

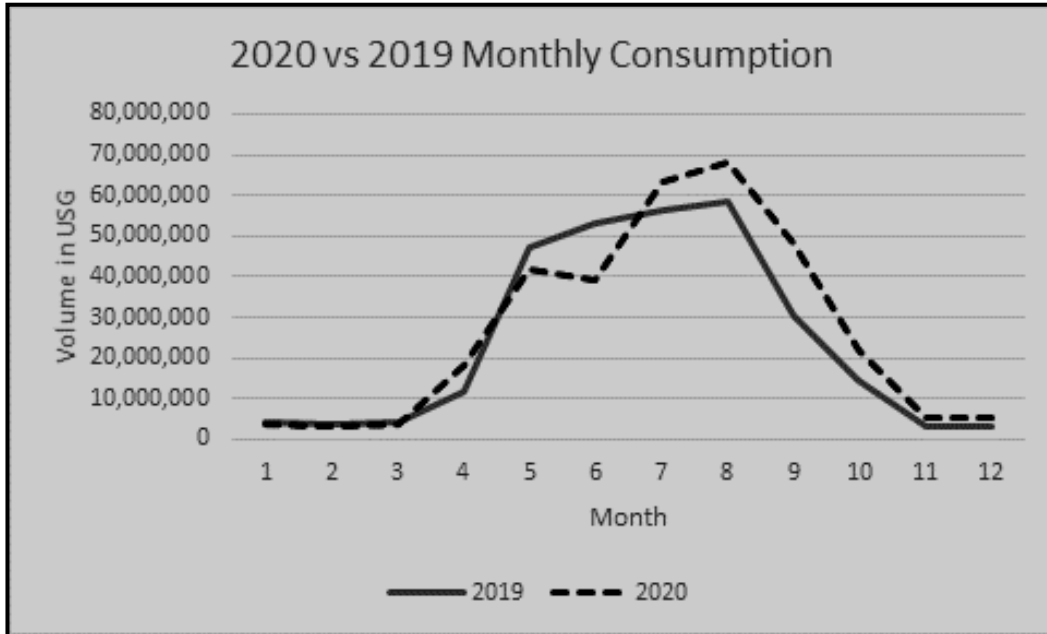
# KALEDEN IRRIGATION DISTRICT

## WATER QUALITY REPORT for 2020

QUANTITY OF WATER PUMPED 2020	288,936,861 U.S. GAL
MAXIMUM DAILY DEMAND (July 12 <sup>TH</sup> , 2020) 19)	3,177,980 U.S. GAL
MINIMUM DAILY DEMAND (January 11 <sup>th</sup> , 2020 )	00 U.S. GAL

2020 was an interesting year... with COVID restrictions it seemed more Kaledenites were at home, which resulted in a higher domestic demand. 41,396,289 U.S. Gal more were consumed than in 2019.

### 2020 vs 2019 Consumption



### Total Coliform and E-Coli Bacterial Testing Sample Locations:

KALEDEN POST OFFICE	11
PINEVIEW NORTH END	8
LINDEN SOUTH END	9
KALEDEN DISTRICT OFFICE	8
PUMPHOUSE	10
KALEDEN SCHOOL	1
UPPER CYPRESS	10
<b>TOTAL SAMPLES TAKEN</b>	<b>57</b>

There were no positive E-Coli samples.

### Trihalomethane Results:

	<u>100 Ash Ave.</u>	<u>621 Linden Ave.</u>
April 8 <sup>TH</sup> , 2020	0.0687 mg/L	0.0606 mg/L
May 28 <sup>th</sup> , 2020	0.0520 mg/L	0.0389 mg/L
Sept 8 <sup>th</sup> , 2020	0.0673 mg/L	0.0608 mg/L
November 25 <sup>th</sup> , 2020	0.1100 mg/L	0.0994 mg/L

*Guidelines for Canadian Drinking Water Quality maximum acceptable concentration is 0.1 mg/L*

**Distribution System vs Pumphouse Monthly Averages:**

MONTH	SYSTEM FREE CHLORINE RESIDUAL (mg/L)	PUMPHOUSE FREE CHLORINE RESIDUAL (mg/L)	SYSTEM TURBIDITY (NTU)	PUMPHOUSE TURBIDITY (NTU)
JAN	0.36	0.51	0.59	0.12
FEB	0.40	0.58	0.44	0.18
MAR	0.43	0.58	0.45	0.16
APR	0.55	0.59	0.75	0.14
MAY	0.39	0.98	0.59	0.21
JUNE	0.36	0.98	0.54	0.18
JULY	0.43	1.08	0.55	0.16
AUG	0.52	0.94	0.67	0.14
SEPT	0.55	0.83	0.59	0.14
OCT	0.43	0.73	0.64	0.11
NOV	0.37	0.74	0.39	0.12
DEC	0.53	0.62	0.43	0.15
YEARLY AVG	<b>0.45</b>	<b>0.77</b>	<b>0.56</b>	<b>0.15</b>

The District completes a Comprehensive Water Analysis every year either in the fall or the spring, as required by IHA. These results are available at the office and on our website listed below.

Pumphouse maintenance tasks included our annual pump and motor inspection and service. The District purchased a new pump in 2020 for our 125 HP motor that supplies the District water during non-irrigation season. Also, we have installed a new fiber-optic cable from the pumphouse control panel to the office monitoring computer system.

The Cypress booster station has had significant upgrades, including a new 10 HP pump, variable speed pump drive and relocation of plumbing components. This station is no longer considered a confined space.

The District will be continuing their Cross Connection Control Program; District staff will be completing backflow risk assessments throughout the community and inspections of current devices. District staff will also be providing customers with Pro-Flo vacuum breaker units that are installed directly onto any outside water tap or hose bib that does not currently comply with the BC plumbing code. There are only 500 units available ( free of charge ). Please contact the office for further info.

2020 data showed a dramatic increase in water consumption, potentially due to travel restrictions and minor leakage within the system. Please stay informed as to our current water conservation measures found on our website. District staff will be conducting routine patrols throughout the community again this season.

The Kaleden Irrigation District also welcomed Paul Oaks to its team in November of 2020; Paul and his wife relocated from the Kootenay's where Paul worked with the Regional District of East Kootenay for over 15 years. Paul is a fully certified Distribution Operator and also holds certification in Water Treatment. Markus Snair also returned to the team as our summer student. So if you happen to see either Paul or Markus out in the field, please take a moment to say hi!

If there are any questions or concerns, please feel free to contact the office on Monday, Wednesday, or Thursday mornings at 250-497-5407, send us an email at [k.i.d@shaw.ca](mailto:k.i.d@shaw.ca) or visit our website, [www.kaledenirrigation.org](http://www.kaledenirrigation.org)

We hope you have a safe, enjoyable summer!

Mike Snair,  
Operations Manager