

Nov. 17, 2024

## Utility Department Monthly Operating Report Sewer Department

### October 2024 Effluent Monitoring Data

During the operating period of October 2024 there were two exceedances related to the enterococci test result of 2053 colonies per 100 ml sample taken on October 10<sup>th</sup> . See performance table below for further details of the regulatory monitoring data, for the month of October 2024.

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

### WWTP Monthly Performance Table

Parameters	Oct.	Sept.	Aug.	YTD Low	YTD Hi	YTD	2023	DEP Limit	YTD Exceed-ances
Flow GPD Avg	880 0	1060 2	1880 1	7748	43915	20210	20449	63,000	0
Precip inches	1.51	1.13	4.33	1.01	10	3.4	n/a	n/a	0
TSS lbs/min	1	2	4	0.4	4	1.57	1.36	<76	0
TSS lbs max	3	4	10	0.7	10	3.4	3.09	report	0
TSS mg/l ave	18	3	40	3.0	40	15.9	10.6	<145	0
TSS mg/l max	26	44	64	7.7	64	24.4	12.9	report	0
TSS % removal	93.8	87.6	86.2	86.2	97.9	93.4	96.1	>50	0
BOD lbs/min	0.3	9	16	0.3	16	10.7	19.7	<107	0
BOD lbs max	13	17	34	12.3	190	45.7	65.6	report	0
BOD mg/l ave	110	159	174	110	248	173.6	178	<203	2
BOD mg/l max	153	180	205	153	360	248.5	259.1	report	0
BOD % removal	62	45	40	14.4	62	40.3	39.4	>30	2
pH low	6.7	6.8	6.8	6.6	6.8	6.7	6.7	>6.0	0
pH high	7.0	7.1	7.1	6.9	7.1	6.9	6.9	<9.0	0
St solids ml/l	0.1	0.1	0.1	0.1	0.1	0.1	0.1	report	0
TRC mg/l max	0.03	0.02	0.03	0.02	0.05	0.05	0.066	<0.3	0
Fecal cfu ave	<4	<4	<4	<4	<4	<4	<4	<14	0
Fecal cfu max	<4	<4	<4	<4	<4	<4	<4	<31	0
Entero cfu ave	11	<4	<4	<4	11	<5	108	<8	0
Entero cfu max	205 3	<4	<4	<4	2053	211	9680	<54	0
Hg ng/l ave		n/a	n/a	n/a	n/a	n/a	4.1	33.4	0
Hg ng/l max		n/a	n/a	n/a	n/a	n/a	4.1	50.1	0

1. Moore's Septage pumped first 2 tanks on each train Mar. 27th, 2024, all tanks on 6-28-24 and first two tanks on each train on Oct. 25, 2024
2. EPA renewal application was submitted on 11-29-23

3. 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 and a certification that is being processed.
4. There was only 1.13 inches of rain in September and 1.51 inches of rain in October.
5. 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.
6. Influent Loading Testing and before chemical addition study continues
  - a. Some high influent BODs have been recorded as high as 800 mg/l.
  - b. It is common for the influent weir to become clogged limiting the flow to one or two trains.
  - c. During the tank pumping on 10-25-24 train one's first tank had a 3 foot crust in comparison to a 2 foot crust in the fist tanks in train 2 and 3.
  - d. Train 3 first tank was reported to smell of yeast by Moore's similar to brewers pumped by Moore's. We will most likely recommend a public education document on brewing beer in small wastewater systems.
  - e. We are hoping to present an executive summary at the meeting on the 22<sup>nd</sup> of November.
  - f. Dirigo Engineering has begun the FSP and CAP this month by inspecting manholes. Some manholes were not accessible.
  - g. RCAP began GIS manholes in November.
  - h. The FSP and CAP Grant application was submitted to the MMBB on 9/29/24.
  - i. There is a MMBB Loan Agreement to be signed by the village, Chuck is arranging to get this sent to Janae for signature.

