

SUPERINTENDENT'S REPORT FOR 2019

Kittery Water District (KWD) Consumers:

The 2019 construction season was another busy one for the KWD construction crew. We did not replace nearly as much water main as compared to other years; however, it was still a very busy season. In addition to doing some subcontracting work on Seward Farm Lane and Turkey Tail Lane, multiple road paving projects in Kittery, Eliot and York kept the crew occupied.

The following is a list of the improvements that were made to the District's system in 2019:

Improvements / Additions to the Distribution System:

	Asset Value
Deer Ridge Lane, Kittery Andrews Construction Company, Inc. and KWD installed 120 feet of 2" H.D.P.E. pipe and 3 services	\$ 5,204.00 *
Turkey Tail Lane, Kittery Andrews Construction Company, Inc. and KWD installed 642 feet of 6" D.I.C.L. pipe, 1 fire hydrant and 8 services	\$ 40,600.00 **
Seward Farm Lane, Kittery McKenna and Sons Construction and KWD installed 1,238 feet of 8" DR11 H.D.P.E. pipe, 1,042 feet of 4" DR11 H.D.P.E. pipe, 1 fire hydrant and 20 services	\$ 123,290.00 ***
Palmer Avenue, Kittery KWD installed 662 feet of 4" DR11 H.D.P.E. pipe (Abandoned 662 feet of 2" iron pipe)	\$ 65,302.00
Happy Avenue, Kittery KWD installed 19 feet of 2" DR11 H.D.P.E. pipe (Abandoned 108 feet of 2" iron pipe)	\$ 5,221.00
Sunshine Lane (Off Chauncey Creek Road, Kittery Point) KWD installed 25 feet of 2" DR11 H.D.P.E. pipe	\$ 4,620.00
Pheasant Lane, Eliot (Villages at Great Brook) Spring Hill Excavation and KWD installed 630 feet of 8" DR11 H.D.P.E. pipe, 1 fire hydrant and 16 services	\$ 57,457.00 ****
Ripley Road, Kittery Cantwell Construction installed 160 feet of 6" D.I.C.L. pipe, 27 feet of 4" D.I.C.L. pipe, 1 fire hydrant and renewed 2 services (Abandoned 255 feet of 1" copper)	\$ 14,715.00 *****
Town of Eliot KWD replaced fire hydrants #28-E, #38-E, #39-E, #60-E and #73-E	\$ 22,500.00
Town of Kittery KWD replaced fire hydrants #36-K and #96-K	\$ 9,000.00
Landmark Hill Square, Kittery Installed 2" fire protection lines for buildings 1, 2, 3, 4 and 5	\$ 10,000.00
286 U.S. Route One, Kittery Installed 4" fire protection line	\$ 5,000.00
Services - 62 new, 16 renewals	\$ 71,561.00
Meters - 60 new	\$ 21,858.00

* Contribution in aid of construction funds paid by the developer, Arthur W. Andrews, Revocable Trust, and contributed to KWD

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*** Contribution in aid of construction funds paid by the developer, Seward Family, and contributed to KWD

**** Contribution in aid of construction funds paid by the developer, SPL Development Group, LLC, and contributed to KWD

***** Contribution in aid of construction funds paid by the developer, 7-Eleven, and contributed to KWD

Miscellaneous Improvements:

Francis L. Hatch Filtration Plant Renovation Project

Phase two of this three phase project has been completed. Filter #1 renovations including a new traveling bridge complete with new backwash and wash water pumps have been installed. Both underdrain systems for filter #1 and filter #2 have been completely replaced and new media installed in the filter beds. Two new flocculators have been installed as well as a new loading dock. Electronic monitoring of both the bulk and day chemical tanks has been installed.

\$ 1,450,455.00

Old Beech Ridge Road, York Pumping Station Construction

Richardson Electrical has completed the majority of the electrical work for the station. In addition to installing the main electrical service, VFD cabinets and a generator transfer switch were also installed. This project is 75% complete.

\$ 35,731.00

Rogers Road Standpipe Maintenance

The exterior of the Rogers Road standpipe received a paint job while the interior of the standpipe was cleaned. This exterior maintenance coating system should last about 15 years before the next paint job is required.

\$ 326,000.00

Ammonium Sulfate Feed System

Much of the piping of the bulk tank has been completed as well as the placement of the chemical feed pumps and scale. This project has been abandoned as the Board of Trustees voted on June 13, 2019 not to change the secondary type of disinfection from free chlorine to chloramines. This equipment may be repurposed in the future.

