

Northport Village Corporation
Utilities Committee

Minutes of the August 2019 Meeting
August 16, 2019
2:30 pm

Present; David Crofoot, Gordon Fuller, Michael Lannan, Judy Metcalf,
Superintendent Richard McElhaney, Operator Bill Paige
Absent: Richard Brockway

Minutes of the July Meeting were approved unanimously

It was noted that Richard Brockway will no longer serve as an Overseer. He had stated his willingness to offer his services to the Utilities Committee as a Technical Advisor. The Board of Overseers will appoint another Overseer to fill out the last year of Brockway's term.

Superintendent's Report:

Wastewater:

There were no license exceedances. In June, Flow averaged 14,830 gallons/day, TSS discharge averaged 2.3 lbs/day and BOD averaged 6.5 lbs/day. The snapshot for July flow appears to be in full compliance with our license.

Dirigo Engineering will proceed with the preliminary design for a year-round disinfection facility at the current site of our seasonal disinfection plant. The possibility of including design for Ultraviolet disinfection will depend on enquiries sent to different Ultraviolet companies about the feasibility of disinfecting after primary wastewater treatment.

There was a positive Fecal coliform test on August 12th although the level of 10 cfu/ml did not exceed our license limits.

Pump Station #3 on the Gray property failed and was replaced by Bill Paige and Fernie Barton with a spare pump we had in inventory. A new pump will need to be purchased to maintain a spare in case of failure.

The Utility received a Notice of Violation (NOV) from the DEP about failure to do testing and wastewater disinfection in April. This raises the question of whether the DEP recognizes the Compliance Schedule and Consent Agreement we negotiated with the EPA. This agreement made it clear that the Utility does not currently have the facilities to allow for cold-weather disinfection. Superintendent McElhaney was instructed to communicate with Gregg Woods of the DEP with regard to this question and, if necessary, to negotiate an independent Consent Agreement with the

DEP that recognizes our plan and timeframe to design and construct such a disinfection facility.

Water:

Water usage in June was 26,894 gpd.

Dirigo and Farley Brothers will be at the Community Hall on Friday, August 23 to sign contracts for the Cobe Road water main installation. It is hoped that this project will start soon after Labor Day in order to coordinate with road repaving on Shore Road at its junction with Cobe Road.

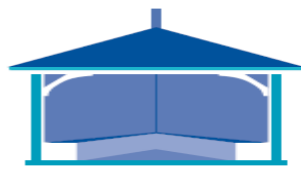
Other Concerns:

Judy Metcalf expressed concerns about instances of inappropriate billing for water (at least two cases of Bills far exceeding a \$200 threshold. There was also concern about a payment that went missing. It seems essential that the office manager be fully familiar with the functioning of the CUSI billing software and personally inspect all bills before they go out to avoid egregious billing errors. Dick McElhaney was instructed to prepare a list of billing data that the Committee will review each month to assure that billing is timely and correct.

Adjournment at 4:30 pm

Respectfully submitted,

David D. Crofoot, Chairman



By e-mail only

Utility Superintendent's Report

August 16, 2019

Sewer Department

June 2019 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 14,830 gpd compared to 6,300 gpd in 2018. Daily flow ranged from a low of 5,800 gpd to a high of 51,500 gpd during the month. Precipitation for the month was 5.46" versus 3.86" in 2018.

TSS and BOD⁵ averaged 2.3 lbs/day (33 mg/l) and 6.5 lbs/day (89 mg/l), respectively compared to 1.8 lbs/day (44.8 mg/l) and 4.4 lbs/day (113 mg/l) in 2018.

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, BOD⁵, Settleable Solids (S. S.) and Fecal Coliform (April 15 – October 31); 5 days/week for pH; and daily for total residual chlorine (April 15 – October 31).

