

NVC Utilities Committee
October Hearing & Trustee Meeting
Community Hall and by Zoom link
Friday, October 7, 2022
2:30 p.m.

Present: David Crofoot, Judy Metcalf, Jeffrey Wilt, Brady Brim-Deforest (by Zoom),
Richard McElhaney, Bill Paige

Absent: Casey Brown

Public Hearing

Public Hearing on extended Moratorium convened at 2:30 p.m.

Judy Metcalf led a discussion on the rationale for continuing the moratorium for an additional six months. The proposed moratorium would prohibit permits to be processed or approved for new connections to the sewer system. This provides time for the Village to study increased load on the sewer system. This expanded Moratorium runs from October 7, 2022 to April 6, 2023.

The Public Hearing adjourned at 2:59 p.m.

Utilities Trustees Meeting

The October meeting of the NVC Utilities Trustees convene at 3:00. Utilities chair, Jeffrey Wilt called the meeting to order.

Approval of minutes from the September 9, 2022 meeting was tabled to be considered at the November 11, 2022 meeting.

Moratorium: Judy Metcalf presented a motion to expand a moratorium that prohibits permits to be processed or approved for new connections to the sewer system for the period of October 7, 2022 to April 6, 2023. Motion was seconded by David Crofoot. The motion was adopted with yes votes from David Crofoot, Judy Metcalf, Jeffrey Wilt, Brady Brim-Deforest

Superintendent's Report: Richard McElhaney present his report for August and September (see attachment). The report highlighted continued pattern of exceedances in our wastewater testing. In August we had 3 exceedances for fecal coliform and 2 two exceedances for enterococci. The trend continued in September. We continue to work with the DEP, Maine Rural water as well as seeking advice from an outside engineering firm. It was suggested that Dick reach out to other communities with similar systems.

Sewer budget: The group review the proposed 2023 Wastewater Budget. The budget reflects increases associated with inflation, increased staff expense and increase chemical expense. The proposed budget is funded with a rate increase for wastewater costumers. The proposed rate

for the 2023 calendar year is \$300/trimester or \$900/ year. This compares to our current (2022) rate of \$263/trimester or \$789/ year.

Judy Metcalf moved adaption of the Wastewater (Sewer) 2023 budget, second by David Crofoot. The budget motion was adopted with yes votes from David Crofoot, Judy Metcalf, Jeffrey Wilt, Brady Brim-Deforest.

Water Budget: The group review the proposed 2023 Water Budget. The budget reflects increases associated with inflation and increased staff expense. We were reminded that any change in the rate charged to customers for water must be approved by the P.U.C.

Judy Metcalf moved adaption of the Wastewater (Sewer) 2023 budget, second by David Crofoot. The budget motion was adopted with yes votes from David Crofoot, Judy Metcalf, Jeffrey Wilt, Brady Brim-Deforest.

Both budgets will be passed on to the Overseers for action at their November 2022 meeting.

Other Business:

- Brady Brim-Deforest moved setting the Superintendent's credit card limit at \$5,000. Judy Metcalf seconded the motion. The motion was adopted with yes votes from David Crofoot, Judy Metcalf, Jeffrey Wilt, Brady Brim-Deforest. The increase reflects a limited necessary to purchase chemicals and testing equipment.
- Judy Metcalf reminded the Trustees and the NVC Treasurer that Distribution Officer should be charged to the Water Department (not the Sewer Department).
- Jeffrey Wilt suggested publishing meeting dates with on-line link through calendar year 2023.

The next meeting of the Trustees is scheduled for November 11, 2:30 p.m., Community Hall and on-line.

The meeting adjourned at 4:00 p.m.

Respectfully submitted,
Jeffrey Wilt, Chairman

Utility Department Monthly Operating Report

Sewer Department

August 2022 Effluent Monitoring Data

During the month of August operating period the NVC reported 3 exceedances for fecal coliform and 2 two exceedances for enterococci. See performance table below for further details of the regulatory monitoring data.

For September some exceedances for Total Residual Chlorine, Fecal Coliform and Enterococcus have been reported.

