

# NORTH BEACH WATER DISTRICT

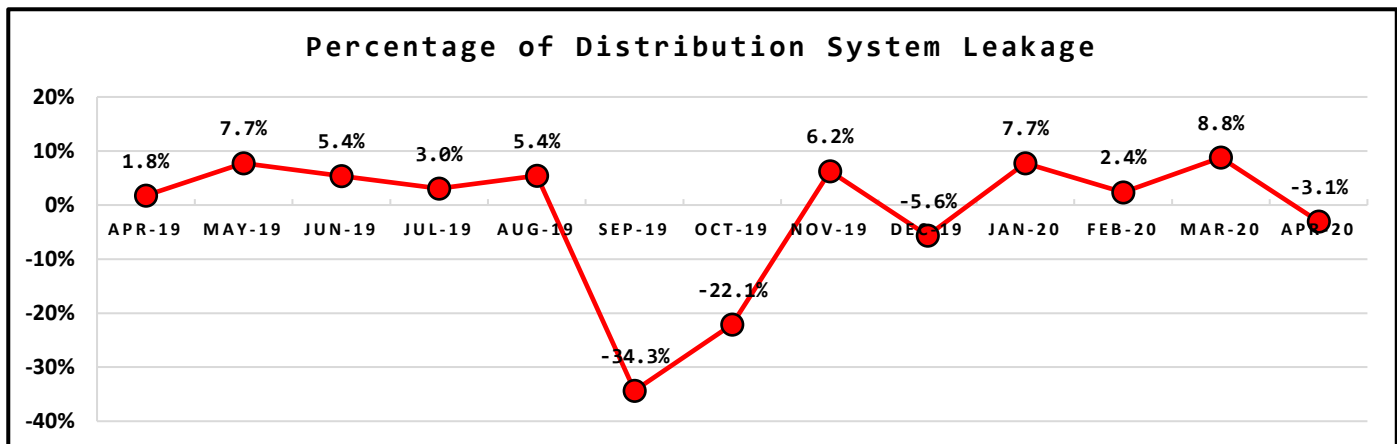
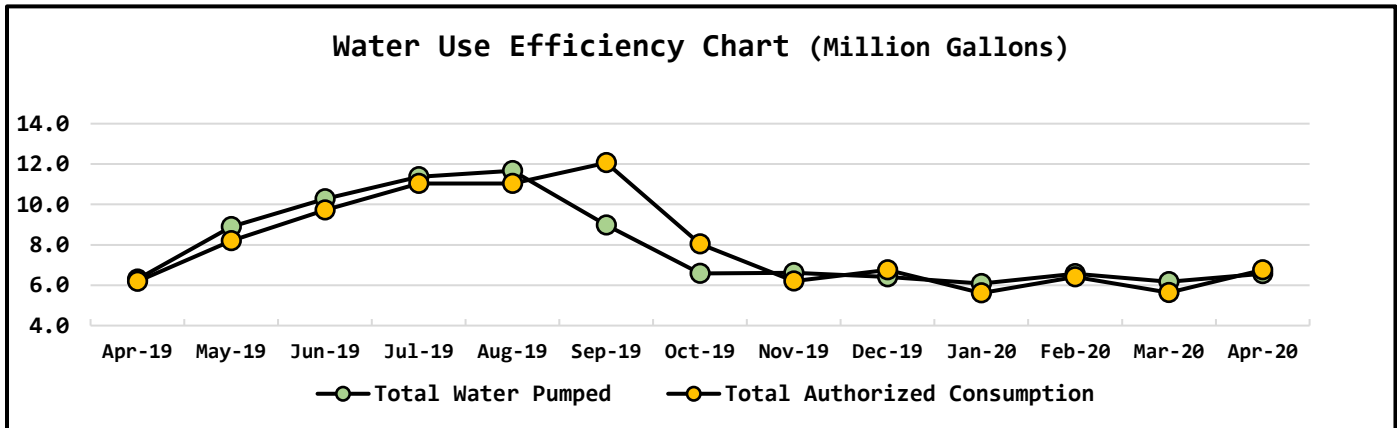
## GENERAL MANAGERS REPORT

