

**NVC UTILITIES MEETING
MINUTES
May 10, 2013**

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

Visitors: Marge Brockway, Gordon Fuller.

Absent: Chairman David Crofoot .

Meeting came to order at 2:30 PM.

Minutes

Ned Lightner moved to approve the minutes from the last Utilities meetings, seconded by Dick Brockway – **Voted and approved.**

Visitors Concerns

Gordon Fuller expressed safety concerns about the new sewer access point in front of the Yacht Club building, it being raised above ground level. Bill E. Paige said they would fix that as soon as possible before the season starts. Gordon offered volunteers from the yacht club to help if necessary.

Financials

1. Financial reports were distributed.
2. Bill Cressey talked about the Annual Audit report and why the auditors provided a reconciliation report.
3. No new issues for the P & L.

SUPERINTENDENT'S REPORT

Sewer Department

March 2013 Effluent Monitoring Data

The NVC was in full compliance with its wastewater discharge license in March. There were no license exceedances.

March monthly flows averaged 14,635 gpd compared to 9,106 gpd in 2012 and 42,016 gpd in 2011. Daily flow ranged from a low of 5,800 gpd to a high of 76,400 gpd. Rainfall during the month measured 1.32” versus 1.49” in 2012 and 4.73” in 2011.

TSS and BOD⁵ averaged 2.0 lbs/day (10.4 mg/l) and 4.0 lbs/day (20 mg/l), respectively compared to .8 lbs/day (14 mg/l) and 3.1 lbs/day (53.8 mg/l) in February of 2012.

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, and twice per day for total residual chlorine (May thru Sept).

Performance Table

Parameters	March	February	YTD Lo	YTD Hi	YTD Ave	2012 Ave	DEP Monthly Limit	Exceed-ances
Flow GPD	14635	6089	4047	14635	8257	11004	<63000	0
Precip Inches	1.32	3.29	.86	3.29	1.84	3.87	n/a	0
TSS lbs/day	2.0	0.4	.4	2.0	1.1	2.7	<76	0
TSS mg/l	10.4	9.7	9.7	23.8	14.7	26.4	<145	0
BOD ⁵ lbs/day	4.0	1.2	1.2	4.0	2.3	7.8	<107	0
BOD ⁵ mg/l	20	27	20	56.8	34.6	77.6	<203	0
TSS% Removal	96.4	96.7	91.8	96.7	94.9	90.6	>50	0
BOD% Removal	93.1	90.7	80.4	93.1	88.1	74.0	>30	0
pH lo	6.7	6.7	6.7	6.7	6.8	6.7	>6.0	0
pH Hi	7.0	6.9	6.9	7.0	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
TRC mg/l	n/a	n/a	n/a	n/a	n/a	.02	<.052	0
F Col/100 ml	n/a	n/a	n/a	n/a	n/a	<4.4	<15-ave	0
F Col/100 ml	n/a	n/a	n/a	n/a	n/a	<11.4	<50-max	0

Note: The last exceedance for flow was **84 months ago (2/2006)**. No exceedance for pH, TRC, TSS and BOD⁵ has occurred for **90 months (8/2005)**. The last exceedance for fecal coliform was **7 months ago (8/2012)**.

April 2013 Snapshot

The NVC Sewer Department was in full compliance with its discharge license in April. Flow during the month averaged 8,250 gpd. Precipitation as measured by the BWD at the Little River Station was 1.89 inches.

Sewer Improvement Projects (SIP)

PROJECT COST – \$600,000 (loan \$159,874 and grant \$440,126).

OUTFALL PIPE AND TANKS - Completed.

INTERIM BOND ANTICIPATION NOTE (BAN)/RD LOAN CLOSING – Completed.

COBE ROAD SEWER MAIN REPLACEMENT PROJECT – Completed

TREATMENT PLANT IMPROVEMENTS –Waiting for Sargent to complete the installation of the tidewater transducer.

RD GRANT – The undisbursed balance on the grant to completion holds at \$2,379.14

WARRANTY ITEMS – To be done this May: replacement of “no mooring” buoy and additional outfall pipe anchors.

Spring Tank Cleaning

Moore's Septic was in the village on May 3 to clean out the chlorine contact chamber, de-chlorination manhole and tanks No. 1 and No. 2 of the No. 3 train of four septic tanks. Last year's improvements to the treatment plant enabled the sewer department to direct the village's entire winter flow through just one train of septic tanks thus effectively cutting in half the spring time cost and amount of wastewater to be pumped out and disposed of. The invoice for this work has not been received yet, but the Department hopes to see at least a \$3000 savings from last year's spring time cost of \$6,900.

