

December 15, 2024

Utility Department Monthly Operating Report Sewer Department

November 2024 Effluent Monitoring Data

During the operating period of November 2024 there were no exceedances. See performance table below for further details of the regulatory monitoring data, for the month of November 2024.

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

WWTP Monthly Performance Table

Parameters	Nov.	Oct.	Sept.	YTD Low	YTD Hi	YTD	2023	DEP Limit	YTD Exceed-acnes
Flow GPD Avg	4201	8800	1060 2	4201	43915	18754	20449	63,000	0
Precip inches	2.06	1.51	1.13	1.01	10	3.27	n/a	n/a	0
TSS lbs/min	0.3	1	2	0.3	4	1.45	1.36	<76	0
TSS lbs max	0.8	3	4	0.7	10	3.16	3.09	report	0
TSS mg/l ave	20	18	3	3.0	40	16.3	10.6	<145	0
TSS mg/l max	27	26	44	7.7	64	24.6	12.9	report	0
TSS % removal	93	93.8	87.6	86.2	97.9	93.4	96.1	>50	0
BOD lbs/min	2.7	0.3	9	0.3	16	10	19.7	<107	0
BOD lbs max	5.4	13	17	5.4	190	42	65.6	report	0
BOD mg/l ave	142	110	159	110	248	170.7	178	<203	2
BOD mg/l max	185	153	180	153	360	242.7	259.1	report	0
BOD % removal	51	62	45	14.4	62	41.2	39.4	>30	2
pH low	6.8	6.7	6.8	6.6	6.8	6.7	6.7	>6.0	0
pH high	6.9	7.0	7.1	6.9	7.1	6.9	6.9	<9.0	0
St solids ml/l av	0.1	0.1	0.1	0.1	0.1	0.1	0.1	report	0
TRC mg/l max	0.02	0.03	0.02	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	n/a	11	<4	<4	11	<5	108	<8	1
Entero cfu max	n/a	2053	<4	<4	2053	211	9680	<54	1
Hg ng/l ave	n/a	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	n/a	4.1	50.1	0

1. The flow average for November of 4201 gpd is unrealistically low and probably not accurate. So we are in the process of getting the flow chart replaced and reinstating a daily flow readings. Currently flow readings are sporadic.
2. 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
3. EPA renewal application was submitted on 11-29-23

4. **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.**
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. **RCAP is schedule to begin the sewer rate discussion at the January meeting 1/17/25.**

Drinking Water Department

November 2024 Production and Water Quality.

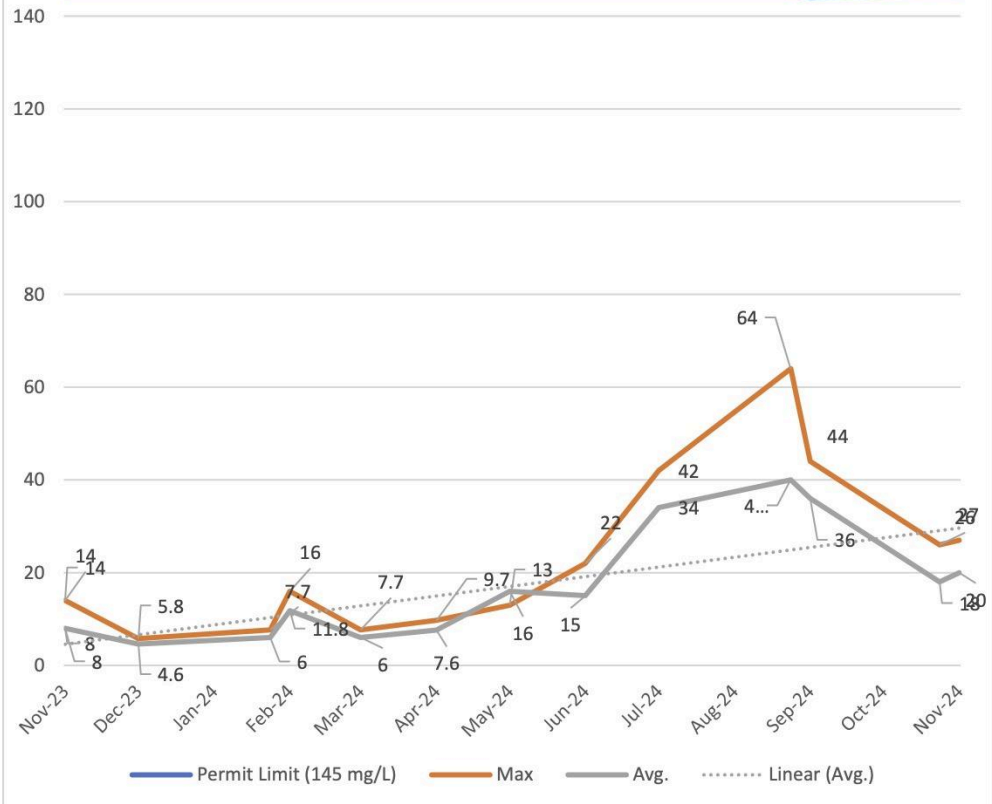
Purchased water for the month averaged **14,337 gpd compared to 13165 gpd** for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.14 - 0.22 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl² at the entry point to the distribution system and residual 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. **The recording chart meter has been repaired so the meter and chart are no communicating and we have daily flows, pressure and daily maximum gpm.**
2. **The new 6 inch meter was installed on Feb. 29th.**
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 the 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.**
7. **The grant reimbursement forms have also been submitted to the state for the lead service work and the village is awaiting funding to pay the final invoice for this work.**

