

Northport Village Corporation

July 14, 2017

Utilities Meeting Minutes

Attendees:

Chairman: Dr. David Crofoot
Superintendent: Richard McElhaney
Village Agent: William Paige
Office Manager: Amy Eldridge

Utilities Board Members Present:

Judy Metcalf
Dick Brockway
Wendy Huntoon
Gordon Fuller

Visitors: None

Meeting Called to order: by David at 2:30 pm

Approval of Minutes: Judy M. moved to accept the minutes as amended, Wendy H. seconded the motion. 4 Approved, 0 Opposed, 0 abstained.

Financials:

David C. went over the Balance sheet for the Water and Sewer and then continued to review the P&L for Water and Sewer. A review of what was budgeted for Workers Compensation insurance is over budget for both water and sewer and they suggested budgeting higher next year. The same goes for Company Paid Benefits will need to be increase for both water and sewer next year.

Line item 6041 Hydrant Rentals and 6255 Building Community cleaning were areas that needed to be researched. The figures provided on the financials did not match actions already taken. Dick M. will work with Steve K to update these areas.

Visitor Concerns: None

Report of the Superintendent:

Dick M. went over the Superintendent report provided below. A discussion about the Water and Sewer capacity and the abilities for new customers. Dick M. went over options for new Hydrants. Possibly taking the currents hydrants and making them fully active. They would need to disconnect the fire pond from the water lines to accomplish this. Dick M. mentioned that they would have to pressure test the lines to look for any leaks. All of the hydrants are 6 inch lines except for the one down at the treatment plant which is 2 inch lines. They would be converting the hydrants from gravity flow to pressure.

Everyone was in agreement to put a hydrant at the top of Ruggles Park and then complete a study to see about converting 3 other hydrants from gravity feed to pressure. The Utilities dept. will continue the discussion once further information and studies are completed.

The village has 2 blow off valves, one is on Bluff Rd. and one is on Shore Rd. Dick M. would like to flush the blow off valves. Dick M. mentioned that it may cost around \$400.00 to flush the valves. Dick M. and Bill Paige will work to get that the valves flushed.

SUPERINTENDENT OF UTILITIES REPORT

July 14, 2017

Sewer Department

May 2017 Effluent Monitoring Data

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

May flow averaged 24,323 gpd compared to 7,668 gpd in 2016. Daily flow ranged from a low of 8,400 gpd to a high of 74,200 gpd during the month. Precipitation for the month was 7.05” versus 2.06” in 2016.

TSS and BOD⁵ averaged 1.0 lbs/day (9.0 mg/l) and 3.3 lbs/day (31.0 mg/l), respectively compared to 1.2 lbs/day (26.5 mg/l) and 4.8 lbs/day (102.5 mg/l) in April of 2016.

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 and fecal coliform (May thru Sept), daily for pH and settleable solids (S.S.), and twice per day for total residual chlorine (May thru Sept).

Monthly Performance Table

Parameters	May	April	March	YTD Lo	YTD Hi	YTD Ave	2016 Ave	DEP Monthly Limit	Exceedances
Flow GPD	24323	18900	9016	9016	24323	16487	14713	<63000	0
Precip Inches	7.05	3.46	2.07	2.07	7.05	4.16	3.53	n/a	0
TSS lbs/day	1.0	2.0	1.2	0.6	2.0	1.19	2.7	<76	0
TSS mg/l	9.0	9.2	12.4	5.7	17.8	10.8	26.8	<145	0
BOD ⁵ lbs/day	3.3	5.3	3.4	1.1	5.3	3.6	7.6	<107	0
BOD ⁵ mg/l	31.0	22.5	34.6	16.4	37.3	28.4	77.1	<203	0
TSS% Removal	96.9	96.8	95.7	93.9	98.0	96.3	90.5	>50	0
BOD% Removal	89.3	92.2	88.1	87.2	94.4	90.3	73.8	>30	0
pH lo	6.7	6.6	6.6	6.6	6.7	6.6	6.75	>6.0	0
pH Hi	7.0	7.0	6.9	6.9	7.1	7	6.98	<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	0.02	n/a	n/a	n/a	n/a	0.02	0.02	<.052	0
F Col/100 ml	<1	n/a	n/a	n/a	n/a	<1	<1	<15-ave	0
F Col/100 ml	<1	n/a	n/a	n/a	n/a	<1	<1	<50-max	0

Note: The last exceedance for flow was *133 months ago (2/2006)*. The last exceedance for fecal coliform was *54 months ago (8/2012)*. The last exceedance for BOD was *31 months ago (9/2014)*.

June 2017 Snapshot

The NVC WTP will be in full compliance with its license limits in June pending the DEP’s completed review of the NVC’s discharge monitoring report. Flow during the month averaged 9,940 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 2.51 inches.

Bi-annual MeDEP Inspection

Denise Behr, Compliance Inspector for the MeDEP has scheduled an inspection of the NVC's wastewater records, collection and treatment system. The on-site inspection will be on Friday, July 21, 2017 sometime after 10:30 am. Inspections of the NVC wastewater system have been reduced from once a year to now once every two-years.

Drinking Water Department

May 2017 Usage and Water Quality

Water consumption for March averaged 16,143 gpd compared to 18,265 gpd in 2016.

The average weekly chlorine residual in the drinking water was .21 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl². The EPA maximum concentration level (MCL) is 4.0 ppm. The monthly total and e-coli form water sample test results were negative.

Odor Complaint

The Water Department received a sulfur-like odor complaint from a customer near the dead end of the Shore Road water main. Bill Paige, DO responded to the call and after running their water for a short while and flushing the toilet a few times, the sulfur odor quickly dissipated. The customer had been away from their household for three weeks and noticed the odor upon their return – mostly from their toilet.

After querying other customers in the vicinity to determine if they might have noticed a similar odor, it became obvious to the water department staff that this and the other dead end water main on Bluff Road were in need of flushing. Since there are no fire hydrants on either leg of these two lines to use for flushing, the Department has ordered parts to attempt to convert the 2-inch blow-offs at both road ends for this use asap and in the future to start flushing these dead end water mains on a regular basis to keep the water fresh.

Dirigo Engineering Hydrant Flow Analysis

The Water Department has received the results of Dirigo Engineering's hydraulic analysis to calculate what the available flow rate for a fire hydrant might be from the water main in the Ruggles Park vicinity if one was installed. A copy of their letter analysis was forwarded to Board members under separate cover for their review.

Dick Brockway asked for and has also reviewed Dirigo's calculations to confirm the available flow rate of 750 - 785 gpm with a residual pressure of 20 - 23 psi. This means the NVC has a more than reasonable amount of flow and ample capacity to locate another hydrant in Ruggles Park if Board members were to choose.

The NVC Utility and Belfast Water District Superintendents have also discussed this project. No concerns with installing another fire hydrant were voiced by either party other than, as always, the need to reiterate to fire fighters not to overflow the capacity of the hydrant which would create a condition where very little water or pressure would be available to customers living in the higher areas of the system or beyond the hydrant. No amendment to the Interlocal Agreement between the NVC and BWD is necessary.

New Water and Sewer Customer

The NVC Water and Sewer Departments welcomed their 325th and 243rd customer respectively to their systems in June. The new service connections activated were for the "container building" construction on Lower Bluff Road.

Discussions:

Judy M. Moved to have Steve K. clarify the definition of Fixed Assets for greater understanding.
Wendy H. seconded the motion, 4 Approved, 0 Opposed, 0 Abstained.

Meeting Adjourned: at 3:55 p.m.

Next meeting is August 11, 2017 at 2:30 p.m.