

Annual Water Quality Report for the period of January 1 to December 31, 2020

Disinfection Byproducts									
Collection Date	Disinfectants and Disinfection By-Products	Sample Site	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
2020	Total Haloacetic Acids (HAA5)*	DBP2-01	19	12.4-22.7	No goal for the total	60	ppb	N	By-product of drinking water chlorination.
2020	Total Haloacetic Acids (HAA5)*	DBP2-02	19	14.2-23.5	No goal for the total	60	ppb	N	By-product of drinking water chlorination.
2020	Total Haloacetic Acids (HAA5)*	DBP2-03	18	12.7-24.6	No goal for the total	60	ppb	N	By-product of drinking water chlorination.
2020	Total Haloacetic Acids (HAA5)*	DBP2-04	16	8.2-22.9	No goal for the total	60	ppb	N	By-product of drinking water chlorination.
The value in the Highest Level or Average Detected column is the highest average of all HAA5 sample results collected at a location over a year.									
2020	Total Trihalomethanes (TTHm)*	DBP2-01	81	64.3-97.6	No goal for the total	80	ppb	Y	By-product of drinking water chlorination.
2020	Total Trihalomethanes (TTHm)*	DBP2-02	76	63.1-91	No goal for the total	80	ppb	N	By-product of drinking water chlorination.
2020	Total Trihalomethanes (TTHm)*	DBP2-03	72	61-85.1	No goal for the total	80	ppb	N	By-product of drinking water chlorination.
2020	Total Trihalomethanes (TTHm)*	DBP2-04	77	61.7-97.6	No goal for the total	80	ppb	N	By-product of drinking water chlorination.

The value in the Highest Level or Average Detected column is the highest average of all TTHM sample results collected at a location over a year.

Maximum Contaminant Level Violation MCL, LRAA / TTHM - Oct-Dec - quarter four 2020 of 0.081 mg/L for DBP2-01.

Manville management has contacted the wholesale water provider to discuss the water treatment process of the water being provided. The Manville Production team is currently flushing all dead-end mains bi-weekly to prevent TTHM from increasing due to water aging. Crews are monitoring and documenting current chlorine residual levels weekly at both entry points, where the purchased source water enters into the Manville system, and at all dead-end mains. The report is being examined bi-weekly by the Director of Operation to confirm and ensure that residual levels indicate that TTHM levels are safely in compliance with TCEQ rules and regulations. Furthermore, additional quality testing is being performed by a third-party contractor to confirm that the levels are below required maximum contaminant level. Manville is confident that these measures to correct the MCL for TTHM will result in compliance values during the first quarter of TCEQ testing.

Some people who drink water containing trihalomethanes (TTHM) in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Inorganic Contaminants

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Source of Contamination
2019	Arsenic	2.7	0-2.7	0	10	N	ppb	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics product wastes.
2019	Barium	0.142	0.046-0.142	2	2	N	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2020	Fluoride	2.52	0.22-2.52	4	4	N	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2019	Selenium	4.8	0-4.8	50	50	N	ppb	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.
2020	Nitrate (measured as Nitrogen)	2.56	<0.05-2.56	10	10	N	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2015	Nitrite (measured as Nitrogen)	0.2	<0.01-0.2	1	1	N	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age, high nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall.

Radioactive Contaminants

2017	Beta/Photon emitters	4.4	0-4.4	0	4	N	mrem/yr	Decay of natural and man-made deposits.
2020	Combined Radium 226 & 228	1.8	1.8	0	5	N	pCi/L	Erosion of natural deposits.
2020	Gross Alpha excluding radon and uranium	7.1	7.1	0	15	N	pCi/L	Erosion of natural deposits.

Volatile Organic Contaminants

2020	Xylenes	0.0007	0-0.0007	10	10	N	ppm	Discharge from petroleum factories. Discharge from chemical factories.
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Unregulated Initial Distribution System Evaluation for Disinfection Byproducts WAIVED OR NOT YET SAMPLED

Unregulated Contaminants

Bromoform, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.								
2020	Chloroform	19.6	<1.0-19.6	N/A	N/A	N	ppb	By-product of drinking water disinfection.
2020	Bromoform	13.5	<1.0-13.5	N/A	N/A	N	ppb	By-product of drinking water disinfection.
2020	Bromodichloromethane	30	<1.0-30	N/A	N/A	N	ppb	By-product of drinking water disinfection.
2020	Dibromochloromethane	35.2	<1.0-35.2	N/A	N/A	N	ppb	By-product of drinking water disinfection.

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MANVILLE WSC

Annual Drinking Water Quality Report

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*Secondary and Other Constituents Not Regulated (No associated adverse health effects)								
Collection Date	Constituent	Range of Levels Detected	Highest Level Detected	Secondary	Unit Measure	Source of Constituent		
2020	Bicarbonate	299-404	404	NA	ppm	Abundant naturally occurring element.		
2019	Calcium	10.3-121	121.0	NA	ppm	Abundant naturally occurring element.		
2020	Chloride	32-51	51.0	300	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.		
2019	Iron	<0.01-0.703	0.703	0.3	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.		
2019	Magnesium	3.45-33	33.0	NA	ppm	Abundant naturally occurring element.		
2019	Manganese	<0.001-0.0494	<0.001-0.0494	0.05	ppm	Abundant naturally occurring element.		
2019	Nickel	<0.001-0.0045	0.0045	NA	ppm	Erosion of natural deposits.		
2020	pH	7-7.7	7.7	7	units	Measure of corrosivity of water.		
2019	Potassium	3.6	1.21-3.63	NA	ppm	Erosion of natural deposits.		
2019	Sodium	10.1-97.6	97.6	NA	ppm	Erosion of natural deposits; byproducts of oil field activity.		
2020	Sulfate	72-86	86	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.		
2019	Total Alkalinity as CaCO3	114-319	319	NA	ppm	Naturally occurring soluble mineral salts.		
2020	Total Dissolved Solids	458-523	523	1000	ppm	Total dissolved mineral constituents in water.		
2019	Total Hardness as CaCO3	38.9-381	381	NA	ppm	Naturally occurring calcium.		
2019	Zinc	<0.005-0.198	0.1980	5	ppm	Moderately abundant naturally occurring element used in the metal industry.		