FOR

May-2020

Metering Period	Water Production
April 1, 2020 to April 30, 2020	NWF Master Meter <u>2.7799</u> mg
	SWF Master Meter <u>3.7847</u> mg
	Total Water Pumped <u>6.5646</u> mg

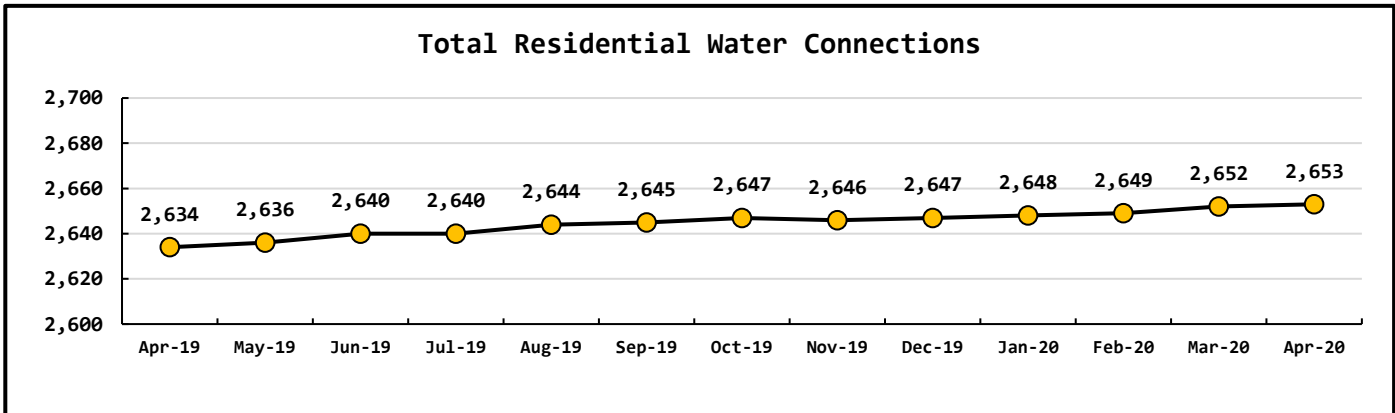
Metering Period	Water Consumption
April 1, 2020 to April 30, 2020	Total Water Sold <u>6.1590</u> mg
	NWF Backwash <u>0.0638</u> mg
	SWF Backwash <u>0.5369</u> mg
	Distribution Flushing, Fire Dept & Water use at NWF & SWF <u>0.0056</u> mg
	Total Authorized Consumption <u>6.7653</u> mg
	Distribution Leakage <u>-0.2007</u> mg
	Percent of DSL <u>-3.1%</u> %

