

August 11, 2024

## Utility Department Monthly Operating Report Sewer Department

### July 2024 Effluent Monitoring Data

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

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

### WWTP Monthly Performance Table

Parameters	July	June	May	YTD Low	YTD Hi	YTD Ave	2023 Ave	DEP Limit	YTD Exceed- acnes
Flow GPD	17868	40632	9487	7748	43915	23241	<b>20449</b>	<b>63,000</b>	0
Precip inches	3.92	3.79	2.85	1.01	10	3.87	n/a	n/a	0
TSS lbs/min	4	1	1	0.4	4	1.23	<b>1.36</b>	<b>&lt;76</b>	0
TSS lbs max	9	3	1	0.7	9	2.42	<b>3.09</b>	<b>report</b>	0
TSS mg/l ave	34	15	13	5.0	34	14	<b>10.6</b>	<b>&lt;145</b>	0
TSS mg/l max	42	21	16	7.7	42	17	<b>12.9</b>	<b>report</b>	0
TSS % removal	88.2	94.8	94.4	88.2	97.9	95.2	<b>96.1</b>	<b>&gt;50</b>	0
BOD lbs/min	16	12	12	7	16	11.5	<b>19.7</b>	<b>&lt;107</b>	0
BOD lbs max	42	13	29	12.3	190	56	<b>65.6</b>	<b>report</b>	0
BOD mg/l ave	174	139	<b>248</b>	139	248	<b>184.6</b>	<b>178</b>	<b>&lt;203</b>	2
BOD mg/l max	254	230	360	230	360	278	<b>259.1</b>	<b>report</b>	0
BOD % removal	40	52	<b>14.4</b>	14.4	52	36.3	<b>39.4</b>	<b>&gt;30</b>	2
pH low	6.8	6.6	6.7	6.6	6.7	6.7	<b>6.7</b>	<b>&gt;6.0</b>	0
pH high	7.1	6.9	6.9	6.9	7.1	6.9	<b>6.9</b>	<b>&lt;9.0</b>	0
St solids ml/l	0.1	0.1	0.1	0.1	0.1	0.1	<b>0.1</b>	<b>report</b>	0
TRC mg/l max	0.04	.05	0.4	0.04	0.05	0.05	<b>0.066</b>	<b>&lt;0.3</b>	0
Fecal cfu ave	<4	<4	<4	<4	<4	<4	<4	<b>&lt;14</b>	0
Fecal cfu max	<4	<4	<4	<4	<4	<4	<4	<b>&lt;31</b>	0
Enterococcus cfu ave	<5	<5	<4	<4	<5	<4	<b>108</b>	<b>&lt;8</b>	0
Enterococcus cfu max	11	8	<4	<4	11	<6	<b>9680</b>	<b>&lt;54</b>	0
Hg ng/l ave	n/a	n/a	n/a	n/a	n/a	n/a	<b>4.1</b>	<b>33.4</b>	0
Hg ng/l max	n/a	n/a	n/a	n/a	n/a	n/a	<b>4.1</b>	<b>50.1</b>	0

1. Moore's Septage pumped first 2 tanks on each train Mar. 27th, 2024 and all tanks on 6-28-24.
2. EPA renewal application was submitted on 11-29-23
3. There was 3.92 inches of rain in July.
4. 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
5. Influent Loading Testing and before chemical addition study is underway

- 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**

## **Drinking Water Department**

### July 2024 Production and Water Quality.

Purchased water for the month averaged **13,015 gpd compared to 23,332 gpd** for the same month in 2023. The weekly free chlorine residual in the drinking water ranged from 0.22 - 0.32 ppm/Cl<sup>2</sup> compared to the recommended goal of >.20 to <1.0 ppm/Cl<sub>2</sub> at the entry point to the distribution system. 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 both negative.

