

Jan. 12, 2023

## Utility Department Monthly Operating Report Sewer Department

### December 2023 Effluent Monitoring Data

During the December operating period there were no exceedances. See performance table below for further details of the regulatory monitoring data. For the month December 2023.

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

### WWTP Monthly Performance Table

Parameters	Dec.	Nov.	Oct.	YTD Low	YTD Hi	YTD Ave	2022 Ave	DEP Limit	YTD Exceed- acnes
Flow GPD	30030	13338	25692	13338	30030	<b>20449</b>	20228	<b>63,000</b>	0
Precip inches	<b>8.07</b>	<b>2.79</b>	<b>7.53</b>				n/a	n/a	0
TSS lbs/min	1	0.26	1	0.59	2.13	<b>1.36</b>	2.6	< <b>76</b>	0
TSS lbs max	9	2.25	4	2.25	9	<b>3.09</b>	5.1	<b>report</b>	0
TSS mg/l ave	4.6	7.7	8	4.6	17	<b>10.6</b>	26.1	< <b>145</b>	0
TSS mg/l max	5.8	14	17	5.8	19	<b>12.9</b>	37.5	<b>report</b>	0
TSS % removal	96.8	97.3	97.2	84.8	97	<b>96.1</b>	89.7	> <b>50</b>	0
BOD lbs/min	11	6.31	15	5.4	33.84	<b>19.7</b>	15.2	< <b>107</b>	0
BOD lbs max	278	33.45	64	8.2	278	<b>65.6</b>	26.9	<b>report</b>	0
BOD mg/l ave	113	126	181	62.3	333	<b>178</b>	140.1	< <b>203</b>	<b>2</b>
BOD mg/l max	150	170	390	56	420	<b>259.1</b>	161.6	<b>report</b>	0
BOD % removal	44.3	56.5	37.5	-3	56.5	<b>39.4</b>	51.6	> <b>30</b>	<b>2</b>
pH low	6.7	6.7	6.7	6.4	6..7	<b>6.7</b>	6.5	> <b>6.0</b>	0
pH high	7.0	6.9	6.9	6.7	7.0	<b>6.9</b>	6.7	< <b>9.0</b>	0
St solids ml/l	0.1	0.1	0.3	0.1	0.2	<b>0.1</b>	0.15	<b>report</b>	0
TRC mg/l max	0.05	0.04	0.05	0.02	0.08	<b>0.066</b>	.03	< <b>0.3</b>	0
Fecal cfu ave	<4	<4	<4	<4	4	<4	9.58	< <b>14</b>	0
Fecal cfu max	<4	<4	<4	<4	4	<4	19.37	< <b>31</b>	0
Enterococcus cfu ave	n/a	n/a	<4	<4	714	<b>108</b>	10.8	< <b>8</b>	<b>2</b>
Enterococcus cfu max	n/a	n/a	<4	<4	9680	<b>9680</b>	26.9	< <b>54</b>	<b>2</b>
Hg ng/l ave	n/a	n/a	n/a	na	n/a	n/a	18.28	<b>33.4</b>	0
Hg ng/l max	n/a	n/a	n/a	na	n/a	n/a	7.0	<b>50.1</b>	0

1. **Moore's Septage is pumped sludge 10/6/23.**
2. **BOD concentration dropped after pumping**
3. **EPA renewal application was submitted on 11-29-23**
4. **MDEP Inspection still waiting on final report**
5. **Work has begun with RCAP to submit a rate increase request to MPUC**
6. **RCAP will also assist with GIS mapping and wastewater chlorination review**