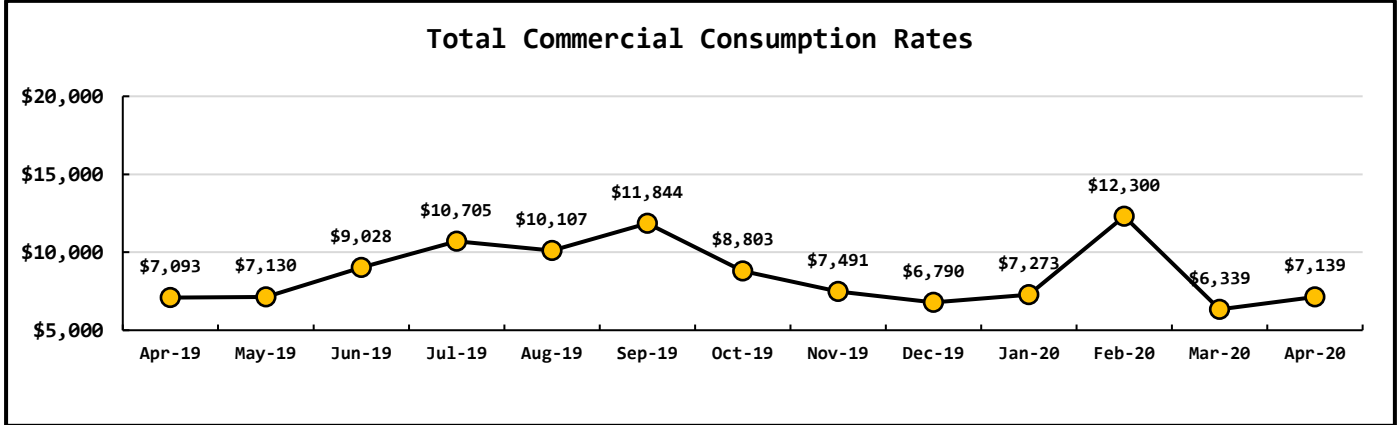
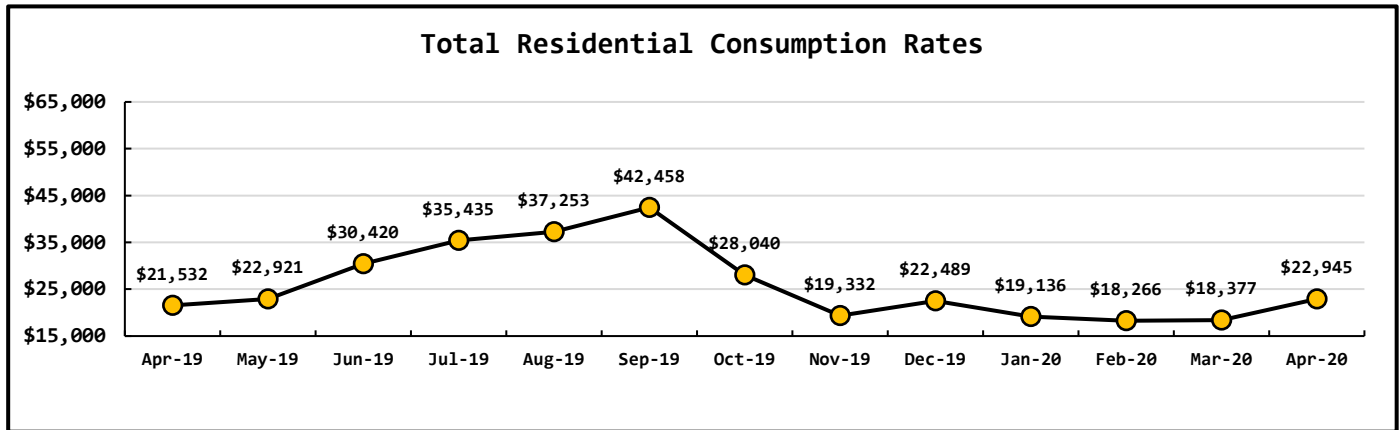
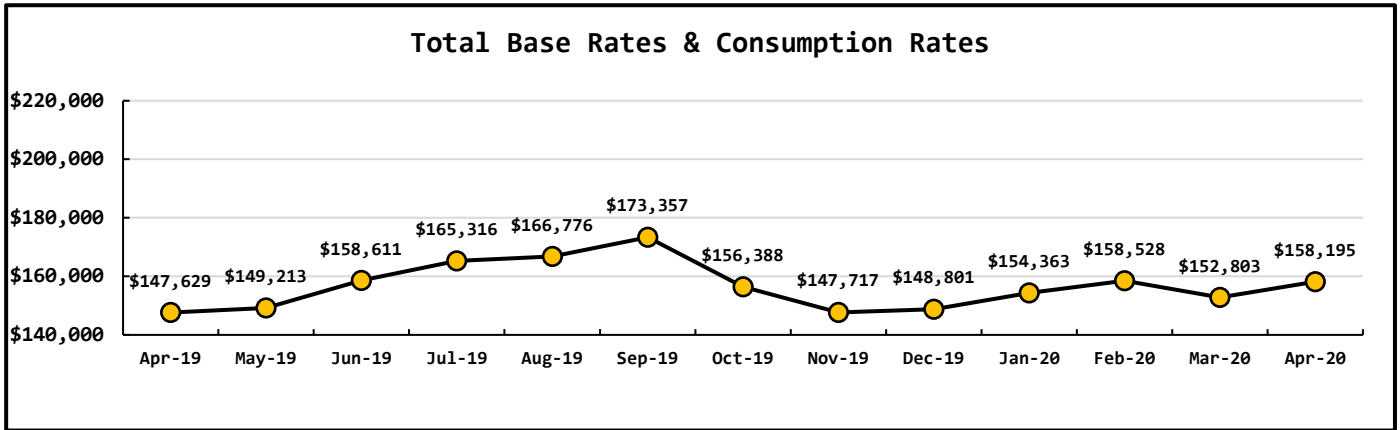


