

SUPERINTENDENT'S REPORT FOR 2021

Kittery Water District (KWD) Consumers:

The 2021 construction season was a busy one for the KWD construction crew. Our efforts were mainly focused on replacing water mains on short, dead-end roads with 2-inch iron water mains that are prone to tuberculation, which degrades water quality and can also cause reduced pressure and volume.

The following is a list of the improvements that were made to the District's system in 2021:

Improvements / Additions to the Distribution System:

	Asset Value
Sunset Drive, Kittery	\$ 28,650.00
KWD installed 281 feet of 2" DR11 H.D.P.E. pipe (Abandoned 281 feet of 2" iron pipe)	
Ford Lane, Kittery	\$ 30,065.00
KWD installed 142 feet of 4" DR11 H.D.P.E. pipe (Abandoned 142 feet of 2" iron pipe)	
Hickory Lane, Eliot	\$ 42,678.00
KWD installed 350 feet of 4" DR11 H.D.P.E. pipe (Abandoned 345 feet of 2" iron pipe)	
Wildrose Lane, Eliot	\$ 17,070.00
KWD installed 140 feet of 2" H.D.P.E. pipe (Abandoned 182 feet of 1.5" iron pipe) (Abandoned 119 feet of 1" iron pipe)	
Libbey Lane, Eliot	\$ 54,125.00
KWD installed 496 feet of 4" DR11 H.D.P.E. pipe (Abandoned 403 feet of 2" iron pipe)	
Goodwin Road, Kittery Point	\$ 2,062.00
KWD installed 395 feet of 2" DR11 H.D.P.E pipe (Abandoned 395 feet of 2" PVC pipe)	
Malcolm Road, York	\$ 33,579.00
KWD installed 465 feet of 6" DR11 H.D.P.E Pipe (Abandoned 465 feet of 6" cast iron pipe)	
Litchfield Road & Skyview Drive, Kittery	\$ 117,800.00 *
McKenna & Sons Construction installed 654 feet of 8" DR11 H.D.P.E. pipe, 403 feet of 6" DR11 H.D.P.E. pipe and 1 fire hydrant.	
Summer Lane, Kittery	\$ 21,744.00 **
Riverview Contracting installed 440 feet of 2" DR11 H.D.P.E. Pipe	
Passamaquoddy Lane, Eliot	\$ 19,200.00 ***
Mick Construction installed 480 feet of 8" D.I. pipe and 2 fire hydrants	
Town of Eliot	\$ 4,500.00
KWD replaced fire hydrant #42-E	
Town of Kittery	\$ 13,500.00
KWD replaced fire hydrants #203-K, #143-K and #146-K	
Town of York	\$ 9,000.00
KWD replaced fire hydrants #31-Y and #33-Y	
Rice Public Library, Town of Kittery	\$ 9,935.00
Installed 4" fire protection line for Rice Public Library, Traip Avenue, Kittery	

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

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

*** Contribution in aid of construction funds paid by the developer, Estes Oil & Propane, and contributed to KWD

Services - 20 new, 25 renewals	\$ 54,885.70
Meters - 48 new	\$ 25,732.84

Miscellaneous Improvements:

Concrete repairs to the wing walls and spillway at the Bell Marsh Reservoir. This work was completed by Marston Industrial Services.	\$	13,158.00
Concrete repairs to the wing wall and spill way at the Upper Folly Pond Dam. This work was completed by Marston Industrial Services.	\$	47,572.00
<i>*A portion of this expense was from 2020. The invoice was not received until 2021 .</i>		
Replacement of distribution pump #2 at the Boulter Pond Pump Station. This work was completed by Williamson Pump and Motor Company.	\$	22,960.00
Replacement of the VFD for pump #2 at the Boulter Pond Pump Station. This work was completed by Stultz Electric.	\$	9,501.00
Replacement of Parco control cabinets and controls at the Boulter Pond Pump Station for pumps 1, 2 and 3. This work was completed by Stonkus Hydraulic.	\$	37,863.00
Continuation of work at the Old Beech Ridge Road, York Pump Station. This work was completed by Savage Builders.	\$	9,575.00
Maintenance to the Gravel Roadway to Upper Folly Dam	\$	16,295.00
Shapleigh and Son Construction was contracted to apply gravel and grade as much of the roadway to the Upper Folly dam that the budget would allow.		
Meter Replacement and Meter Reading Technology Upgrade	\$	41,830.61
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.		
		<hr/>
Total		\$ <u>683,281.15</u>