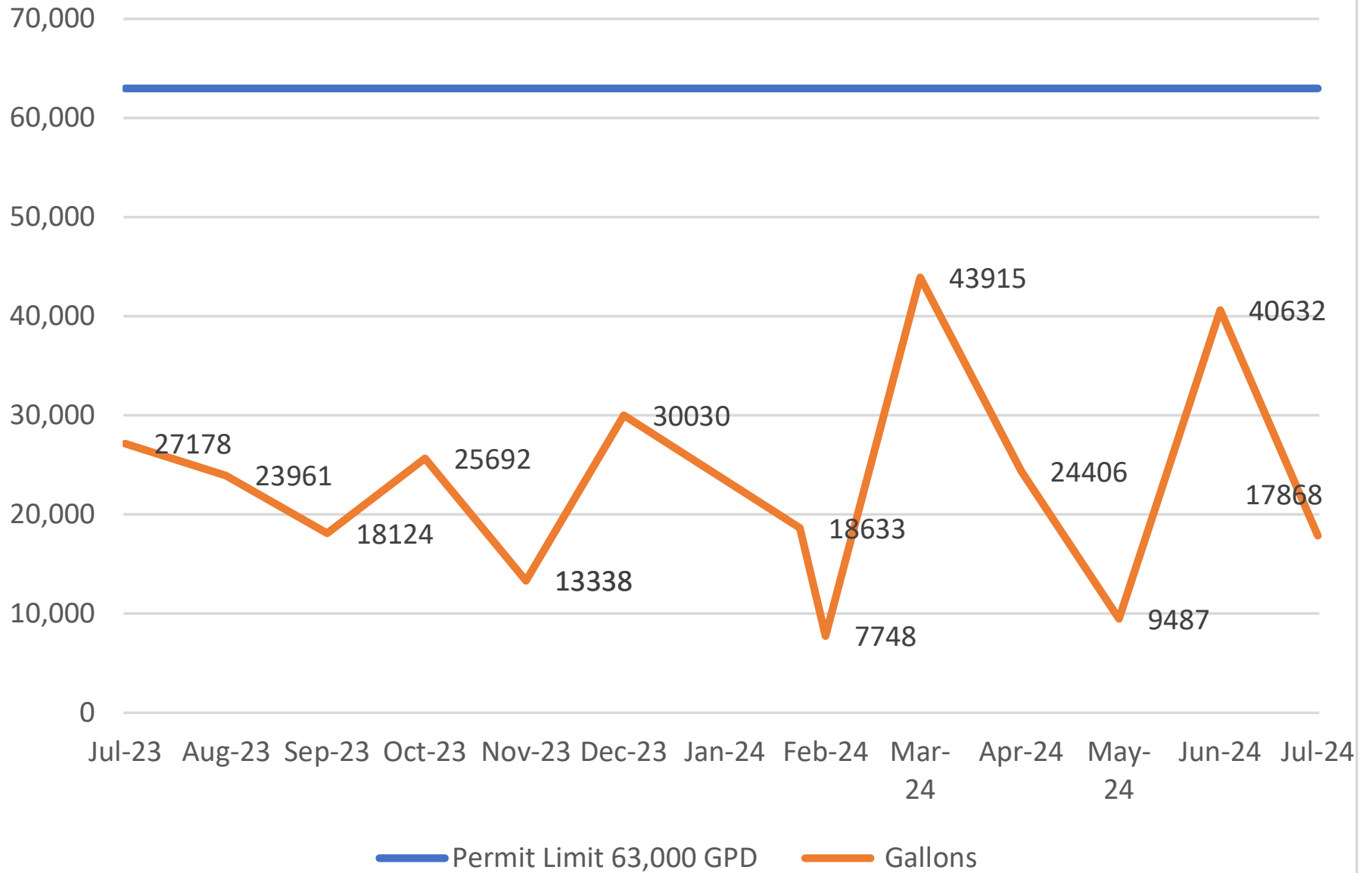
- 1. July bill from Belfast WD was averaged due to an incorrect meter readings**
- 2. It appears that the chart recorder or relay wire caused interference with the meter reading**
- 3. The new 6 inch meter was installed on Feb. 29<sup>th</sup>**
- 4. Three Rates are under consideration with the Maine PUC 1.5 percent annual, one time 25 percent increase and one time meter replacement fee**
- 5. Lead service line work has been started**