Data Period	Booster System Data		
April, 2020	North Wellfield Booster High	1019	<i>gpm</i>
	North Wellfield Booster Low	0	<i>gpm</i>
	North Wellfield Booster Average	66	<i>gpm</i>
	South Wellfield Booster High	1080	<i>gpm</i>
	South Wellfield Booster Low	0	<i>gpm</i>
	South Wellfield Booster Average	90	<i>gpm</i>
	North Wellfield Booster High	74	<i>psi</i>
	North Wellfield Booster Low	38	<i>psi</i>
	North Wellfield Booster Average	61	<i>psi</i>
	South Wellfield Booster High	74	<i>psi</i>
	South Wellfield Booster Low	37	<i>psi</i>
	South Wellfield Booster Average	62	<i>psi</i>

Data Period	Well Field Data		
April, 2020	North Wellfield Total	2.7799	<i>mg</i>
	South Wellfield Total	3.7847	<i>mg</i>

Data Period	Accounts Data			
April, 2020	Residential Base Rate		119,441 \$	
	Residential Consumption		22,945 \$	
	Commercial Base Rate		8,670 \$	
	Residential Accounts	2,653 <i>ea</i>	Commercial Consumption	7,139 \$
	Commercial Accounts	105 <i>ea</i>	Fire Flow Rate	1,108 \$
	Fire Flow Accounts	4 <i>ea</i>	Backflow Assembly Rates	188 \$
	Backflow Accounts	28 <i>ea</i>	Surfside Contract	0 \$
			Surfside Reimbursement	0 \$
			Other Fees & Charges	7,658 \$
			Total	167,149 \$





Data Period	Operations Data		
April, 2020	Past Due Accounts	294	<i>ea</i>
	Properties with Liens	29	<i>ea</i>
	Accounts Locked Off	0	<i>ea</i>
	Water Main Locates	24	<i>ea</i>
	Water Quality Complaints	0	<i>ea</i>
	Customer Service Calls	25	<i>ea</i>
	Customer Valves Installed	0	<i>ea</i>
	New Services Installed	0	<i>ea</i>