Seasonal Chlorination/De-chlorination Start-up

Fernie Barton, with the assistance of Billy, is presently preparing the start-up of the Chlorination/Dechlorination System for the upcoming swimming season. The NVC discharge permit requires chlorination/de-chlorination from May 15 to Oct 1 each year to protect public health. The department uses liquid sodium hypochlorite to kill disease causing bacteria (pathogens) and then de-chlorinates to remove residual chlorine using liquid sodium bisulfite to protect the aquatic life that might be sensitive to chlorine.

During the season, Fernie also takes grab samples twice per day to test for chlorine residual and then once per week for delivery to an off-site laboratory to test for fecal coliform (an indicator organism for potential pathogen presence) to further confirm that the disinfection of the effluent is fully complete.

Earlier last month, the cast iron manhole covers situated over the effluent end of the contact chlorine chamber and the de-chlorination manhole were replaced with lightweight composite material covers. The lighter covers provide for safer and easier access to these tanks for Fernie to take his hand-dipped grab samples for the weekly fecal coliform tests. The cast iron covers typically weigh 150 lbs compared to 25 lbs for composite material covers.

2012 Consumer Confidence Report CCR

The 2012 CCR and Water Quality Report will be ready for Paul to send out with this May's trimesterly billing.

Proposal to Conduct In-house Testing of Bio-chemical Oxygen Demand (BOD) and Total Suspended Solids (TSS)

The Utility Department has completed a preliminary investigation into the cost of conducting the weekly testing of BOD and TSS in-house versus the cost of using an outside testing lab.

The Department believes that at the current cost of using an outside lab for this testing, the NVC could save about \$1500 per year once the cost of purchasing the necessary lab equipment (mostly pre-owned) was paid for and including the extra couple of hours/week in labor and material costs to the Department.

The Sewer Department currently budgets \$4100/yr for off-site wastewater BOD, TSS and fecal coliform testing services and anticipates another round of price increases from the testing lab later next year. The Department would continue to use an outside lab to do the summer testing for fecal coliform.

Billy Paige, Distribution and Collection System Operator, has indicated a willingness to be trained for these new duties if the Board supports this proposed action.

NOTE: The Utility committee reviewed and agreed that this would be beneficial to the sewer department and approved moving ahead with Dick's proposal.

Water Department

March 2013 Usage and Water Quality

Water consumption during March averaged 10,369 gpd compared to 11,498 in 2012 and 12,191 in 2011.

The average weekly chlorine residual in the drinking water was .19 ppm/Cl² compared to the recommended level of >.20 to <1.0 ppm/Cl². The monthly coliform test result was negative. The annual test for Nitrate Nitrogen on a grab sample taken in April was 0.55 mg/l compared to the MCL of ≤10.0 mg/l.

Proposal to Replace the Lower Maple Street Water Main

Billy Paige is preparing estimates to replace the summer surface water main that extends from Broadway to the NVC Yacht Club with a year round deep water line. The line is currently ¾ inch galvanized pipe, badly rusted, and has been patched a half dozen times over the last two years, including twice this spring. It is presently leaking again.

The line serves one resident, the Yacht Club and then extends down to the Wharf for water use there. The resident has indicated a desire for a year round service if one was available and the Sewer Department would like to convert the water source of the recently repaired 2 inch fire hydrant at the treatment plant from pond water to public water to improve pressure.

If this proposal is approved by the Board, the Department would abandon the ¾ inch summer service line and replace it later this fall with a 2 inch deep water plastic line down to as far as the Yacht Club where it would then tie in to a 2 inch copper line. This 2 inch line currently serves the hydrant and is fed from the fire pond. The Yacht Club and Wharf would remain summer services.

NOTE: After much discussion about the constant repairs of the seasonal water line along Ruggles Park (which has been repaired twice this season already and would need to be replaced this year) the committee instructed Dick to replace the seasonal line with a deep water line. This is in keeping with the objective of replacing all seasonal water lines with deep water lines.

Adjourn

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

Ned Lightner moved to adjourn at 3:00 PM, seconded by Dick Brockway, **Voted - majority approved.**

Submitted by Paul Bartels