92,786.00

Folly Pond Access Road Improvement Project

KWD and York Water District completed a joint access road improvement project, which will now allow full vehicle access from the Mountain Road access gate to the dike of Folly Pond and beyond. This is the final phase of this two phase project.

\$ 5,925.00

Meter Replacement and Meter Reading Technology Upgrade

Due to the age of our water meters, we have initiated a meter replacement program striving to replace 500 meters per year. In addition, the new meters are being installed with a radio receiver and transmitter that allows the meters to be read by a radio signal directly from the meter reading vehicle

\$ 84,796.00

Total

\$ 2,452,021.00

KWD (Kittery Water District)
H.D.P.E. (high density polyethylene)
C.I. (cast iron)
D.I.C.L. (ductile iron cement lined)

Cost of electricity to pump 1,077,528,000 gallons of water

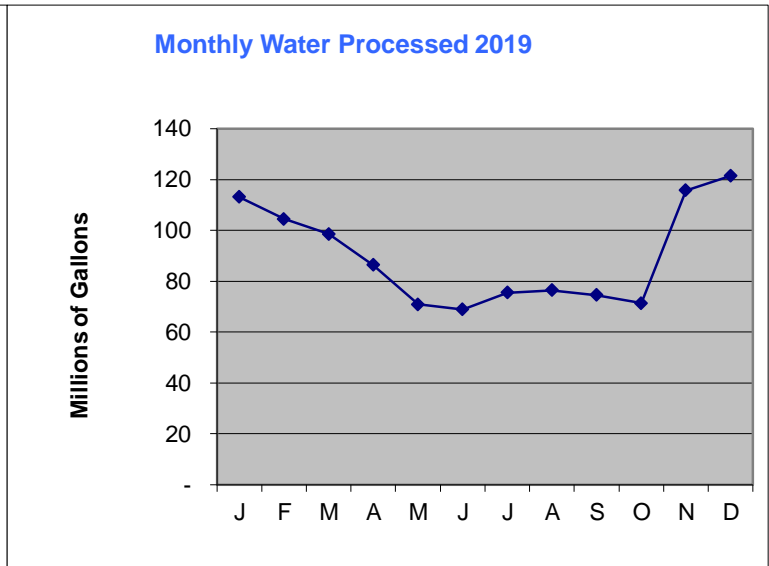
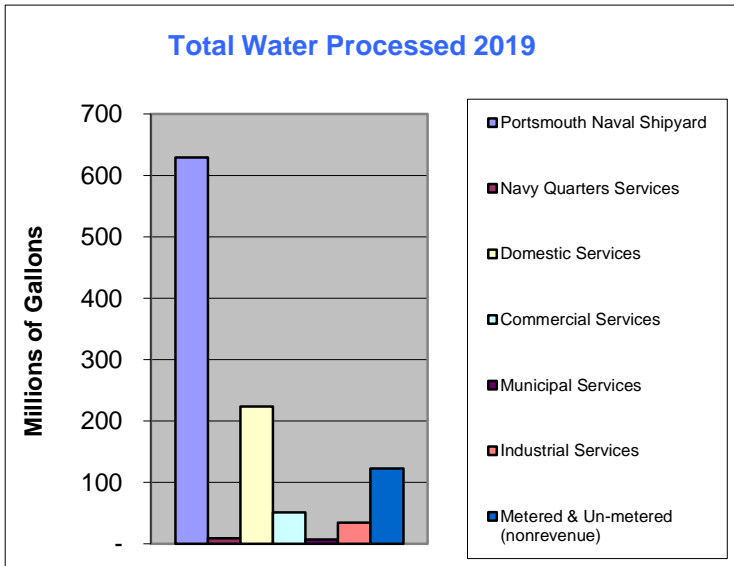
\$82,058.57

Water Processed in Gallons for the Year 2019

Navy Base	628,843,600
Navy Quarters-metered services	9,389,105
Metered domestic services	223,626,059
Metered commercial services	50,996,950
Metered municipal services	7,134,484
Metered industrial services	34,909,160
Metered & Un-metered (nonrevenue)	<u>122,628,642</u>
Total Water Processed	<u>1,077,528,000</u>
Average Daily Water Processed	2,952,132

Monthly Water Processed (gallons)

Jan	113,168,000
Feb	104,457,000
Mar	98,542,000
Apr	86,401,000
May	70,929,000
Jun	68,900,000
Jul	75,500,000
Aug	76,458,000
Sep	74,627,000
Oct	71,333,000
Nov	115,766,000
Dec	<u>121,447,000</u>
Total Water Processed	1,077,528,000



Respectfully submitted,

Michael S. Rogers

Michael S. Rogers
 Superintendent
 Kittery Water District