to <1.0 ppm/Cl<sup>2</sup> at the entry point to the distribution system and a detectable residual at the tap. The EPA maximum concentration level (MCL) not to be exceeded for chlorine residual related to human health is 4.0 ppm. The monthly total coliform and e-coli water sample test results were negative.

1. Some of the difference in usage readings between 2024 and 2025 are likely due to the leak discovered in January by Bill Paige.
2. The new 6 inch meter was installed on Feb. 29<sup>th</sup>.
3. Two Rates structures have been approved by the Maine PUC 1.5 percent annual, one-time 25 percent increase.
4. At this time and the one time meter replacement fee is on hold until we can experience revenues produced by the rate increases.
5. Lead service line work concluded on Oct. 16, 2024.
6. The proper submission has been sent to MDWP notifying them that the lead service line work has been completed. NVC reported 353 connections, 0 known lead, 31 unknowns, 1 galvanized service and 321 non lead service lines.

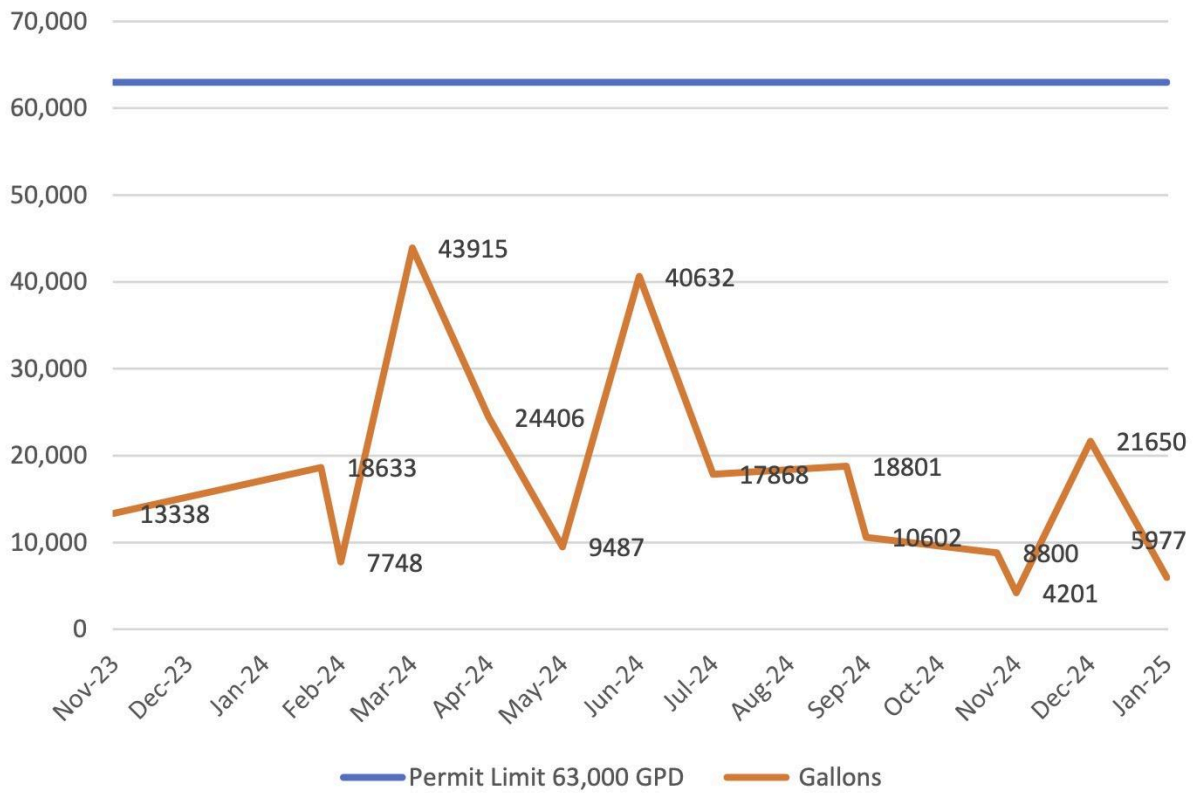
**December 23 - January 2025 Northport Village  
Flow Bod TSS Data**

	Dec-23	Nov-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25
<b>Flow Avg</b>															
Gals	30030	13338	18633	7748	43915	24406	9487	40632	17868	18801	10602	8800	4201	21650	5977
<b>BOD mg/l</b>															
max	150	170	240	270	350	240	360	230	254	205	180	153	185	125	121
avg	113	126	192	223	170	147	248	139	74	174	159	110	142	92	94
<b>TSS mg/l</b>															
max	5.8	14	7.7	16	7.7	9.7	13	22	42	64	44	26	27	18	12
avg	4.6	8	6	11.8	6	7.6	16	15	34	40	36	18	20	13	11

December 2023 - January 2025 BOD (mg/L)



### December 2023 - January 2025 Daily Flow Average



December 2023 - January 2025 TSS (mg/L)

