

## SUPERINTENDENT'S REPORT FOR 2017

### Kittery Water District (KWD) Consumers:

The 2017 construction season was a busy one for the KWD construction crew. In 2017, a total of 5,698 feet of water mains were installed; 2,838 feet of this was replacement mains and the remainder were main extensions.

The following is a list of the improvements that were made to the District's system in 2017:

### Improvements / Additions to the Distribution System:

	<b>Asset Value</b>
100 Shepards Cove, Kittery KWD and Mick Construction installed 250 feet of 4" H.D.P.E. pipe, 4 water services and four 2" fire protection lines	\$ 11,100.00 *
River Road, Eliot KWD installed 940 feet of 12" H.D.P.E. pipe, 1 fire hydrant and 3 services	\$ 84,414.00 **
Main Street, Eliot KWD and William Shapleigh and Son Construction installed 2,412 feet of 8" H.D.P.E. pipe, 140 feet of 8" D.I. pipe, 4 fire hydrants and 38 water services (Abandoned 2,400 feet of 6" C.I. pipe)	\$ 252,650.00
Pleasant Street, Eliot KWD installed 50 feet of 6" D.I. pipe (Abandoned 240 feet of 8" D.I. pipe)	\$ 4,950.00
School Street, Kittery KWD and JTI Construction installed 385 feet of 2" H.D.P.E. pipe and 4 services	\$ 15,785.00 ***
Dana Avenue, Kittery KWD and Brown Industrial Group installed 691 feet of 2" H.D.P.E. pipe and 30 services	\$ 53,512.00 ****
518 Route One, Kittery Severino Trucking, Inc. installed 554 feet of 8" D.I. pipe, 53 feet of 6" D.I. pipe, 1 fire hydrant and 11 services	\$ 60,093.00 *****
636 Haley Road, Kittery Point KWD installed 40 feet of 6" D.I. pipe	\$ 11,558.00 *****
Patten Place, Kittery KWD installed 376 feet of 4" H.D.P.E. pipe and 6 services	\$ 15,300.00
Town of Kittery KWD replaced fire hydrant #6-K with a 3 way model KWD replaced fire hydrant #256-K with a 3 way model	\$ 9,000.00
Town of Eliot KWD replaced fire hydrant #44-E with a 3 way model KWD replaced hydrant numbers 53-E, 54-E, 55-E and 57-E during the Main Street water main replacement project	\$ 4,500.00
Services - 84 new, 44 renewals	\$ 126,782.00
Meters - 79 new	\$ 40,798.00

- \* Contribution in aid of construction funds paid by the developer, Atlantic Realty, and contributed to KWD
- \*\* Contribution in aid of construction funds paid by the developer, Henry Ogilby & Joanne Francis, and contributed to KWD
- \*\*\* Contribution in aid of construction funds paid by the developer, 9 Main Street, LLC, and contributed to KWD
- \*\*\*\* Contribution in aid of construction funds paid by the developer, Dow Highway Properties, LLC, and contributed to KWD
- \*\*\*\*\* Contribution in aid of construction funds paid by the developer, Chinburg Builders, and contributed to KWD
- \*\*\*\*\* Contribution in aid of construction funds paid by the developer, Bethany Church, and contributed to KWD

**Miscellaneous Improvements:**

SCADA System Upgrade		
Wright-Pierce completed a design / build transformation from radio to cellular transmissions, upgraded product software, alarming software to smart phones and replaced all SCADA computers and monitors	\$	97,400.00
Replacement of the Filtration Plant Main Building Roof		
Hall Brothers Roofing installed a new rubber membrane roof for the building	\$	38,340.00
Replacement of the Filtration Plant Storage Building Roof		
Hall Brothers Roofing installed a new rubber membrane roof for the building	\$	4,200.00
Recoating of the Rogers Road Standpipe Dome		
Marcel A. Payeur, Inc. recoated the dome and the cable trays	\$	25,200.00
Dome Repairs and Pressure Washing of the Eliot Tank		
DN Tanks, Inc. repaired the concrete dome and pressure washed the dome and the exterior of the tank	\$	25,450.00
Filtration Plant Renovation Project		
Wright-Pierce has completed the engineering, plans, specifications and bidding for Phase 1 of the filtration plant renovation project to begin in 2018	\$	81,000.00
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	\$	<u>79,639.00</u>
	Total	<u>\$ 1,041,671.00</u>

