



Notes meeting of Utilities Trustees:

11/10/17

Attendees: David Crofoot, Gordon Fuller, Judy Metcalf, Dick McElhaney, Bill Paige

Motion to Approve the Notes of the Meeting of 10/6/2017: Fuller moved/Metcalf seconded: ALL IN FAVOR

The Trustees reviewed financials:

Agreed that generally all in order (approximately 83% of expense as we approach 83% of the budget year expended)

A few questions arose concerning reports of income and expense, particularly on the water Performance v. Budget Report. JASM agreed to make inquiry of treasurer by email and report back.

SUPERINTENDENT'S REPORT NORTHPORT VILLAGE CORPORATION - UTILITIES DEPARTMENT

Utility Superintendent's Report

November 10, 2017

Sewer Department

September 2017 Effluent Monitoring Data

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

Flow averaged 5,160 gpd compared to 7,717 gpd in 2016. Daily flow ranged from a low of 3,300 gpd to a high of 10,500 gpd during the month. Precipitation for the month was 2.45" versus 2.30" in 2016.

TSS and BOD⁵ averaged 2.0 lbs/day (47.0 mg/l) and 3.0 lbs/day (73.3 mg/l), respectively compared to 2.8 lbs/day (48 mg/l) and 8.3 lbs/day (148 mg/l) in 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	September	August	July	YTD Lo	YTD Hi	YTD Ave	2016 Ave	DEP Monthly Limit	Exceed-ances
Flow GPD	5160	10361	12252	5160	24323	13479	14713	<63000	0
Precip Inches	2.45	1.95	1.24	1.24	7.05	3.21	3.53	n/a	0
TSS lbs/day	2.0	4.5	4.9	0.6	4.9	2.16	2.7	<76	0
TSS mg/l	47	55	52	5.7	55.0	26.6	26.8	<145	0
BOD ⁵ lbs/day	3.0	13.9	13.2	1.1	13.9	6.07	7.6	<107	0
BOD ⁵ mg/l	73.3	171.1	142.5	16.4	171.1	70.41	77.1	<203	0
TSS% Removal	83.8	81.0	82.1	81.0	98.0	91.6	90.2	>50	0
BOD% Removal	74.7	41.0	50.9	41.0	94.4	75.8	73.8	>30	0
pH lo	6.7	6.8	6.8	6.6	6.8	6.65	6.75	>6.0	0
pH Hi	7.1	7.1	7.1	6.9	7.1	7.03	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	0.02	0.02	.02	.02	0.02	0.02	<.052	0
F Col/100 ml	<1	<1	<1	<1	<1	<1	<1	<15-ave	0
F Col/100 ml	<1	<1	<1	<1	<1	<1	<1	<50-max	0

Note: The last exceedance for flow was *137 months ago (2/2006)*. The last exceedance for fecal coliform was *58 months ago (8/2012)*. The last exceedance for BOD was *35 months ago (9/2014)*.

October 2017 Snapshot

The NVC WTP is expected to be in full compliance with its license limits in October pending the DEP's completed review of the NVC's discharge monitoring report. Flow during the month will average 2,603 gpd. The report for precipitation as measured by the Belfast Water District (BWD) at their Little River Station was 4.22 inches of rain.

Drinking Water Department

September 2017 Usage and Water Quality

Water consumption for September averaged 27,689 gpd compared to 25,003 gpd in 2016.

The weekly free chlorine residual in the drinking water ranged from 0.10 - 0.16 ppm/Cl² compared to the recommended goal of >.20 to <1.0 ppm/Cl². The EPA maximum concentration level (MCL) not to be exceeded is 4.0 ppm. The monthly total and e-coli form water sample test results were negative.

Proposed Water and Sewer Budgets for 2018

A second draft of the water and sewer budgets for the 2018 fiscal year have been sent out to Board members under separate cover for further review and recommendations. Changes made to select line item amounts reflect those requested by the Board per the preceding Utility Committee meeting.

Extended Power Outage

A fast moving rain and gusting-to-70-mph windstorm knocked out power to the wastewater treatment system on Monday morning October 30, 2017. Massive outages in Northport and throughout the State of Maine also occurred. Nearly 500,000 power customers in Maine were left in the dark without power in the wake of this epic windstorm. Storm surges at high tide reached the top of the sea wall and causeway, and splashed against the entrance to the wastewater treatment plant control building, albeit with little damage.

By design, the automated emergency standby generator powered up the Shore Road pump stations throughout the outage and a portable generator was manually connected to the WTP control building to provide power for lights, flow measurements and daily effluent sampling. As there was no back up power available for the lab, Fernie was able to use the Belfast Sewer District lab to perform the NVC's required daily testing. Power to the lab, CH and the pump station was restored on Wednesday (2 days) and to the treatment plant on the following Saturday (5 days).

At the outset of the storm event, the Maine DEP's Denise Behr was apprised of the power outage and the NVC's implementation of its Emergency Response and Wet Weather Management Plans. No sanitary overflows or sewer backups were reported.

Per the usual, more kudos to Fernie Barton and Bill Paige for their skill, good judgment and dedication in "safely" responding to this storm emergency to secure infrastructure and to maintain compliance with wastewater permits and drinking water rules during this difficult and dangerous time.

Further Business:

The 2018 Draft Budgets were reviewed and adjusted to incorporate wage and employee benefits adjustments approved by the Overseers at their October Overseers meetings. All other items incorporated after review at October meeting of the Utilities Trustees found to be in order.

MOVED: Crofoot/Second: Fuller: to approve the water budget for 2018 and recommend to Overseers that it be adopted. ALL IN FAVOR.

MOVED: Crofoot/Second: Fuller: to approve the sewer budget for 2018 and recommend to Overseers that it be adopted. ALL IN FAVOR.

Dick and Bill reported on the examination and evaluation they have conducted on behalf of prospective Bluff Road Customer (Witt) for water service. This home is served by a dug well which in drought conditions tends to run out of water in later summer. Bill has reviewed with Dean Brown the project and he will report to Mrs. Witt that the estimated costs of connecting to the water line – exclusive of blasting for ledge – would be approximately \$16,000. Dick McElhaney has also discussed with Mrs. Witt whether engaging a well digger would be more economical for her in light of the anticipated estimate. Dick and Bill will report her decision at the next meeting.

The Trustees will move forward with the shifting of the trimesterly billing to move the workload of preparing the meter readings and bills away from the labor intensive time of meter removal and installation. Judy Metcalf will prepare a notice re: same for review and approval by the Trustees. The change of timing of the bills will of course not effect the amount charged per trimester for customers.

Move to Adjourn, Judy Metcalf.

Next meeting: January 12, 2018 at 2:30 p.m.

Adjourn: 4:00 p.m.