## **Drinking Water Department**

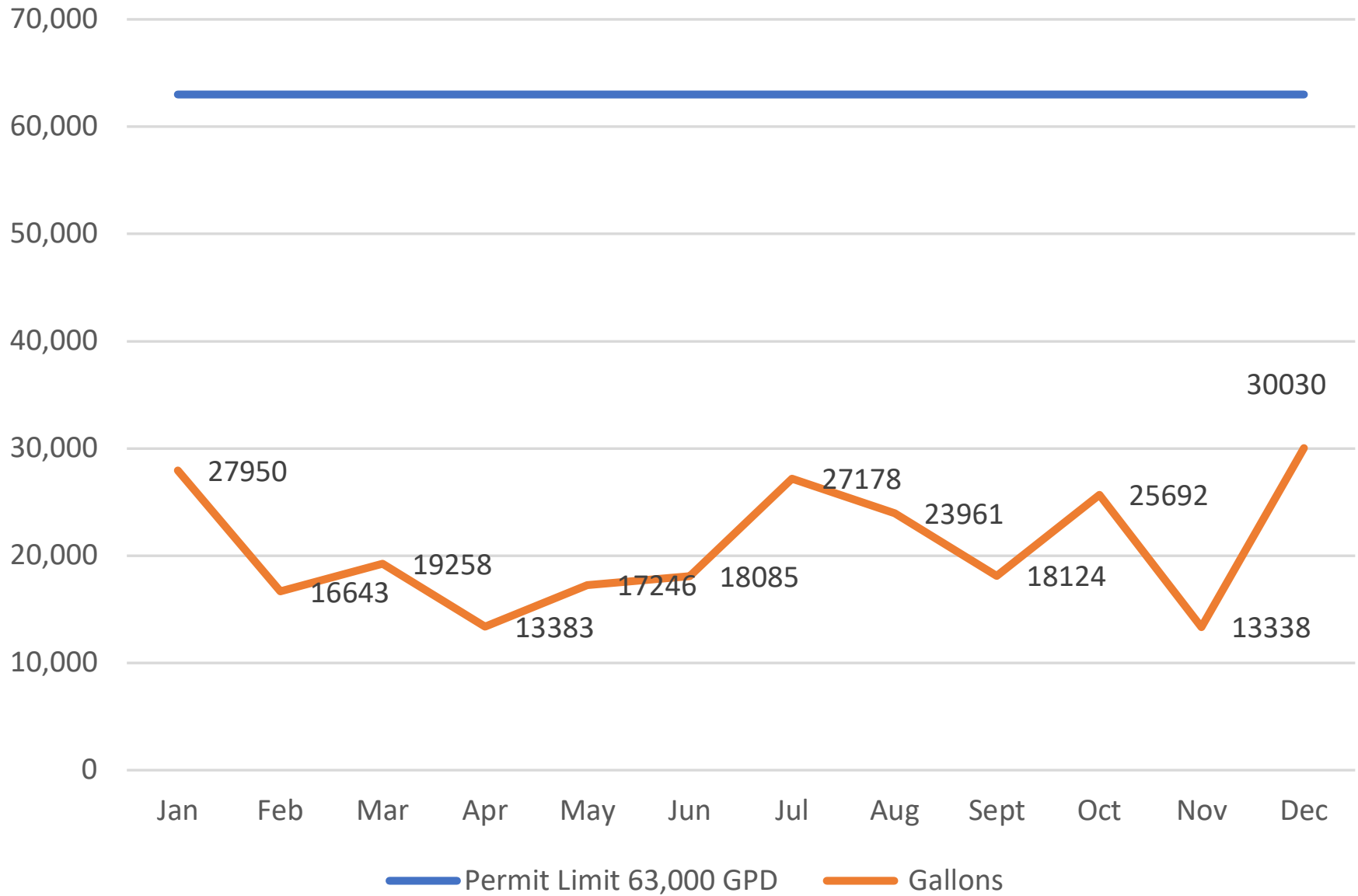
### December 2023 Production and Water Quality.

Purchased water for the month averaged 12,740 gpd compared to 16,021 gpd for the same month in 2022. The weekly free chlorine residual in the drinking water ranged from 0.2 - 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.

