

**NVC UTILITIES MEETING
NOTES
November 12, 2010**

Present: Committee Members: Judy Metcalf via telephone, Denis Wang via telephone, Dick Brockway via telephone, Ned Lightner; Chairman Dr. David Crofoot; Superintendent Dick McElhaney; Office Manager Paul Bartels.

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

Minutes

Judy Metcalf moved to approve the minutes from the last meeting, seconded by Ned Lightner, **Voted – 4 in Favor, 1 abstained.**

Financials

The Financial reports provided by Bill Cressey were reviewed. After discussing several line items Dick McElhaney said that the sewer budget seems to be in line but the water budget is tight and over for line 6115 which the Overseers may want to address at their next meeting.

SUPERINTENDENT’S REPORT

Sewer Department

September 2010 Effluent Monitoring Data

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

Flow averaged 14,410 gpd compared to 8,213 gpd in September of 2009. Daily flow ranged from a low of 4,500 to a high of 99,600. Precipitation for September 2010 was 6.47 inches compared to just 1.94 inches in September of 2009.

TSS and BOD averaged 2.3 lbs/day (36 mg/l) and 5.4 lbs/day (86 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	September	August	YTD Lo	YTD Hi	YTD Ave	2009 Ave	DEP Monthly Limit	Violations
Flow GPD	11410	15523	7226	37500	15648	22300	63000	0

Precip Inches	6.47	3.59	1.72	8.12	4.64	4.98	n/a	0
TSS lbs/d	2.3	7.4	.7	7.4	2.87	2.3	76	0
TSS mg/l	36	57.8	8.3	57.8	27.7	18.9	145	0
BOD lbs/d	5.4	22.7	1.6	22.7	7.6	5.6	107	0
BOD mg/l	86	177.5	23.3	177.5	68.2	47.4	203	0
TSS % Rem	88	80	80	97	90.0	93.4	50	0
BOD % Rem	70	39	39	92	75.8	84.6	30	0
pH lo	6.8	6.8	6.8	6.8	6.8	6.7	6.0	0
pH Hi	7.0	7.0	7.0	7.1	7.0	6.9	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	<1.3	<1.1	<2	<1.6		15-ave	0
F Col/100 ml	<4	<3	<2	<4	<2.9		50-max	0

Note: The last NVC Sewer Dept. violation was in February of 2006 and for flow. No violation for TSS and/or BOD has occurred since August of 2005.

October 2010 Snapshot

The NVC Sewer Department was again in full compliance with its discharge license in October. Flow was 14,477 gpd. Precipitation as measured by the BWD at the Little River Station was 7.2 inches.

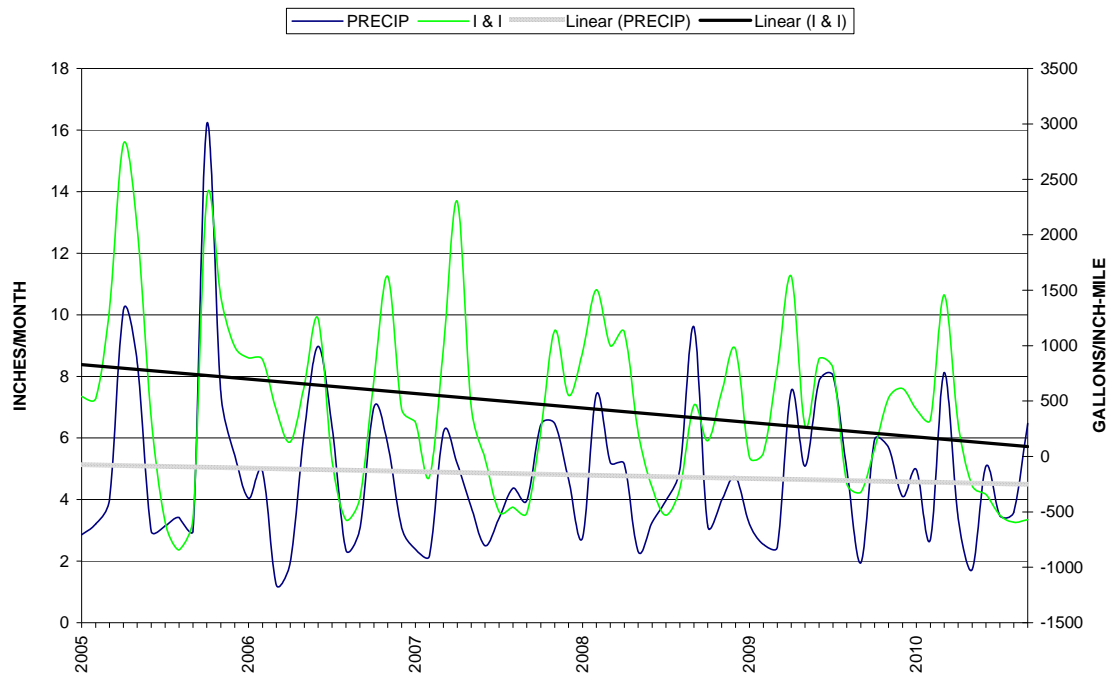
Dirigo Engineering Contract Agreement

The Department has received a contract agreement from Dirigo Engineering to do the design work for the replacement of the ocean outfall pipe. The contract covers party responsibilities and project costs equivalent to the original \$600,000 estimate. The NVC will need to review, sign and return the agreement to Dirigo before any further work on the project can commence.

Infiltration and Inflow Trends

Recent inquiries into the NVC's efforts to reduce infiltration and inflow compelled the Department to update its data base it uses to quantify and measure its reduction progress. See chart insert below. The standard engineering unit of measure for I&I is gpd/inch-mile. Using the last six years of monthly data, the amount of I&I has been reduced from 750 gpd/inch mile in 2005 to about 100 gpd/inch mile through September of 2010. This is well below generally accepted engineering levels or goals of less than 500 gpd/inch mile. As would be expected, the graph also shows good correlation between precipitation and I&I.

NVC MONTHLY AVERAGE INFILTRATION



Water Department

September 2010 Usage and Water Quality

Water consumption during September averaged 36,562 gpd compared to 43,585 gpd in August and 23,355 gpd in September of 2009. The large variance between September of this year and September of last year was due to a leak in a service water line to an off-Broadway Street cottage that was not found and stopped until October 30.

The average weekly chlorine residual in the drinking water was .05 ppm compared to the recommended level of less than .2 ppm. The monthly coliform test result was negative.

Discussions

I&I report: The Board discussed in depth the report on I&I being prepared by Dick Brockway. It was agreed that the report should incorporate a history of I&I remediation since the installation of the wastewater treatment plant in 1985.

Water leak: Dick McElhane reported on the water leak and how it was detected and the procedure for investigating future leaks. He estimated that the leak cost us between \$1500 to \$2000 since the leak was before the customer's meter.

Dick McElhaney announced that we received the Dirigo proposal for the design of the Outfall project. Judy Metcalf said she will review it.

Adjourn

Next meeting was scheduled for December 10, 2010 at 2:30 PM.

Ned Lightner moved to adjourn at 3:20 PM, seconded by Denis Wang, **Voted - all in favor.**

Submitted by Paul Bartels