

BBP Water Corporation 2020 Improvements

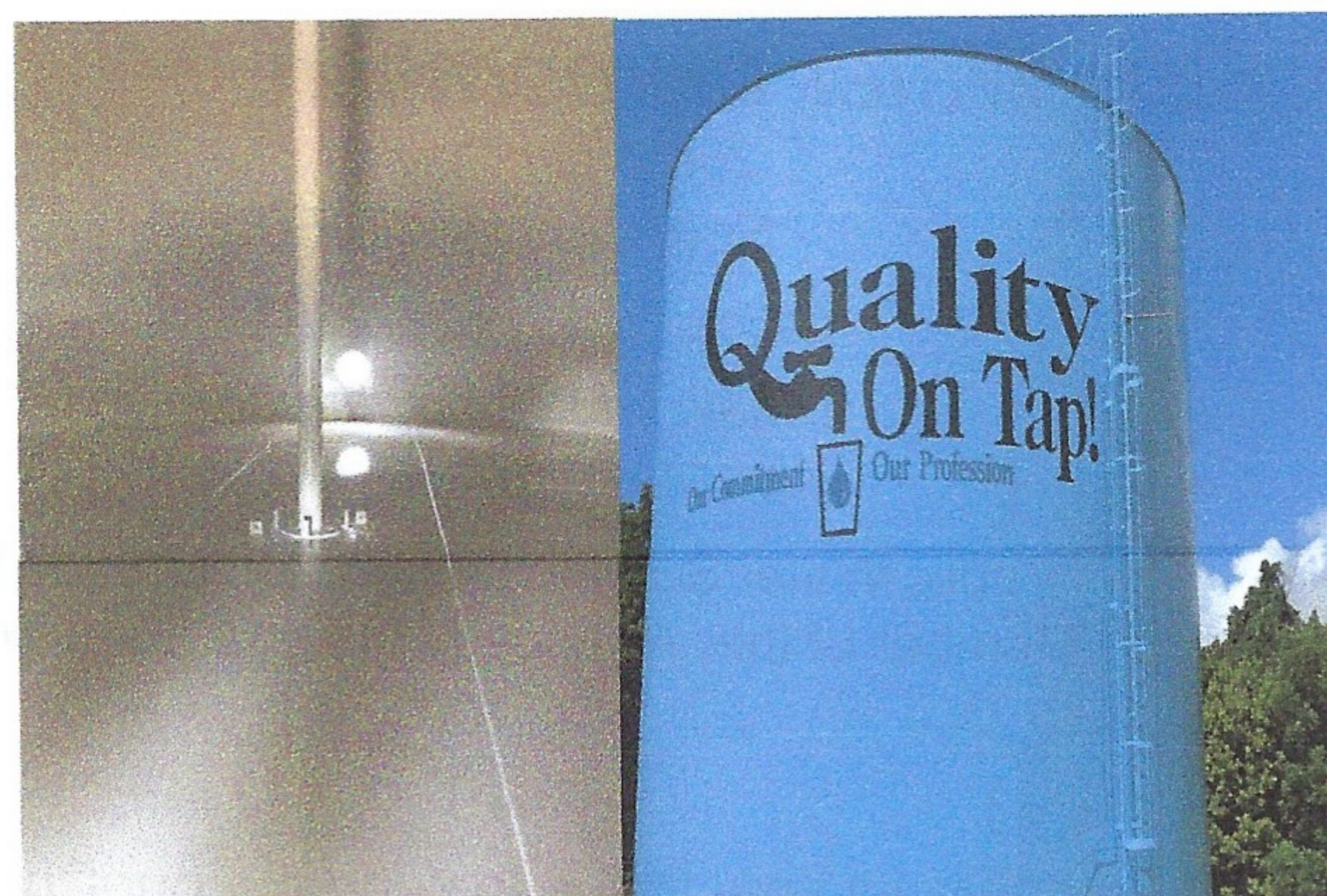
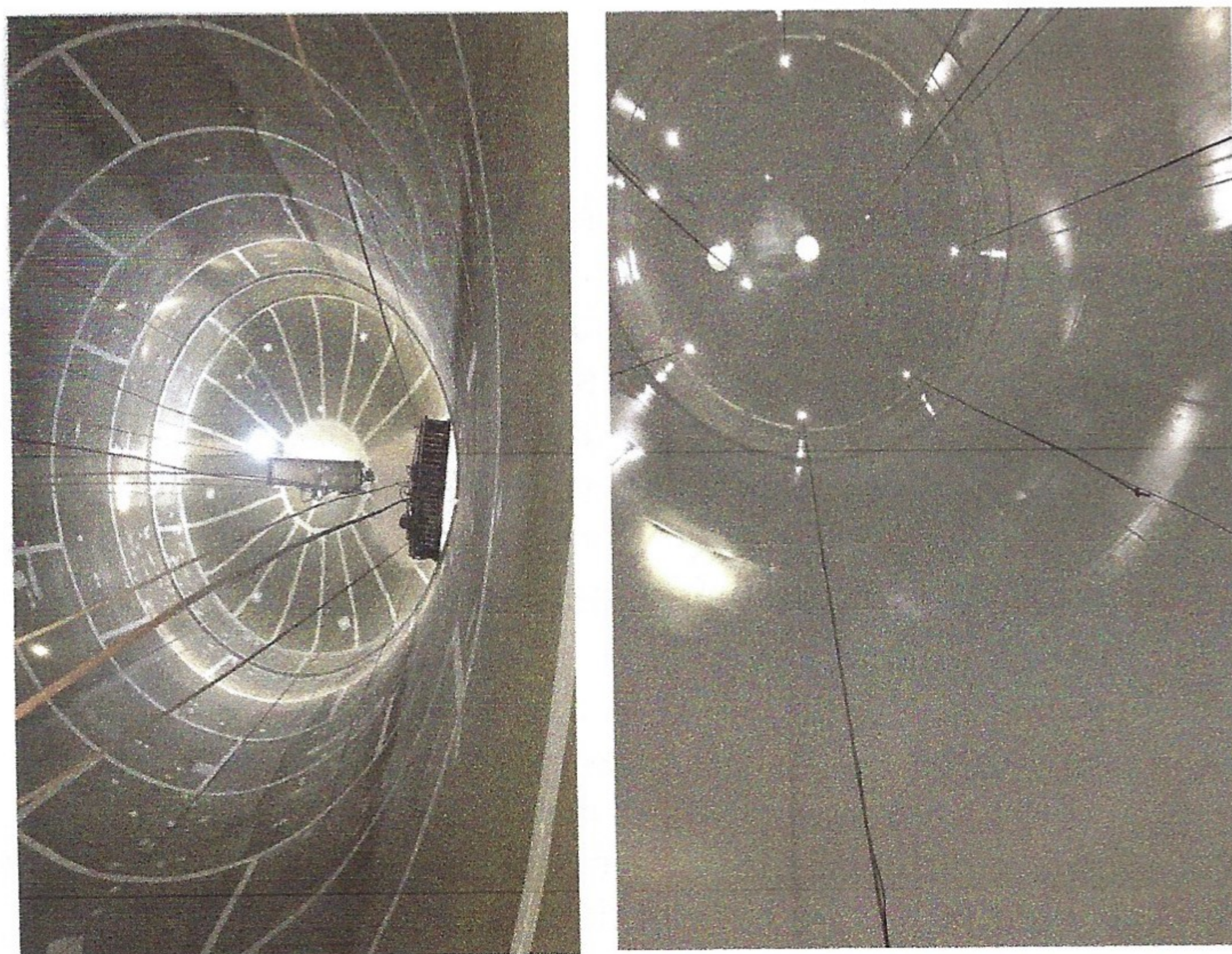
With age comes the need for investing and updating many of the water corporations assets. This year we had two water standpipes sandblasted and painted, during the process minor repairs were completed to keep the water towers in compliance with new safety standards. The water corporation also upgraded the line out of the water plant from a 6" to a 12" which will help us continue to meet the growth of the town and the rural residents we serve water to. BBP

Water has also upgraded the system that controls the water plant.