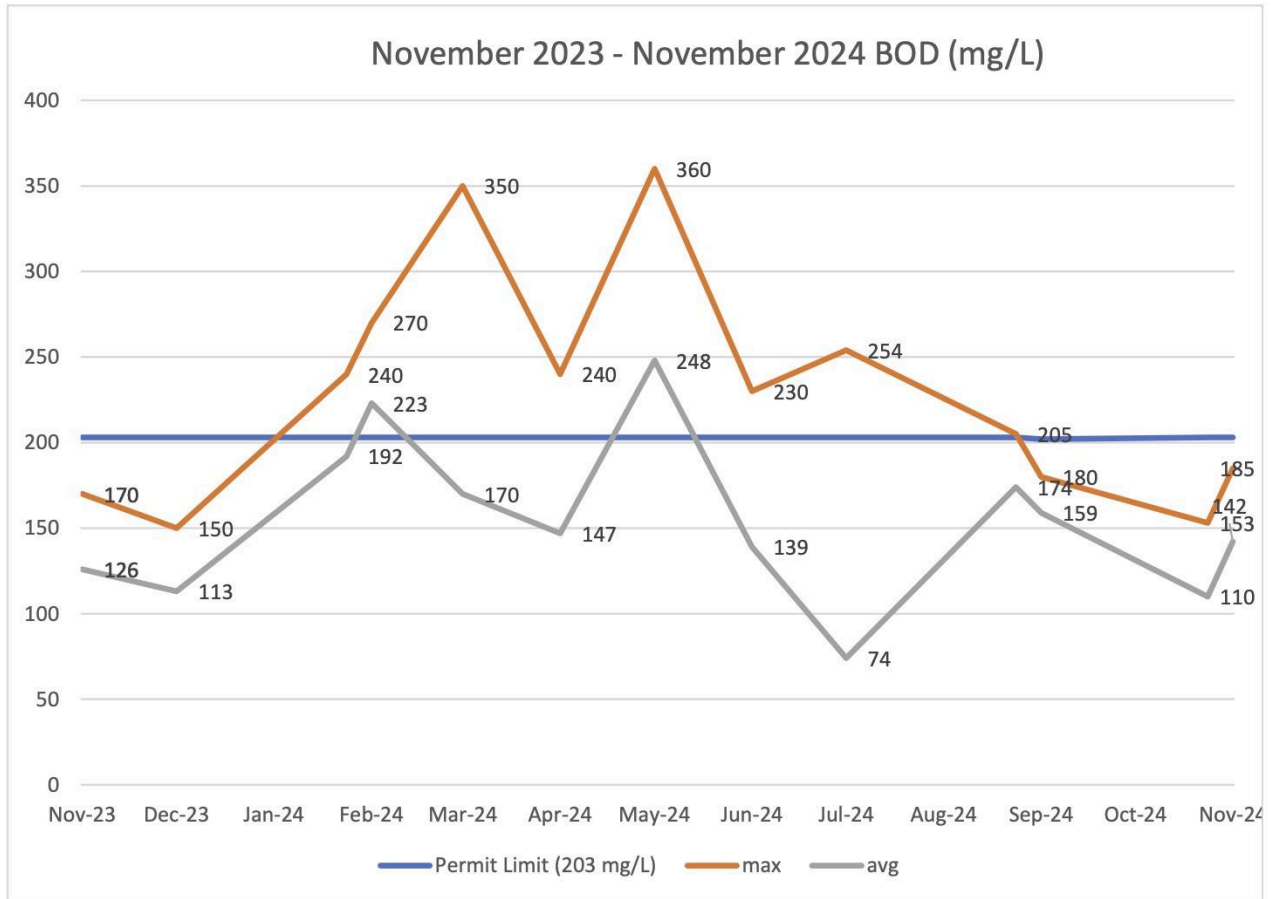
**November 23 - November 2024 Northport Village
Flow Bod TSS Data**

	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	Nov-24
Flow Avg															
Gals	25692	13338	30030	13338	18633	7748	43915	24406	9487	40632	17868	18801	10602	8800	4201
BOD mg/l															
max	390	170	150	170	240	270	350	240	360	230	254	205	180	153	185
avg	181	126	113	126	192	223	170	147	248	139	74	174	159	110	142
TSS mg/l															
max	17	14	5.8	14	7.7	16	7.7	9.7	13	22	42	64	44	26	27
avg	8	8	4.6	8	6	11.8	6	7.6	16	15	34	40	36	18	20

November 2023 - November 2024 TSS (mg/L)



November 23 - November 2024 Northport Village
Flow Bod TSS Data



November 2023 - November 2024 Daily Flow Average