## Drinking Water Department

### October 2024 Production and Water Quality.

Purchased water for the month averaged **23,453 gpd compared to 22,006 gpd** for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.13 - 0.22 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 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.

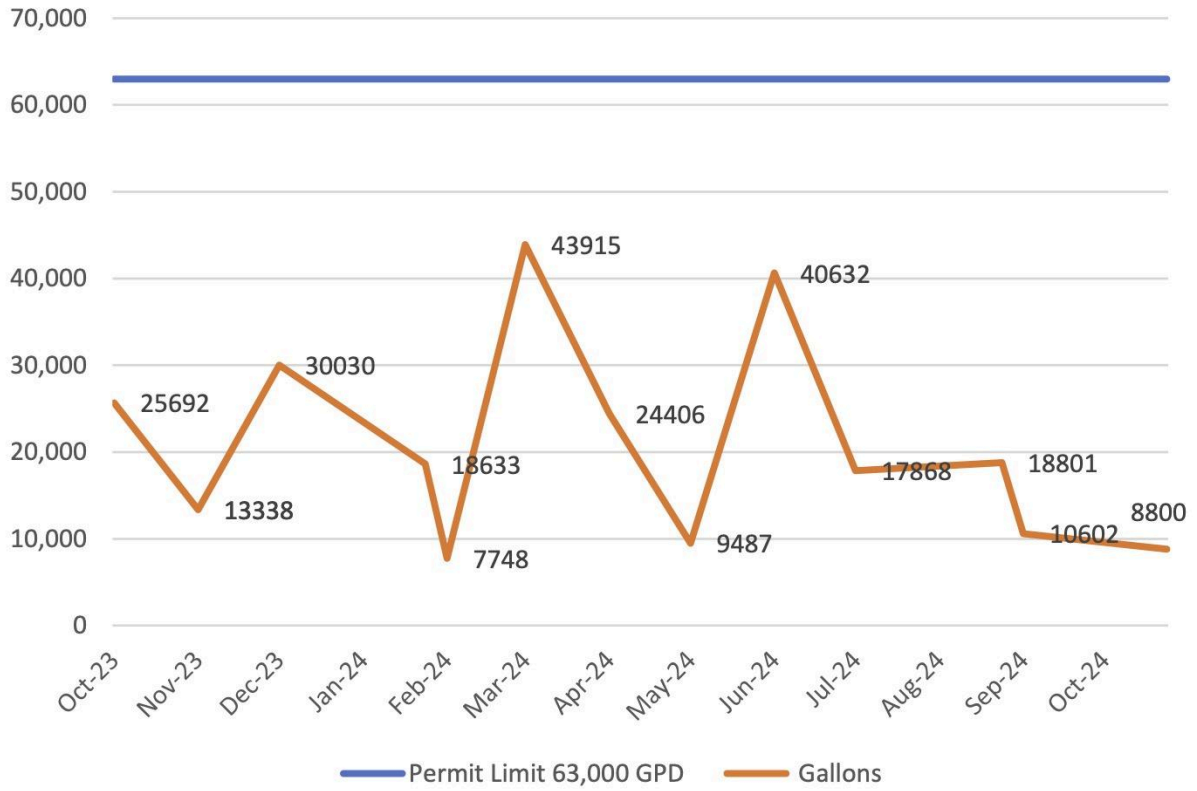
1. It appears that the chart recorder or relay wire caused interference with the meter reading we are waiting for a tech from Ti-Sales to check the cause of the problem. In the meantime, we don't have instantaneous flow information.
2. The new 6 inch meter was installed on Feb. 29<sup>th</sup>.
3. Two Rates structures have been approved by the Maine PUC 1.5 percent annual, one-time 25 percent increase.
  - a. The one percent and 25 percent are ready for implementation in the Nov. bill.
4. At this time and one time meter replacement fee is on hold.
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.