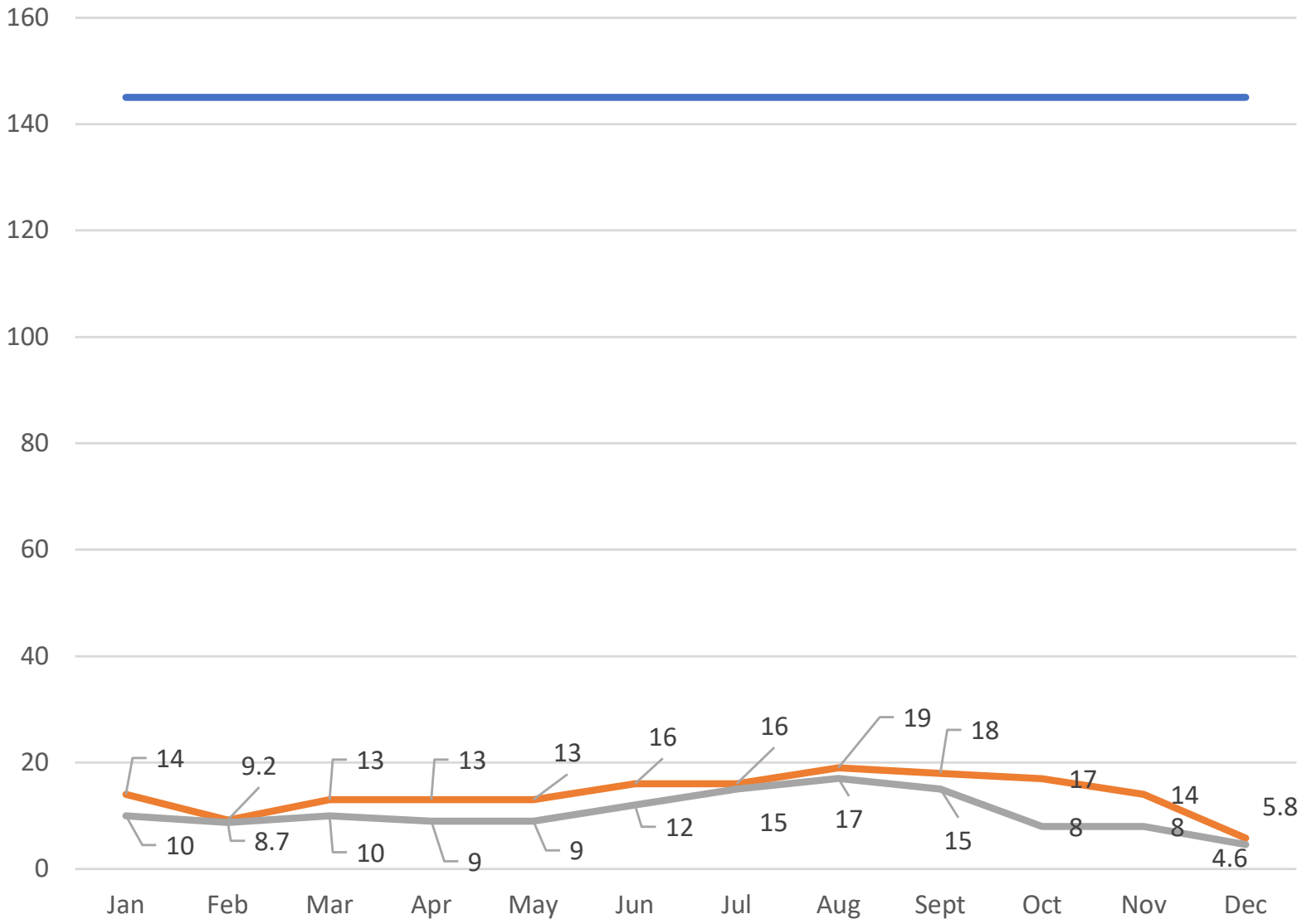
**2023 Northport Village  
Flow Bod TSS Data**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
<b>Flow Avg</b>	permit limit 63,000 gpd											
Gals	27950	16643	19258	13383	17246	18085	27178	23961	18124	25692	13338	30030
<b>BOD mg/l</b>	permit limit 203 mg/l monthly average											
max	200	180	380	354	200	250	260	350	420	390	170	150
avg	174	148	183	164	154	175	203	298	333	181	126	113
<b>TSS mg/l</b>	permit limit 145 mg/l monthly average											
max	14	9.2	13	13	13	16	16	19	18	17	14	5.8
avg	10	8.7	10	9	9	12	15	17	15	8	8	4.6