WWTP Monthly Performance Table

Parameters	August	July	June	YTD Lo	YTD Hi	YTD Ave	2021 Ave	DEP Limit	YTD Exceed- acnes
Flow GPD	15174	15205	9987	8763	30851	15344	20228	<63,000	0
Precip inches	2.87	2.57	2.13	1.43	7.95	3.96	4.96	n/a	0
TSS lbs/day	5.5	5.7	2.8	1.5	5.7	2.8	2.6	<76	0
TSS lbs max	5.8	8.6	3.7	2.6	8.6	4.1	5.1	report	0
TSS mg/l ave	43	38	29	7.4	43.0	23.7	26.1	<145	0
TSS mg/l max	56	39	37	8.9	56	30.9	37.5	report	0
TSS % removal	85.2	86.9	87.2	85.2	97.5	91.2	89.7	>50	0
BOD lbs/day	21.7	25.5	14.2	5.4	25.5	13.3	15.2	<107	0
BOD lbs max	28.4	43.9	23.1	8.2	43.9	22.1	26.9	report	0
BOD mg/l ave	172	170	148	62.3	172	112.6	140.1	<203	0
BOD mg/l max	220	200	160	56	220	146.6	161.6	report	0
BOD % removal	40.7	41.4	49	40.07	87.5	61.1	51.6	>30	0
pH low	6.5	6.5	6.4	6.4	6.5	6.5	6.5	>6.0	0
pH high	6.8	6.7	6.7	6.7	6.8	6.8	6.7	<9.0	0
St solids ml/l	0.2	0.2	0.2	0.1	0.2	0.1	0.15	report	0
TRC mg/l max	.03	.03	.03	0.02	0.03	0.028	.03	<0.3	0
Fecal cfu ave	36.4	21.38	<4	<4	36.4	<6.59	9.58	<14	2
Fecal cfu max	9680	3264	<4	<4	9680	<25.18	19.37	<31	3
Entero cfu ave	40.13	5.26	<4	<4	40.13	<7.4	10.8	<8	1
Entero cfu max	9680	12	<4	<4	9680	<38.91	26.9	<54	1
Hg ng/l ave	na	na	na	na	na	na	18.28	33.4	0
Hg ng/l max	na	na	na	na	na	na	7.0	50.1	0

Note: The last exceedance for flow was 195 months ago (2/2006). The last exceedance for BOD monthly average was 12 months ago (8/2021). The last exceedance for fecal coliform was 0 months ago (8/2022). The last exceedance for enterococci was 0 months ago (8/2022). The record annual average low for flow was 12,017 gpd in 2017.

Updated BOD Concentration Trend Charts

BOD weekly and monthly concentration trend charts are attached under separate cover.

Drinking Water Department

August 2022 Production and Water Quality.

Purchased water for the month averaged 43,830 gpd compared to 37,512 gpd for the same month in 2021. The weekly free chlorine residual in the drinking water ranged from 0.16 - 0.70 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 coliform and e-coli water sample test results were both negative.

Annual Disinfection By-products Water Test Results

Water samples collected at the Belfast Vault were taken on August 5, 2022 and hand delivered to the state HETL lab in Augusta for disinfection by-product testing. The water test result for Total Trihalomethanes was 9.4 parts per billion (ppb) versus the EPA maximum concentration level allowance of 80 ppb. For Total Haloacetic Acids, the water test result was 1.2 ppb versus an allowance amount of 60 ppb.

Disinfection by-products can form when chlorine reacts with organics in the water if any exists.

Sewer and Water Monthly Checking and Reserve Accounts

Attached under separate cover are the monthly checking account statements and trend chart balances for water and sewer.

2023 Water and Sewer Budgets

The Water and Sewer Budgets were redrafted to correct the 3-way split for the Office Personnel position and to increase the hourly wage from \$20.60 per hour to \$30 per hour for the Wastewater Collection System Operator and the Water Distribution Operator.

The pencil was also sharpened for the chlorination and de-chlorination chemical costs to reflect the most recent data collected. Finally, the line item for Effluent Testing now assumes once per week sampling instead of two for fecal coliform and enterococcus organisms in 2023 once Fern returns to work from his medical leave of absence.

The repair and maintenance line item in Sewer has been increased to reflect the need for a new refrigerated ISCO Sampler and a Honeywell recorder. The other option would be to pull assets from the reserve account now rather than making it a part of the 2023 annual operating budget.

Both proposed budgets were sent to committee members by email under separate cover for further review.

