

Minutes of ZOOM meeting  
NVC Utilities Committee  
November 13, 2020

Members present: David Crofoot, Judy Metcalf, Janae Novotny, Jeffrey Wilt, Bill Paige, Dick McElhaney, Nina Richards. Also Polly Ireland.

Meeting convened at 2:40 after communications difficulties were resolved.

**Minutes of the October meeting were approved: Vote: 4-0**

**Billing Recap:** Outstanding past-due bills as of November 1<sup>st</sup>:

Water: \$2833.18

Sewer \$3150.68

Total: \$5983.86

**November billing status:** Meters have all been read and data entered into CUSI. Billing is (almost) ready to send out and should go out by Monday, Nov. 16. Bill offered hearty thanks to Janae Novotny who accompanied him during meter reading to lend a hand.

**Application for a sewer connection permit.** Polly Ireland applied for a sewer permit for a lot of record on Upper Main Street. No problems were found with the application except that the precise elevation of the sewer main in Upper Maple Street is not precisely known. The owner understands that if a gravity flow connection cannot be made, she will be responsible for installing equipment for pumping up to the main.

**The Committee voted 4:0 to approve this permit application.** Chairman Crofoot will sign the document in Community Hall and arrangements will be made for virtual signature by the President of the Overseers.

**Utilities Financials:** Nina reviewed financial data as of September 30. We discussed using a several column format that would include budget, last month's data, year to date data, variance from budget, percent of budget expended. In what could only be a cursory review, several misallocations were nevertheless identified (e.g., cost of Sewer treatment chemicals, allocated to Water budget). We discussed the current system of allocating invoices to the two Utilities and to the Village. Nina will send out copies of invoices to Utilities Committee members for review.

Committee members reiterated the need for coherently presented financial data to allow for budget preparation, and to allow oversight of expenses and income versus budget.

**2020 Budget Review:**

The modifications suggested at the last meeting have been incorporated into the current proposed budgets.

**Motion:** Judy Metcalf, 2<sup>nd</sup> Crofoot: To present the current proposed 2020 Water Budget to the Overseers for approval. **Voted 4-0 in favor.**

**Motion** by Judy Metcalf, 2<sup>nd</sup> by Crofoot: To present the current proposed 2020 Sewer Budget to the Overseers for approval. **Voted 4-0 in favor.**

**Superintendent's report:** There were no new exceedances in October. Water meter removal is almost complete. The Sewer treatment building construction is continuing with excavation completed, footings and foundation sidewalls poured, conduits for connections in place.

Superintendent McElhaney will send the semi-annual report to the DEP with regard to compliance with consent order for construction of the wastewater treatment facility due on December 1<sup>st</sup>.

**Next Meeting:** It is uncertain whether there will be a Utilities Committee Meeting in December. If necessary, it will take place on December 11<sup>th</sup>. January meeting will be on January 16<sup>th</sup>.

Meeting adjourned at 4 pm.

Respectfully submitted,

David Crofoot, Chairman

Addendum:  
Superintendent's Report

November 13, 2020

Utility Department's Report  
**Sewer Department**

September 2020 Effluent Monitoring Data

**The NVC Wastewater Treatment Plant (WTP) reported one (1) exceedance for enterococci. There were no other license exceedances.**

See performance table below for this month's comparisons, monthly daily averages, daily maximums, geo-means for bacteria, 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, Fecal Coliform and Enterococci (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.**

WWTP Monthly Performance Table

Parameters	September	August	July	YTD Lo	YTD Hi	YTD Ave	2019 Ave	DEP Limit	YTD Exceedances
Flow GPD	5757	8865	9581	5757	27243	12711	12016	<63,000	0
Precip inches	.87	2.40	2.13	2.13	4.39	2.78	3.76	n/a	0
TSS lbs/day	1.59	2.6	2.9	0.8	2.9	1.55	2.2	<76	0
TSS lbs max	1.9	3.6	4.0	1.0	4.0	na	na	report	0
TSS mg/l	32.0	35.2	37.8	6.7	37.8	23.2	23.4	<145	0
TSS mg/l max	36	46	45	10.0	46.0	na	na	report	0
BOD lbs/day	9.7	9.7	13.5	2.1	13.5	6.4	5.3	<107	0
BOD lbs max	16.5	12.4	17.9	3.4	24.9	na	na	report	0
BOD mg/l	202.5	141.2	174	35.0	202.5	84.8	62.7	<203	0
BOD mg/l max	250	190	200	40.0	250	na	na	report	0
TSS % removal	89.0	87.9	87.0	87.0	97.7	92.8	91.9	>50	0
BOD % removal	30.2	51.3	40.0	30.2	87.9	68.0	78.4	>30	0
pH low	6.5	6.5	6.5	6.5	6.7	6.6	6.6	>6.0	0
pH high	6.7	6.7	6.7	6.7	6.9	6.9	6.9	<9.0	0
St solids ml/l	0.2	0.2	0.1	<0.1	0.2	na	na	report	0
TRC mg/l max	.03	.03	.02	.02	.03	.02	0.02	<0.3	0
Fecal cfu ave	<10	11.89	17.62	<10	17.62	12.3	3.37	<14	1
Fecal cfu max	<10	20	170	<10	170	24.5	6.81	<31	1
Enterococcus ave	<10	32.46	15.85	<10	15.85	15.06	na	<8	4
Enterococcus max	<10	1110	100	100	1110	57.7	na	<54	2
Mercury ng/l	na	na	na	na	na	na	20.7	33.4	0

**Note:** The last exceedance for flow was **174 months ago (2/2006)**. The last exceedance for BOD was **72 months ago (9/2014)**. The record annual average low for flow was 12,017 gpd in 2017.

### October 2020 Snapshot

The NVC WTP is expected to be in full compliance with its license limits pending receipt from the lab for BOD for the October 26 water sample test result and the DEP's review of the NVC's discharge monitoring report. Flow averaged 6050 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 5.18 inches.

### 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 complete final design and resource assessment/planning to support land use permitting and formation of construction contract documents for the new physical plant.~~ **Completed by Dirigo Engineering on April 6, 2019 – “Project Drawings for the New Chlorination Building”**
5. ~~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.~~ **Completed by Board of Trustees on July 3, 2020**
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 of two progress reports for 2020 was submitted to EPA/MEDEP on June 1, 2020. The NVC asked the EPA/DEP to consider

extending the deadline one year to complete the construction of the chlorination building in the event the current year end deadline could not be met.

Sent via email, the EPA and MEDEP, in a letter submitted to the NVC Superintendent on July 28, 2020, agreed to extend the Order deadline to construct the new building to January 1, 2022 if necessary while at the same time opining that the NVC “should make every effort to comply with the original schedule in the ORDER” of December 31, 2020.

## **Drinking Water Department**

### September 2020 Usage and Water Quality

Purchased water for the month averaged 35,070 gpd compared to 25,972 gpd for the same month in 2019. The weekly free chlorine residual in the drinking water ranged from 0.15 - 0.18 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.

### Proposed 2021 Water and Sewer Budgets

The second drafts of the 2021 water and sewer budget were sent to Board members under separate cover.

### September Financial Reports

Not Available as of November/11/2020