July 23 - July 2024 Northport Village

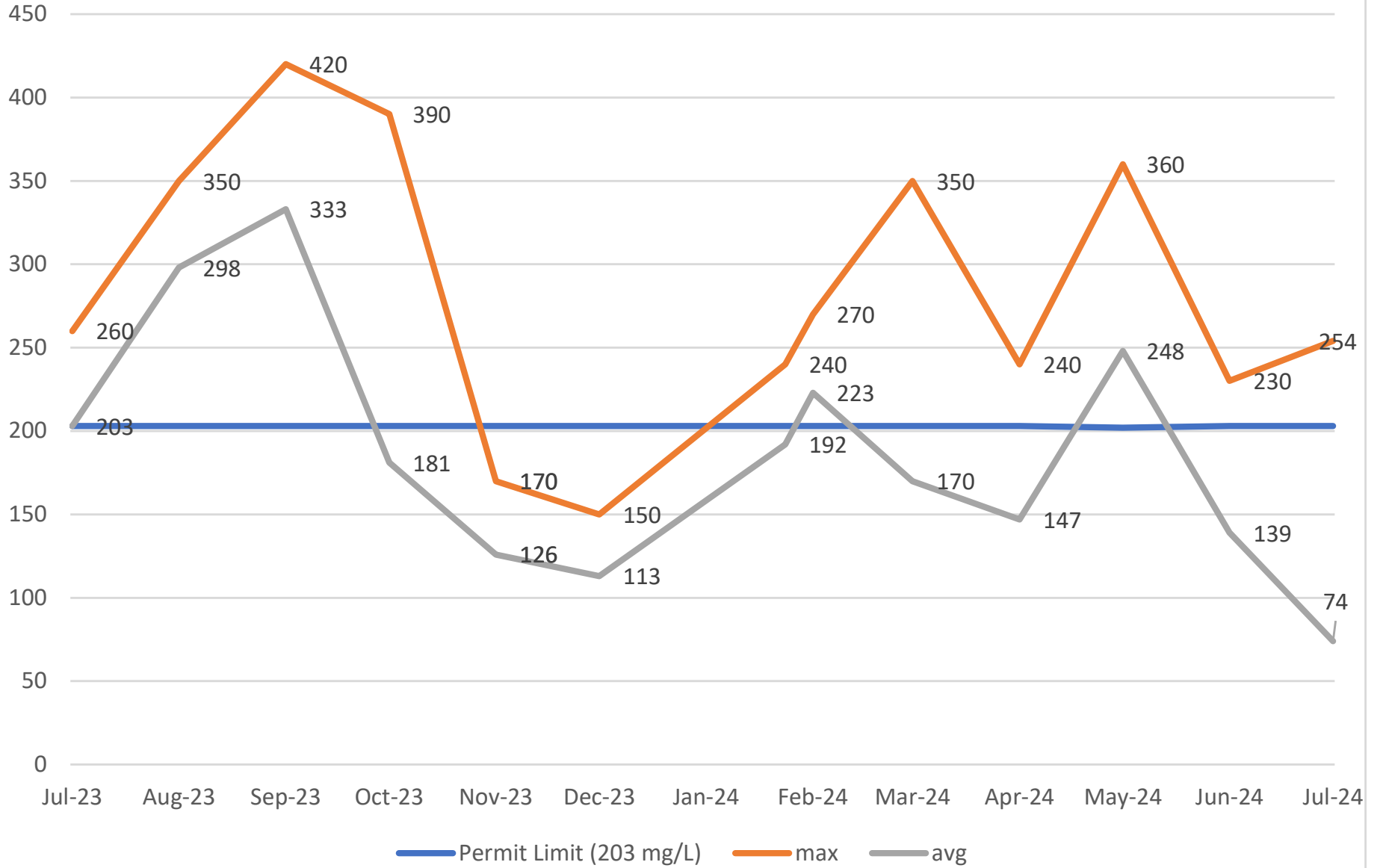
Flow Bod TSS Data

	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Nov-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24
<b>Flow Avg</b>															
Gals	18085	27178	23961	18124	25692	13338	30030	13338	18633	7748	43915	24406	9487	40632	17868
<b>BOD mg/l</b>															
max	250	260	350	420	390	170	150	170	240	270	350	240	360	230	254
avg	175	203	298	333	181	126	113	126	192	223	170	147	248	139	74
<b>TSS mg/l</b>															
max	16	16	19	18	17	14	5.8	14	7.7	16	7.7	9.7	13	22	42
avg	12	15	17	15	8	8	4.6	8	6	11.8	6	7.6	16	15	34

# July 2023 - July 2024 Daily Flow Average



# July 2023 - July 2024 BOD (mg/L)



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