Monthly Performance Table

Parameters	June	May	April	YTD Lo	YTD Hi	YTD Ave	2018 Ave	DEP Monthly Limit	Exceedances
Flow GPD	14830	11181	29783	7029	29783	15643	15,146	<63,000	0
Precip Inches	5.46	3.32	5.53	1.52	5.53	3.38	4.22	n/a	0
TSS lbs/day	2.3	1.2	1.3	0.8	2.3	1.04	1.97	<76	0
TSS mg/l	33	13	5.9	5.9	33	15.0	21.5	<145	0
BOD ⁵ lbs/day	6.5	3.6	2.5	1.5	6.5	2.4	5.10	<107	0
BOD ⁵ mg/l	89	39.6	11.8	11.8	89	29.9	60.4	<203	0
TSS% Removal	88.6	95.5	98.0	88.6	98.0	95.3	91.8	>50	0
BOD ⁵ Removal	69.4	86.3	95.9	69.4	95.9	89.7	77.9	>30	0
pH lo	6.6	6.6	6.5	6.5	6.7	6.58	6.7	>6.0	0
pH Hi	6.8	6.9	6.9	6.8	7.0	6.94	7.0	<9.0	0
S.S. ml/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Report	0
TRC mg/l	.03	.02	na	.02	.03	.02	0.02	<.03	0
F Col/100 ml	1.53	<1	na	<1	1.53	1.24	<1	<14-ave	0
F Col/100 ml	<10	<1	na	<1	10	3.16	<1	<31-max	0

Note: The last exceedance for flow was **158 months ago (2/2006)**. The last exceedance for fecal coliform was **81 months ago (8/2012)**. The last exceedance for BOD was **56 months ago (9/2014)**. The record annual average low for flow was 12,017 gpd in 2017.

July 2019 Snapshot

The NVC WTP is expected to be in full compliance with its license limits pending the DEP's review of the NVC's discharge monitoring report. Flow during the month averaged 14,119 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 2.23 inches.

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) – **Currently in Progress**.
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 1st and December 1st 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.

Agreement for Engineering Service for Preliminary Design Services

A letter of agreement from Dirigo Engineering to provide preliminary design services for a new or modified service building to enable year-round disinfection was accepted by the Utility Committee, signed by the Chairman and forwarded on by the Utilities Superintendent to Dirigo for them to begin the work.

Notice of Violation (NOV)

The MEDEP issued a revised NOV to the NVC Sewer Department on August 8, 2019 for the failure of the NVC to begin disinfection and weekly testing for fecal coliform on April 15, 2019 as required by the new permitting actions of the revised state wastewater discharge license and federal 301(h) permit. The Sewer Department is seeking clarification from DEP as to why the Consent Order that was recently approved by EPA giving the NVC a compliance timeline was not binding on the state wastewater discharge license as well. If it is not, then the NVC may need to request an independent “administrative order on consent” with DEP directly, or failing that, to provide a new or modified year round facility before October 31, 2019 rather than December 31, 2020 in order to disinfect and test for fecal weekly or face additional NOVs and possibly fines from DEP.

In addition, a NOV for belatedly reporting three false positive exceedances for fecal coliform was issued even though the NVC reported the exceedances in question immediately upon becoming aware of the test results reported by the off-site laboratory. As a required corrective action by DEP, the NVC Sewer Department will be performing four (4) additional make-up tests during the month of August and will report the sample results for fecal coliform to DEP the following day by pressuring the lab to give the NVC the results immediately after the tests are completed. Full and timely compliance with the required corrective actions of this case will allow this NOV to be closed out without any further action by DEP.

The extra testing performed on behalf of the NVC for fecal coliform during June and into early August was not recognized by DEP because the testing occurred before the August 8, 2019 date of the NOV.

Ultra Violet Light Transmittance Testing

A 250 mL sample of unchlorinated wastewater effluent was shipped overnight to Ontario, Canada for UV transmittance testing. Trojan UV will conduct UV testing at no charge to the NVC to answer the question – yes or no – “will UV dosing of the NVC primary effluent effectively inactivate fecal coliform and enterococci test organisms sufficiently enough to meet the NVC license effluent limits for its outfall?”

Drinking Water Department

June 2019 Usage and Water Quality

Purchased water for the month averaged 26,984 gpd compared to 33,517 gpd in 2018. The weekly free chlorine residual in the drinking water ranged from 0.16 - 0.20 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl². 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 negative. A May 13 test sample for nitrate nitrogen was .43 mg/l compared to the EPA MCL of 10 mg/l.

There were no leaks discovered or reported.