

**NVC UTILITIES MEETING
MINUTES
October 7, 2011**

Present: Committee Members: Judy Metcalf by phone, Denis Wang by phone, Dick Brockway, Ned Lightner; Superintendent Dick McElhaney; Treasurer Bill Cressey; Office Manager Paul Bartels.

Absent: Chairman Dr. David Crofoot

The meeting was called to order by Dick Brockway at 2:40 PM.

Minutes

Ned Lightner moved to approve the minutes from the last meeting, seconded by Denis Wang, **Voted – majority in favor.**

Financials

Bill Cressey discussed the 2012 budgets and questioned the increased Professional Services account and how that would be covered. Dick McElhaney said the Sinking fund reserve would be reduced to cover new professional services, such as Aqua Maine. Dick had a 3% wage increase for employees and was told by the committee to increase it to 5% and put in a 5% increase for himself.

Bill Cressey reviewed employee salaries and how the value of employee benefits were calculated. Bill also asked Dick McElhaney to transfer \$10,000 from the water sinking fund reserve into the water checking account so that entity would not have to borrow from the General account next time the September water bond payment is due.

During the budget discussion Dick McElhaney said he would like to increase the building maintenance account in anticipation of replacing the Meter Building in 2013. He said the meter building is deteriorating and is not worth saving. He feels that we could utilize the three-quarters of vacant space in the lab building and combine it with the space needed for the meters into one building with some modification to the lab building.

Judy Metcalf moved; in light of getting close to the January 2012 due date of the Bond Anticipation Note, to extend the Bond Anticipation Note for an additional year, seconded by Ned Lightner – **Voted - majority approved.**

Denis Wang moved to transfer \$10,000 from the water reserve account to the water checking account, seconded by Ned Lightner, **Voted – majority approved.**

SUPERINTENDENT’S REPORT

Sewer Department

August 2011 Effluent Monitoring Data

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

Monthly flow averaged 18,097 gpd compared to 15,523 gpd in August of 2010. Flow ranged from 8,800 to 36,700 gpd. Precipitation for this August was 6.72 inches compared to 3.59 inches in August of 2010.

TSS and BOD averaged 7.9 lbs/day (54.8 mg/l) and 22.1 lbs/day (148 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	August	July	YTD Lo	YTD Hi	YTD Ave	2010 Ave	DEP Monthly Limit	Violations
Flow GPD	18097	13081	5394	42016	16586	17085	63000	0
Precip Inches	6.72	1.73	1.73	6.72	3.88	4.94	n/a	0
TSS lbs/d	7.9	5.0	.6	7.9	2.6	2.7	76	0
TSS mg/l	54.8	46.8	5.2	54.8	25.2	24.9	145	0
BOD lbs/d	22.1	15.5	1.1	22.1	7.4	6.6	107	0
BOD mg/l	148	144.5	14.3	148	64	59.4	203	0
TSS % Rem	81.1	83.9	81.1	98.2	90.5	91.0	50	0
BOD % Rem	49	50.2	49	95.1	77.6	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	6.8	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	<8.32	<2.34	<1	<8.32	<2.33	<1.6	15-ave	0
F Col/100 ml	50	<10	<1	50	<6.69	<2.9	50-max	0

Note: The last wastewater discharge license violation was **66 months ago (2/2006)** and for flow. No violation for pH, fecal coliform, TSS and/or BOD has occurred for **72 months (8/2005)**.

September 2011 Snapshot

The NVC Sewer Department was again in full compliance with its discharge license in September. Flow will average around 6900 gpd. Precipitation as measured by the BWD at the Little River Station was 2.62 inches.

Ocean Outfall Pipe/Septic Tank Repair Project

Dirigo Engineering reports they have approval of the final plans and contract documents for the ocean outfall pipe and tank repair project from all the review agencies including

USDA and will advertise for bids in the next edition of the Republican Journal. Dirigo also uses five contract advertising agencies and this is where most contractors learn about the projects they are bidding on. The bid opening is scheduled for October 28th at 1 pm in the NVC office. Bid acceptance will be requested of the Utility Committee and Overseers at their November meetings. The NVC anticipates completion of the project during the upcoming November 8 - April 9 construction season.

Recent comments from stakeholders to the pipe design have resulted in changes to the pipe's length and orientation. The pipe will run parallel and south of the pier and will now be shortened by 150 feet to 600 feet to reach the desired 40 feet of water at low tide. In previous designs and orientations, the new pipe followed the path of the current outfall pipe (southeast and away from the pier) and ran 750 feet in length to reach 40 feet of water.

Dirigo has also amended the size and number of the concrete anchors to sink and hold the new pipe in place and has added a third size to the concrete anchors for the portion of the pipe that will be buried underground.

On the negative side of effects, because the new outfall pipe discharges into deeper water than the current one, the potential to falsely elevate flow measurements will be increased whenever astronomical high tides, storm surges and heavy rainfall (I&I) occur simultaneously and consequently forces water to backup into the treatment plant.

(See Dick Brockway's white paper entitled "outfall comparisons" already submitted to you under separate cover for a more thorough and expert explanation of this phenomenon)

Current and future operating personnel will need to be alert to this "perfect storm" and factor out any significant false positives in flow measurement that could cause an erroneous report to DEP of a permit violation. Fortunately, the Department does not expect this effect to be a frequent occurrence.

The changes in the design of the new outfall pipe will not affect the calculations the DEP used to determine the new NVC dilution factors in the renewal of the wastewater discharge permit.

\$159,874 Bond Anticipation Note (BAN)

Because the installation of the new ocean outfall pipe will not be substantially complete (only \$24,000 of the BAN has been expended thus far) before the end of December to be able to close on the \$159,874 BAN with the Bangor Savings Bank, the USDA has advised the NVC to extend this note with BSB for another 12 months. Accordingly, this extension will mean that the loan with USDA to pay off the BSB note will be shortened to 28 years instead of 29 years and result in a small increase in the annual payment of the loan amount.

The BSB BAN for the loan portion of the \$600,000 outfall project would otherwise come due on January 14, 2012. Treasurer, Bill Cressey will be handling this extension request for the Sewer Department and the NVC to extend the closing date.

Chlorination/De-chlorination System

Fernie Barton has shut down the disinfection system ending another season of swimming and boating on the bay without incident or permit violation.

Sewer Permit Applications

The Sewer Department received two sewer applications for two projects in the village (Park Row; Bayview Park) last month to construct full concrete foundations. Both projects are already in motion and involve reconnecting their building drains to existing PVC sewer laterals. New laterals will not be required. Both projects require utility committee and overseers approval.

Water Department

August 2011 Usage and Water Quality

Water consumption during August averaged 40,621 gpd compared to 46,459 gpd in July and 43,585 gpd in August of 2010. The average weekly chlorine residual in the drinking water was .16 ppm compared to the recommended level of less than .2 ppm. The monthly coliform test result was negative.

Sewer Applications

Two new sewer applications were approved and presented to the Committee by Dick McElhaney. Judy Metcalf moved to approve the applications presented, seconded by Dick Brockway – **Voted and accepted.**

Discussions

Dick Brockway pointed out that the Overseers minutes from their August meeting stated that his term of service for the Utilities committee was one year when in fact it is two years. Paul Bartels said he would correct this and refile the minutes.

Dick also said we should review our Sewer Ordinance and Terms & Conditions so we could take advantage of any new water / sewer laws.

Adjourn

Next meeting scheduled for November 11th at 2:30 PM.

Judy Metcalf moved to adjourn at 3:55 PM, seconded by Dick Brockway, **Voted - all in favor.**

Submitted by Paul Bartels