

**NVC UTILITIES MEETING
MINUTES
September 9, 2011**

Present: Committee Members: Judy Metcalf by phone, Denis Wang by phone , Dick Brockway; Ned Lightner; Chairman Dr. David Crofoot; Superintendent Dick McElhaney; Distribution Operator Bill Paige; Office Manager Paul Bartels.

The meeting was called to order by Dr. Crofoot at 2:30PM.

Dick Brockway nominated Dr. David Crofoot for Chairman of the Utilities Committee, seconded by Judy Metcalf – **Voted four in favor; Dr. Crofoot opposed**

Minutes

Dick Brockway moved to approve the minutes from the last meeting, seconded by Ned Lightner, **Voted – all in Favor.**

SUPERINTENDENT’S REPORT

Sewer Department

July 2011 Effluent Monitoring Data

The NVC was in full compliance with its wastewater discharge license in July. There were no license exceptions.

Monthly flow averaged 13,081 gpd compared to 16,065 gpd in July of 2010. Flow ranged from 11,200 to 16,000 gpd. Precipitation for this July was 1.73 inches compared to 3.47 inches in July of 2010.

TSS and BOD averaged 5.0 lbs/day (46.8 mg/l) and 15.5 lbs/day (144.5 mg/l), respectively.

See performance table below for this month’s comparisons, averages, year-to-date highs and lows, permit limits, and year-to-date violations.

Performance Table

Parameters	July	June	YTD Lo	YTD Hi	YTD Ave	2010 Ave	DEP Monthly Limit	Violations
Flow GPD	13081	8357	5394	42016	16370	17085	63000	0
Precip Inches	1.73	3.82	1.73	5.28	3.48	4.94	n/a	0
TSS lbs/d	5.0	2.5	.6	5.0	1.9	2.7	76	0
TSS mg/l	46.8	34	5.2	46.8	21	24.9	145	0
BOD lbs/d	15.5	5.5	1.1	15.5	5.3	6.6	107	0
BOD mg/l	144.5	78	14.3	144.5	52.0	59.4	203	0

TSS % Rem	83.9	88	83.9	98.2	91.9	91.0	50	0
BOD % Rem	50.2	73	50.2	95.1	81.7	79.0	30	0
pH lo	6.7	6.7	6.7	6.9	6.8	6.8	6.0	0
pH Hi	6.8	6.9	6.8	7.1	7	7.0	9.0	0
S.S. ml/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	Report	0
F Col/100 ml	<2.34	<1.52	<1	<2.34	<1.52	<1.6	15-ave	0
F Col/100 ml	<10	<4	<1	<10	<3.42	<2.9	50-max	0

Note: The last wastewater discharge license violation was *65 months ago (2/2006)* and for flow. No violation for pH, fecal coliform, TSS and/or BOD has occurred for *71 months (8/2005)*.

August 2011 Snapshot

The NVC Sewer Department was again in full compliance with its discharge license for the month of August. Flow averaged 18,097 gpd. The precipitation as measured by the BWD at the Little River Station was 6.72 inches.

Sewer Main Flushing Program/Septic Tank Cleaning

Given this summer's dry weather, heavy organic loadings on the sewer system, two reports of building drain back-ups and high and increasing BOD effluent concentrations for July, the Department initiated a sewer flushing program in August.

Piping in the old well house was modified to use the well water pump to flush the sewer mains in Area 2 (core) of the Village and then trucked in water from the fire protection pond on Bluff Road via one of the fire hydrants to flush sewer mains in Area 1 (north) and Area 3 (south) of the Village.

The Department also made an earlier than usual call to Moore's Septic on August 18, 2011 to decant one of the two active septic tank trains in an attempt to reduce effluent BOD concentrations and to expand/restore treatment capacity to better handle the increased usage of the system this summer. Findings at the time of the pumping that adult diapers had led to deviation of the split flow favoring flow into a single train led to a suggestion that the inflow manhole be periodically inspected and hosed out to prevent such flow deviation in the future.

Ocean Outfall Pipe/Septic Tank Repair Project

Dirigo Engineering reported that they would be sending the plans and specifications of the new outfall pipe to the NVC, USDA and DEP possibly by the end of the first week September. Once they get comments back they state that they will be able to advertise to prospective contractors. Dirigo is still confident in the November - April schedule and reports (at the NVC's request) they have also re-evaluated the hydrodynamic forces on the pipe in more detail, and will provide the NVC of their data.