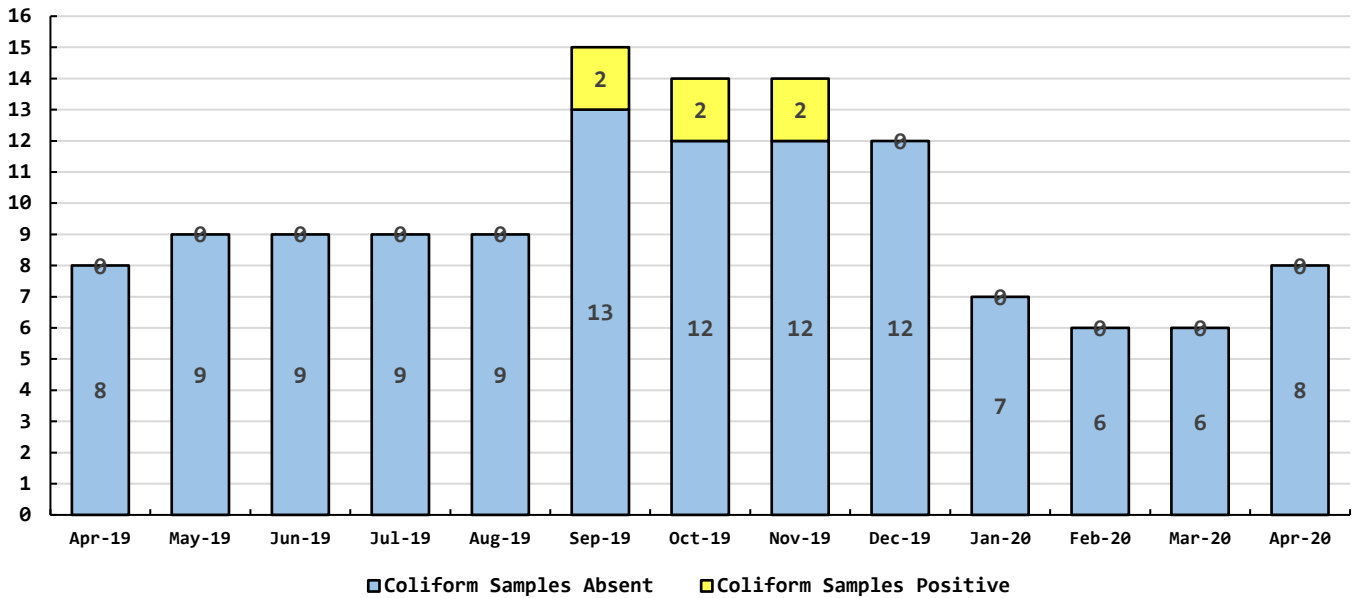
**Data Period**

**Water Quality Data**

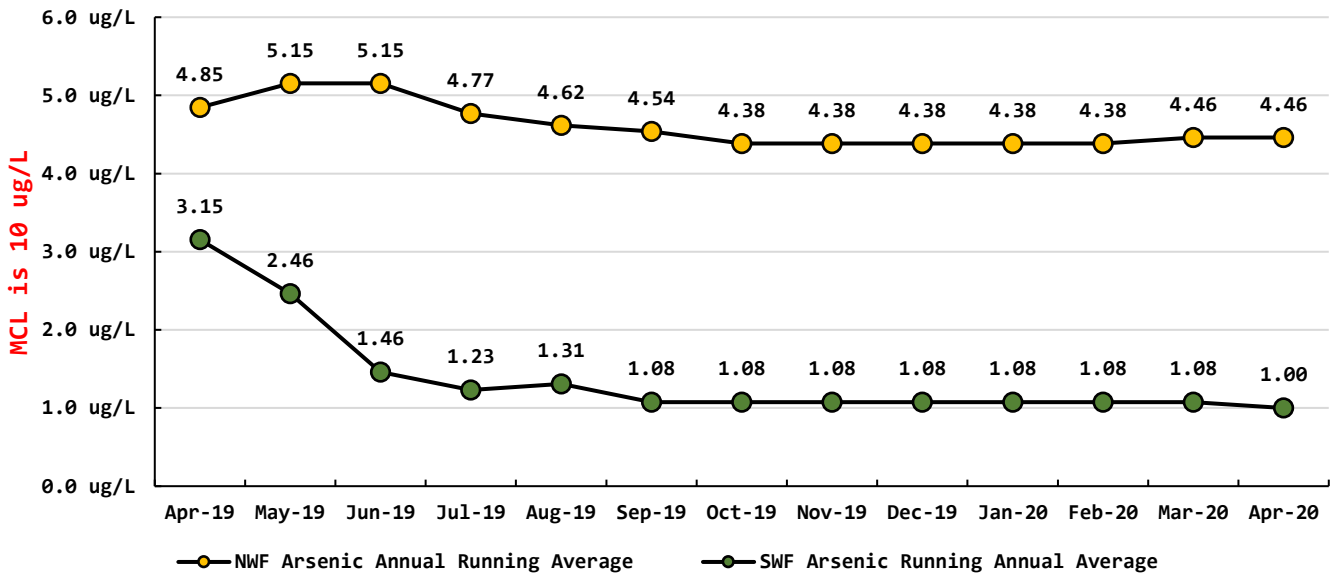
April, 2020

Coliform Samples Collected	8	ea
Coliform Samples Absent	8	ea
Coliform Samples Positive	0	ea
Coliform Sample Positive E. coli	0	ea
NWF Arsenic Annual Running Average	4.46	ug/L
SWF Arsenic Running Annual Average	1.00	ug/L

**Coliform Bacteria Samples**



**Arsenic Monthly Annual Average**  
micrograms per liter (ug/L)



Crew doing internal maintenance

#1. Installed a new shut off valve in backwash line. During an the installation the water couldn't be shut off.

We shut off the mains feeding the North & South feeds. Installed meter & installed a standpipe before the building for testing and also to provide water for customers during emergency situations.

We then tested it and found that the flow rate was at 32-33 gpm. We then installed a standpipe that was higher so we could get a larger barrel under it to test the outfall flow from backwash.

This was done twice to make sure that the results where right. Volume to fill 20 gallons (divided by) 37 seconds (time to fill) multiplied by 60 (seconds in a minute) equaled (=) 32.43243 GPM. Backwash rate of the 3150 Valve series = 's 95 gpm continuous flow, Peak flow 130 gpm, & max 100 gpm.

Bill & I discussed this matter and we both determined we had a spot that was necked down. We found that there were 3 places that the 4" line had been reduced to 2" then back up to 4" again & again. We cut out the 2- 2 inch taps which where closed down to  $\frac{3}{4}$  of an inch in both saddle taps. We installed a 8 x 4 (T) with a 4" gate valve. We replaced all the old pipe with 4" to make it a direct 4" run. We did leave the older 4" and installed pigs to clean out the accumulated build up which was about  $\frac{5}{8}$ 's of an inch all around the pipe. We have video of the 2<sup>nd</sup> run of pigs which shows the 3 pigs exiting in a slurry of mud.

