



Board of Directors
Beverly Beach Improvement Club
 Monthly Report of System Operation
Month: January 2019

For the month of January, the Beverly Beach Improvement Club water treatment system ran well. Monthly bacterial results met state DOH requirements.

The well production data suggested an unaccounted water loss of 17%, exceeding our target loss of less than 10%. Back calculation of the past several months usage by BBIC indicates that the well pump is over-reading by 16%. This has been confirmed by WWS by comparison of the rate of production with the rated pump capacity. Using the corrected well production, better estimates of flushing and backwash volumes and same-day readings of the user meters and well pump meter, the water loss for January is re-estimated to be 1.7%. This is well within our target loss of less than 10% and indicates that losses are minimal and within acceptable limits. We are also testing older hookup meters and doing leak detection to confirm our understanding of these estimates.

If the corrected results for the next two months remain at similar low quantities, then when we replace the well pump we will propose to also replace the well pump meter with a new calibrated digital meter and use those results in the future.

Production

<i>Based on Daily Log Sheets from 12/31/18 to 1/30/19</i>	Current Month 31 Days	Last Month 31 Days	Difference	Last Year Days	Difference
Total Production	181,070	174,430		185,840	
Daily Avg.	5,841	5,627	+4%	5,632	+4%
GPD/Home - 108	54	52	+4%	106	

Consumption based on 32 days 1/1/19 to 2/1/19	Well pump meter production	Corrected well production	Consumer hookup meters used	Backwash & Flushing usage	Unaccounted with well meter correction	% Difference (using corrected production)
gallons	181,100	152,124	134,108	15,440	2,576	1.7%

Miscellaneous

01/04- Replaced screen on reservoir out flow.

01/04- Took monthly well depth with sounder, well measured 230.43' static.

01/16- Collected monthly compliance bacteria sample.

01/16- Collected annual compliance nitrate sample.

01/18- Collected three investigative arsenic samples.

01/21- Took well depth with well depth probe, well measured 229.80' static

01/31- Total backwash for January was 3,370 gallons and total flushing was 12,070, for a total of 15,440.

Recommendations

- Continue to test and replace system meters as needed.