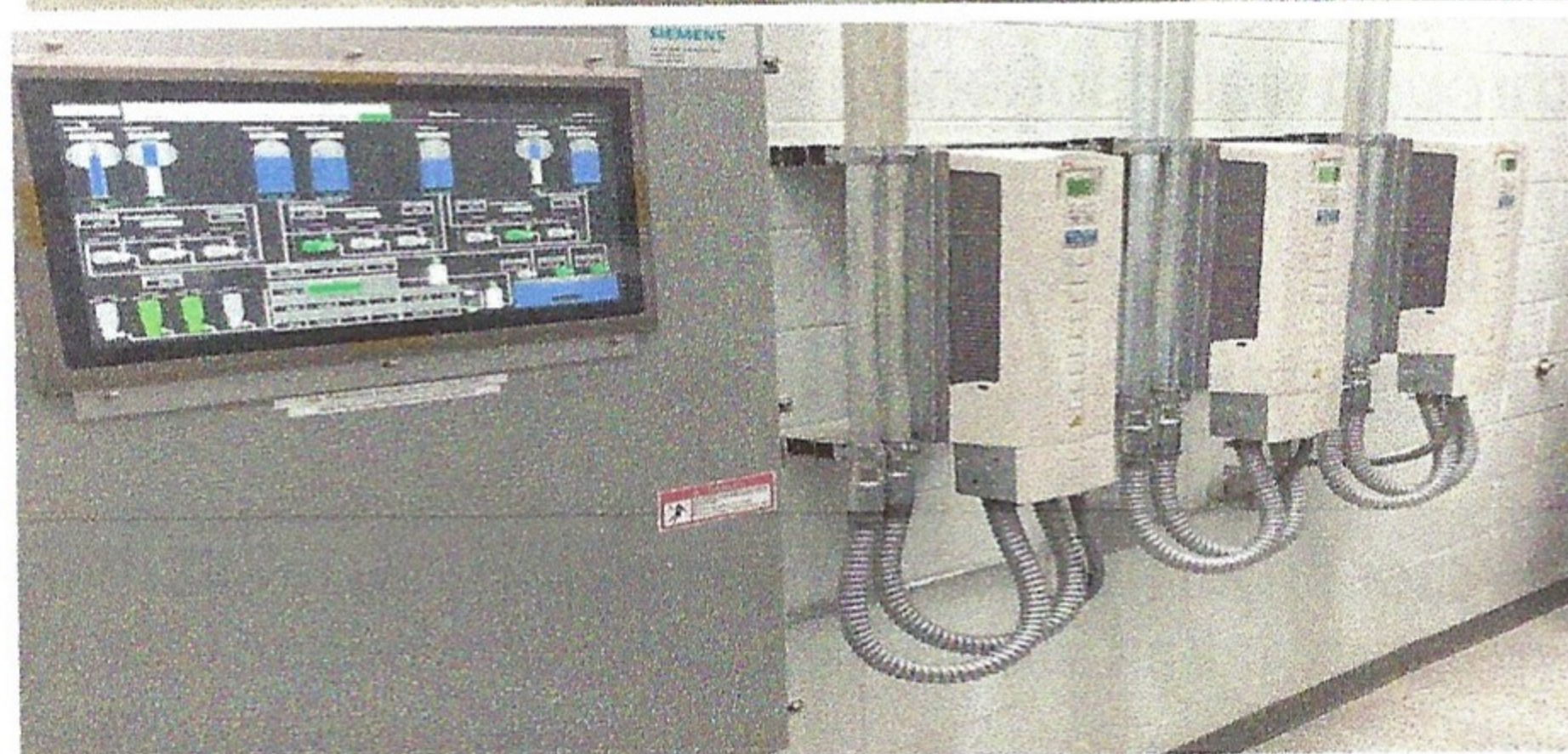
BBP Water Corporation is working hard to make sure we have the needed mix of good technology and quality infrastructure to move us into the future.