- 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 900,287,000 gallons of water

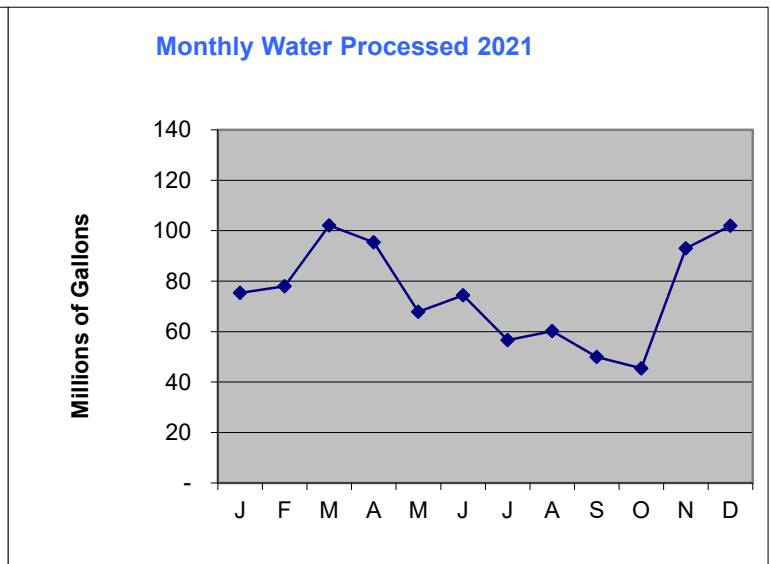
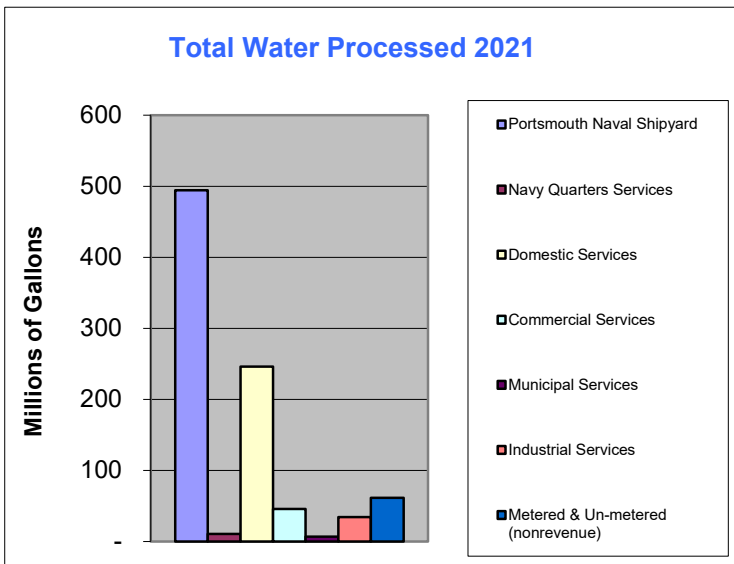
\$ 74,110.54

Water Processed in Gallons for the Year 2021

Navy Base	494,502,800
Navy Quarters-metered services	10,682,936
Metered domestic services	246,231,450
Metered commercial services	45,996,794
Metered municipal services	6,878,698
Metered industrial services	34,408,000
Metered & Un-metered (nonrevenue)	61,586,323
Total Water Processed	900,287,000
Average Daily Water Processed	2,466,540

Monthly Water Processed (gallons)

Jan	75,342,000
Feb	77,974,000
Mar	102,100,000
Apr	95,366,000
May	67,877,000
Jun	74,375,000
Jul	56,634,000
Aug	60,195,000
Sep	49,945,000
Oct	45,448,000
Nov	93,050,000
Dec	101,981,000
Total Water Processed	900,287,000



Respectfully submitted,

Michael S. Rogers

Michael S. Rogers
 Superintendent
 Kittery Water District