With that complete we tested our meter and backed it up by doing a flow test of the backwash rate .

Volume to fill 20 gallons (divided by)

11 seconds (time to fill) multiplied by 60 (seconds in a minute) equaled (=) 109.0909 GPM. Backwash rate of the 3150 Valve series = 's 95 gpm continuous flow, Peak flow 130 gpm, & max 100 gpm.

This is where we want to be.

Next we started digging into the media of one vessel to see what they looked like and took measurements for depth of media, depth of garnet & free board in the filter vessels. Discussed with Bill and we both agreed that once we lanced them with a high pressure water wand that we would need to let them soak in a KMNO<sub>4</sub> bath for a couple of days then start the backwash and clean them up. Still working on this at this time. It is a very time consuming task. But worth the work.

#2. Raising and incasing all valves in the yard with concrete so they wont be buried again.

#3. Working on a couple of landscape projects.

#4. Bulk ferrous tank finally drained to day tank. Old container sent to recycling station.

#5. While looking for restrictions in the backwash line we found an old 6" PVC line was still plumbed into the tank piping. We cut it away from the backwash line. Doesn't provide enough pressure  $40\text{ft} \times 0.433 = 17.32$  psi. Not enough.

#6. Talked with David Glasson with Long Beach and they have finally have gotten some N95 masks and I picked them up on Friday the 17<sup>th</sup>.

A big thank you to City of Long Beach.