BBP rebuilds the three high surface water pumps, these pumps combined had pumped over 4.5 billion gallons of water and were in service from 2007-2020. During the process of rebuilding the water Pumps and the electric motors new Variable Frequency Drives were installed to help reduce the amount of electric consumed by the water corporation. These pumps run two at a time 15-17 hours a day and provide all the drinking water that goes to our consumer's taps.

Spencer Standpipe on Rocky Hill interior painting



Interior and exterior of Reeves Water standpipe after painting was completed summer of 2020



High Surface Water Pumps and Variable Frequency Pump Drives

BBP Water Corporation has been treating the water we deliver to our customers and those that visit our community for 49 years. BBP has a total of 6 wells that each pump between 400-1400 GPM. We maintain and make improvements regularly to these critical assets. We have a total of 8 water towers that can store over 3 million gallons of water, our treatment plant can produce over 2 million gallons of water a day, and in 2020 we averaged over a million gallons a day of water production.

2020 Water Quality Data Summary: The Water We Drink

Inorganic Contaminants										
Date	Contaminant	MCL	MCLG	Units	Results	Min	Max	Above AL	Violates	Likely Sources
Valid until 2023	Copper 90th % Value	1.3	1.3	ppm	0.064	0.023	0.092	0	N	Erosion of Natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
Valid until 2023	Lead 90th % Value	15	0	ppb	2.01	BDL	4.5	0	N	Corrosion of household plumbing systems; Erosion of natural deposits
6/24/20	Fluoride	4	4	ppm	0.1		0.1		N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Annual 2020	Nitrate measured as Nitrogen	10	10	ppm	2.12		2.12		N	Runoff from fertilizer use, leaching from septic tanks, sewage, erosion of natural deposits.
6/24/20	Arsenic	10	0	ppb	1.5		1.5		N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
6/24/20	Selenium	50	50	ppb	1		1		N	Discharge from petroleum and metal refineries; Erosion of natural deposits ; discharge from mines.
6/24/20	Barium	2	2	ppm	0.08		0.08		N	Discharge of drilling waste ;Discharge from metal refineries;Erosion of natural deposits

Disinfection By-Products										
Date	Contaminant	MCL	MCLG	Units	Results	Min	Max	Above AL	Violates	Likely Sources
2020	Haloacetic Acids (haa5)	60	No goal for the total	ppm	3.3	1.99	4.67		N	Erosion of Natrual deposits; Leaching from wood preservatives; Corrosion of household plumbing systems
2020	Total Trihalo-methanes (tthm)	80	No goal for the total	ppb	14.5	10.2	19.1		N	Corrosion of household plumbing systems; Erosion of natural deposits
2020	Chlorine	MRDL=4	MRDLG=4	ppm	1.0	0.44	1.34		N	Water additive used to control microbes

Radiological Contaminants										
Date	Contaminant	MCL	MCLG	Units	Results	Min	Max	Above AL	Violates	Likely Sources
2020	Gross Alpha excluding radon and uranium	15	0	pCi/L	1.1	NA	NA		N	Erosion of natrual deposits
2020	Radium 228	5 pCi/L	0	pCi/L	-0.22	NA	NA		N	Erosion of natural deposits

Unregulated Contaminates										
Date	Contaminant	MCL	MCLG	Units	Results	Min	Max	Above AL	Violates	Likely Sources
2020	Nickel	N/A	100	ug/l	BDL				N	Erosion of natrual deposits; Leaching
2020	Sodium	N/A		ug/l	130				N	Erosion of natural deposits; Leaching

Coliform Bacteria						
Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform of E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violates	Likely Sources of Contamination
0	Less than 5% of Total Tested	1	No Detects	None Detected	N	Naturally present in the environment

TOTAL COLIFORM SAMPLING - we are mandated by the state for the size of our system to take 120 routine samples . They were collected at locations throughout the water system in the year of 2020.