The grant reimbursement forms have also been submitted to the state for the lead

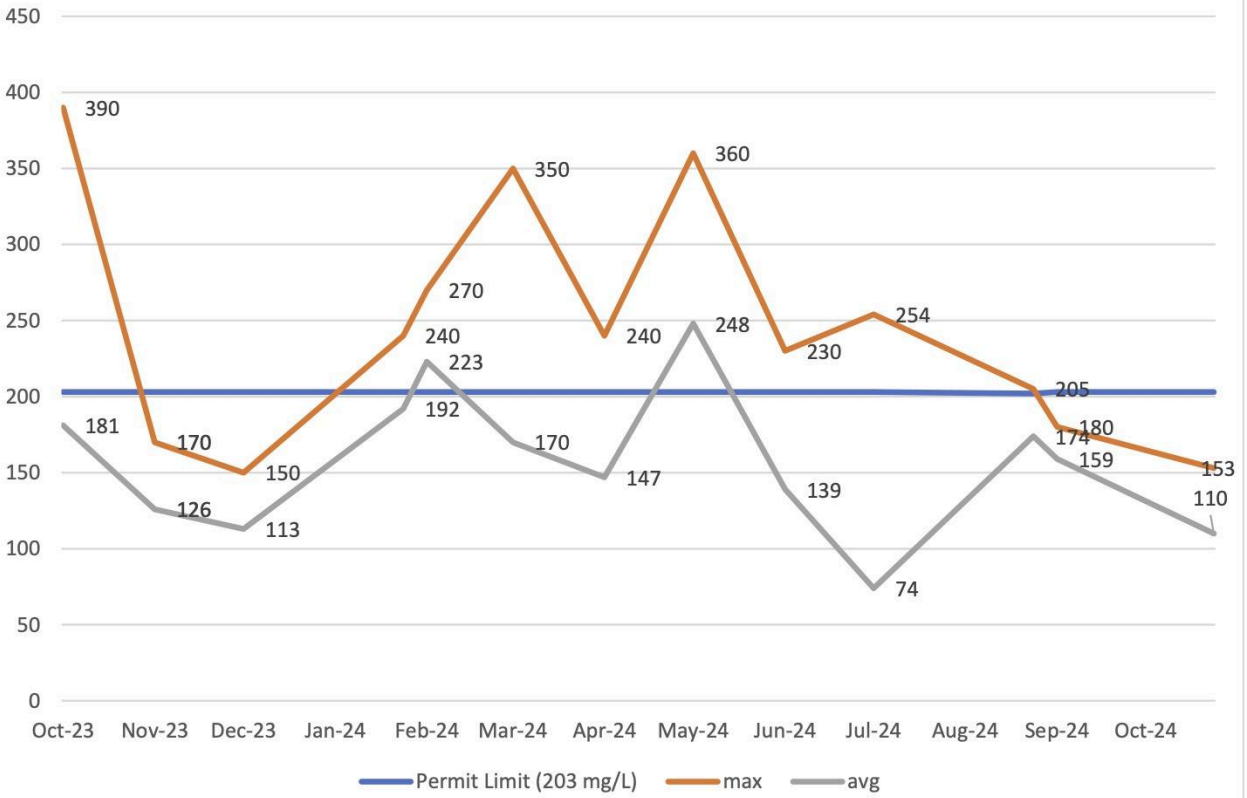
**October 23 - October 2024 Northport Village  
Flow Bod TSS Data**

	Sep-23	Oct-23	Nov-23	Dec-23	Nov-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24
<b>Flow Avg</b>															
Gals	18124	25692	13338	30030	13338	18633	7748	43915	24406	9487	40632	17868	18801	10602	8800
<b>BOD mg/l</b>															
max	420	390	170	150	170	240	270	350	240	360	230	254	205	180	153
avg	333	181	126	113	126	192	223	170	147	248	139	74	174	159	110
<b>TSS mg/l</b>															
max	18	17	14	5.8	14	7.7	16	7.7	9.7	13	22	42	64	44	26
avg	15	8	8	4.6	8	6	11.8	6	7.6	16	15	34	40	36	18

# October 2023 - October 2024 Daily Flow Average



October 2023 - October 2024 BOD (mg/L)



### October 2023 - October 2024 TSS (mg/L)