Dirigo anticipates bidding the work by mid September and opening the bids in early to mid-October. This time frame should give the contractor ample time to secure materials and perform the work.

Revised Proposed Draft NPDES Permit

The NVC has received a revised draft proposal of the NPDES wastewater permit renewal. The revised draft incorporates the acute and chronic dilution factors of the new ocean outfall pipe design rather than the details of the existing outfall pipe. The existing permit with the existing outfall had a calculated acute (initial) dilution factor of 4:1 for the wastewater discharged into the bay. Based on the increased depth at the point of discharge, the revised draft proposal with the new outfall pipe has an initial dilution of 480:1. Accordingly, because of the very high dilutions of the new outfall pipe, the DEP has dropped the very expensive (\$3k-\$6k/yr) Whole Effluent Toxicity (WET) testing requirement that was included in the first draft proposal of the permit/license renewal.

Hurricane Irene

As Hurricane Irene a milder event than predicted along the mid-coast of Maine, the NVC treatment plant building was totally spared. Winds were high but largely from the south, seas typical and rainfall only 1.5 inches.

Annual DEP Inspection

The MDEP performed their annual inspection of the wastewater treatment system on August 5, 2011. A missing “no swimming sign” has been replaced and new “no swimming alarm” signs with an emergency pager number to call have been ordered for placement on the no swimming alarm located on the treatment plant building.

The DEP inspector also encouraged the NVC to consider installing an automated, flow paced disinfection system (with a chlorine analyzer) that would alarm if the chlorine residual were to fall below the set point. The current system only alarms if power is lost to the chemical feed pumps. Mr. McElhaney feels that this would require substantial modifications to our existing treatment station and that the amount we are expending on the extended outfall will achieve far more in terms of environmental protection.

Otherwise, the DEP inspector found everything in working order on the day of the inspection.

Water Department

July 2011 Usage and Water Quality

Water consumption during July averaged 46,459 gpd compared to 26,972 gpd in June and 42,479 gpd in July of 2010. The average weekly chlorine residual in the drinking water was .25 ppm compared to the recommended level of less than .2 ppm. The monthly coliform test result was negative.

New Water Customer

The Water Department will add a new customer to the distribution system in September. An existing residence at 450 Bluff Road is shutting down their well water system to convert over to public water.

Tri-annual Lead and Copper Test Results

The test results for lead and copper on the ten water samples collected by participating homeowners during the week ending August 5 have been received. The 90th percentile for lead was 2.9 ug/l and was well below the maximum contaminant level (MCL) of 15 ug/l. The 90th percentile for copper was .29 mg/l and well below the MCL of 1.3mg/l.

State and federal drinking water rules require public water systems to test for these two analytes every three years. Individual results will be shared with the participants and committee members shortly.

New Business

It came to the attention of Paul Bartels while computing a final bill for Larry Grindle of 753 Shore Road that he has not been billed or paid for sewer usage since 2004 when he acquired the house. Dick McElhaney and Paul calculated the cost for the past services rendered at \$3,294.00 and made Mr. Moser (lawyer for Larry Grindle whom is selling the property) aware of the situation and told him that we expect to get paid for the usage. Mr. Moser on Mr. Grindle's behalf offered \$800.00 to settle the matter and agreed to keep the full amount in escrow until he hears from the Utility Committee. Ned Lightner moved to tell Mr. Moser that we would accept \$1,647.00 to settle the matter, seconded by Judy Metcalf, **Voted all in favor.**

Harold Burbank has raised an issue about above surface water supply to his seasonal cottage. Dick McElhaney offered a solution and wrote him a letter outlining it, no reply has been received yet.

Dick Brockway expressed great concern about not having a final plan from Dirigo Engineering for the Outfall Project as yet. He pointed out that we have a limited window of opportunity to review and comment on the plans and every week we don't hear from them hurts our ability to get the job started within the allotted November to April project window.. By their own estimates we were supposed to put the project out for bid by mid September which is next week. Dick McElhaney said he would get in touch with Jim Lord and tell him that the Utility Committee is very concerned about how the project is progressing.

Financial Reports from Bill Cressey were circulated and discussed.

Adjourn

Next meeting scheduled for October 7th at 2:30 PM.

Judy Metcalf moved to adjourn at 3:30 PM, seconded by Dick Brockway, **Voted - all in favor.**

Submitted by Paul Bartels