# 2023 Daily Flow Average

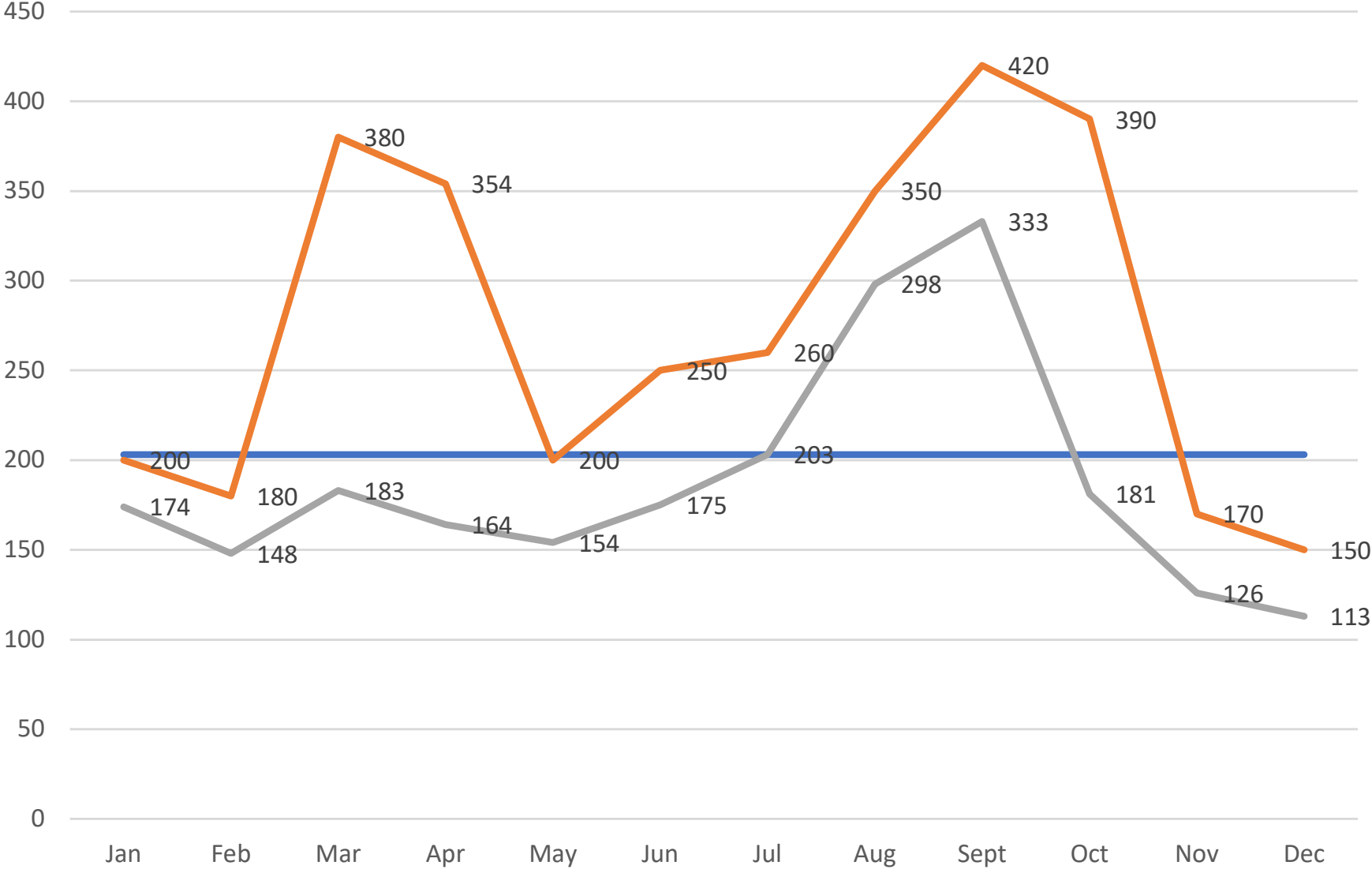


# 2023 TSS (mg/L)



— Permit Limit (145 mg/L) — Max — Avg.

# 2023 BOD (mg/L)



— Permit Limit (203 mg/L) — max — avg