



## **Minutes of the NVC Utilities Committee**

*2:30 pm, March 13, 2020*

*Community Hall*

### **Attendees:**

David Crofoot: Chair  
Gordon Fuller: Community Representative  
Mike Lannan: Overseer  
Judy Metcalf: Overseer  
Richard McElhaney: Utility Superintendent  
Bill Paige: Village Agent  
Janae Novotny: Resident  
Tim Sawtelle: Dirigo Engineering

**Meeting called to order at:** 2:35 pm

### **Approval of minutes:**

**Judy M. moved to have the April meeting of utility trustees and any subsequent meetings conducted by phone in the event that the COVID0-19 pandemic remains in place; Mike L. seconded the motion; the vote was unanimous.**

### **New Business:**

- There was a review of the Dirigo Engineering plans for the wastewater treatment building, nothing new to report.
- There was discussion about the sound level of the generator due to its location. Generator is in that location due to restrictions on distance to certain elements.
- There was a review of the plans and explanation.
- There was discussion regarding the timing of the Seawall project and the wastewater treatment building project being completed at the same time. The wastewater treatment building needs to be completed by 12/31//2020.
- Design changes were discussed by Mike L. and Janae N., regarding the steel door, landscaping, cement stairs, and other aesthetics. The door, landscaping, and stairs will be changed to be more aesthetically pleasing.
- Judy M. stated that Mike L. has continued to raise concerns regarding the odor, no solution reached in context of the building discussion, intent to find a solution.
- Tim S. will finish and put out for bid, leave the bid out for a month to six weeks.
- Final plans are due by 09/30/2020.

**Judy M. and Tim S. leave the meeting.**



**Mike voices his concerns regarding the drawings and the points that he has brought up in the past. The attendees discussed the list that was provided by Mike L. at the previous meeting and given to Tim S. Discussions continued with no resolution.**

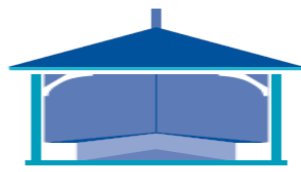
**March Billing**

- Bill P. states that the bills will be going out on 03/16/2020.

**Meeting Adjourned:** at 4:50 pm

**The next Utilities Committee Meeting is at 2:30 pm on Friday, April 10<sup>th</sup>.**

Meeting minutes submitted by Nina Richard.



March 13, 2020

Utility Superintendent's Report

Sewer Department

January 2020 Effluent Monitoring Data

**The NVC Wastewater Treatment Plant (WTP) was in full compliance with its wastewater discharge license for the month. There were no license exceedances.**

Flow averaged 12,032 gpd compared to 15,148 gpd for the same month in 2019. Daily flow ranged from a low of 4,900 gpd to a high of 68,000 gpd during a heavy rain event. Precipitation for the month was 2.97" versus 3.89" in 2019.

TSS and BOD<sup>5</sup> averaged 0.9 lbs/day (13.0 mg/l) and 2.8 lbs/day (41.2 mg/l), respectively compared to 1.2 lbs. /day (13.5 mg/l) and 2.9 lbs. /day (30.8 mg/l) for the same month in 2019.

See performance table below for this month's comparisons, averages, year-to-date highs and lows, permit limits, and year-to-date (YTD) exceedances. Testing frequency is continuous for flow; weekly for TSS, BOD<sup>5</sup>, Settleable Solids (S. S.) and Fecal Coliform (April 15 – October 31, 5 days/week for pH; daily for total residual chlorine (April 15 – October 31) and annually for low level mercury. **TSS and BOD percent removal rates are based on assumed influent concentrations of 290 mg/l.**