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

Cost of electricity to pump 892,548,000 gallons of water

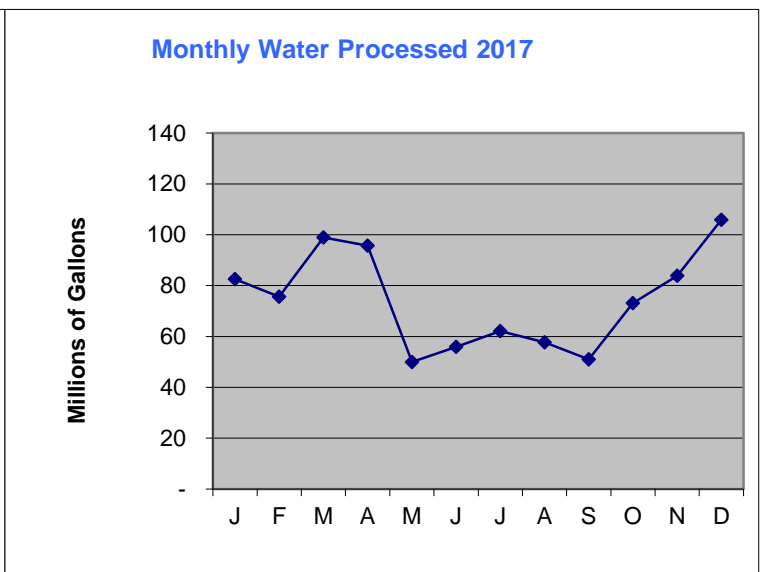
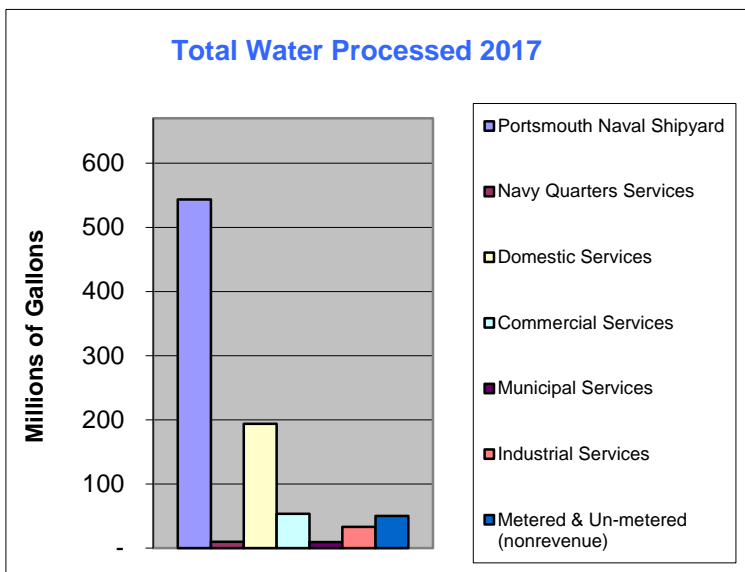
\$70,766.76

**Water Processed in Gallons for the Year 2017**

Navy Base	543,197,600
Navy Quarters-metered services	9,794,297
Metered domestic services	193,486,761
Metered commercial services	53,303,161
Metered municipal services	9,265,947
Metered industrial services	33,136,400
Metered & Un-metered (nonrevenue)	<u>50,363,834</u>
<b>Total Water Processed</b>	<b><u>892,548,000</u></b>
Average Daily Water Processed	2,445,337

**Monthly Water Processed (gallons)**

Jan	82,607,000
Feb	75,646,000
Mar	98,934,000
Apr	95,656,000
May	49,974,000
Jun	55,950,000
Jul	62,140,000
Aug	57,750,000
Sep	51,041,000
Oct	73,089,000
Nov	83,842,000
Dec	<u>105,919,000</u>
<b>Total Water Processed</b>	<b>892,548,000</b>



Respectfully submitted,

*Michael S. Rogers*

Michael S. Rogers  
 Superintendent  
 Kittery Water District