Monthly Performance Table

Parameters	January	December	November	YTD Lo	YTD Hi	YTD Ave	2019 Ave	DEP Limit	Exceedances
Flow GPD	<b>12032</b>	19016	13323				13917	<b>&lt;63,000</b>	0
Precip Inches	<b>2.97</b>	4.53	3.56				3.76	<b>n/a</b>	0
TSS lbs/day	<b>0.9</b>	2.2	1.6				2.2	<b>&lt;76</b>	0
TSS mg/l	<b>13.0</b>	12.8	17.8				23.4	<b>&lt;145</b>	0
BOD <sup>5</sup> lbs/day	<b>2.8</b>	2.8	2.8				5.3	<b>&lt;107</b>	0
BOD <sup>5</sup> mg/l	<b>41.2</b>	30.3	30.3				62.7	<b>&lt;203</b>	0
TSS% Removal	<b>95.5</b>	95.6	93.9				92.2	<b>&gt;50</b>	0
BOD <sup>5</sup> Removal	<b>85.8</b>	89.6	89.6				78.4	<b>&gt;30</b>	0
pH lo	<b>6.6</b>	6.7	6.6				6.6	<b>&gt;6.0</b>	0
pH Hi	<b>6.9</b>	6.9	6.9				6.9	<b>&lt;9.0</b>	0
S.S. ml/l	<b>&lt;0.1</b>	<0.1	<0.1				0.1	<b>Report</b>	0
TRC mg/l	<b>na</b>	na	na				0.02	<b>&lt;0.3</b>	0
F Col/100 ml	<b>na</b>	na	na				3.37	<b>&lt;14-ave</b>	0
F Col/100 ml	<b>na</b>	na	na				6.81	<b>&lt;31-max</b>	0
Mercury ng/l	<b>na</b>	na	na	na	na		20.7	<b>33.4</b>	0

**Note:** The last exceedance for flow was **165 months ago (2/2006)**. The last exceedance for fecal coliform was **88 months ago (8/2012)**. The last exceedance for BOD was **63 months ago (9/2014)**. The record annual average low for flow was 12,017 gpd in 2017.

## February 2020 Snapshot

The NVC WTP is expected to be in full compliance with its license limits pending the DEP's completed review of the NVC's discharge monitoring report. Flow averaged 8,090 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 2.66 inches.

### Enterococci Testing

The DEP is working with the Attorney General's office to delay all weekly enterococci testing for 301 (h) facility wastewater discharges in Maine until April 15, 2022. All other conditions and timelines of the NVC wastewater discharge permit/license and consent agreement will remain unchanged.

### Project Drawings for New Chlorination Building – Final Review Copy

Copies of the New Chlorination Building drawings for final review were sent to Trustee members under separate cover for further discussion. Dirigo Engineering is tentatively scheduled to be present at this meeting answer any further questions or concerns about the design and / or omissions etc.

### EPA Administrative Order on Consent Timeline Update

1. ~~By June 30, 2019, complete preliminary engineering study to present new physical plant options.~~ **Completed** by Dirigo Engineering on April 12, 2019 – “Disinfection & Dechlorination Options Review”.
2. ~~By August 31, 2019, complete preliminary resource assessment/planning to identify potential new locations for a new physical plant.~~ **Completed**. Location options identified by Dirigo Engineering on April 12, 2019 – “Disinfection & Dechlorination Options Review”.
3. ~~By (or before) October 31, 2019, select location and finalize preliminary design to support the NVC effort to secure funding for the new physical plant (select location by Labor Day 2019).~~ **Completed** – “Preliminary Design Plans for the Chlorination Building”
4. By **(or before)** September 30, 2020, secure approval of funding from the residents of NVC **(at their August 2019 or 2020 Annual Meeting)** for financing the new physical plant.
5. By **(or before)** September 30, 2020 complete final design and resource assessment/planning to support land use permitting and formation of construction contract documents for the new physical plant.
6. By **(or before)** December 31, 2020, complete construction of new physical plant.

The NVC must submit semi-annual progress reports summarizing its compliance with the provisions of this Consent Order on or before June 1<sup>st</sup> and December 1<sup>st</sup> of each year. Furthermore, whereas, the Consent Order requires a specific action to be performed within a certain time frame, NVC shall in addition submit a written notice of compliance or non-compliance within 14 days of each deadline. The first six month progress report was submitted to

EPA/MEDEP November 30, 2019. Copy of this report was sent to committee members under separate cover.

## Drinking Water Department

### January 2020 Usage and Water Quality

Purchased water for the month averaged 15,052 gpd compared to 12,232 gpd for the same month in 2019. The weekly free chlorine residual in the drinking water ranged from 0.24 - 0.36 ppm/Cl<sup>2</sup> compared to the recommended goal of >.20 to <1.0 ppm/Cl<sup>2</sup>. The EPA maximum concentration level (MCL) not to be exceeded for chlorine residual is 4.0 ppm. The monthly total and e-coli water sample test results were both negative.