

MANVILLE WATER SUPPLY CORPORATION

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March 27, 2019

Lakeside Mud # 3
C/O Amrbrust & Brown, LLP
100 Congress Ave. Ste 1300
Austin, TX 78701

Dear Sirs,

In response to 30 Texas Administrative Code (TAC) 290.274(q), Manville Water Supply Corporation is submitting water quality data to our customers who resale Manville WSC'S water. This data is to be utilized in the production of your Drinking Water Quality Report or Consumer Confidence Report (CCR).

Water quality data listed on the attached is from the Texas Commission on Environmental Quality, (TCEQ), required sampling conducted during the 2018 calendar year.

If you have any questions please call our office.

Sincerely,



Tony Graf
General Manager

Enclosed: 2018 CCR information

Annual Water Quality Report for the period of January 1 to December 31, 2018

***Secondary and Other Constituents Not Regulated (No associated adverse health effects)**

Collection Date	Constituent	Range of Levels Detected	Highest Level	Secondary	Unit Measure	Source of Constituent
2017	Bicarbonate	201-389	389	NA	ppm	Abundant naturally occurring element.
2018	Calcium	10.7-110	110.0	NA	ppm	Abundant naturally occurring element.
2018	Chloride	12-62	62.0	300	ppm	Abundant naturally occurring element; used in water purification; by-product of oil field activity.
2018	Iron	<0.01-0.405	0.405	0.3	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
2017	Magnesium	9.20-29.70	29.7	NA	ppm	Abundant naturally occurring element.
2018	Manganese	<0.0010-0.0269	0.0269	0.05	ppm	Abundant naturally occurring element.
2017	Nickel	0.0016-0.0047	0.0047	NA	ppm	Erosion of natural deposits.
2018	Sodium	14.2-72.8	72.8	NA	ppm	Erosion of natural deposits; byproducts of oil field activity.
2018	Sulfate	<1.0-109	109	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2018	Total Alkalinity as CaCO3	102-334	334	NA	ppm	Naturally occurring soluble mineral salts.
2018	Total Dissolved Solids	181-579	579	1000	ppm	Total dissolved mineral constituents in water.
2018	Total Hardness as CaCO3	40.9-379	379	NA	ppm	Naturally occurring calcium.
2017	Zinc	<0.0050-0.0397	0.0397	5	ppm	Moderately abundant naturally occurring element used in the metal industry.

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Disinfection Byproducts											
Collection Date	Disinfectants and Disinfection By-Products	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Source of Contamination	Units	Violation	Likely Source of Contamination
2018	Total Haloacetic Acids (HAA5)*	28.5	4-28.5	No goal for the total	60	N	ppb	By-product of drinking water chlorination.	ppb	N	
2018	Total Trihalomethanes (THM)*	45.4	4.4-45.4	No goal for the total	80	N	ppb	By-product of drinking water chlorination.	ppb	N	
Inorganic Contaminants											
Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Source of Contamination	Units	Violation	Likely Source of Contamination
2017	Barium	0.140	0.0505-0.140	2	2	N	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	ppm	N	
2017	Fluoride	1.54	0.13-1.54	4	4	N	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum	ppm	N	
2017	Cyanide	20	0-20	200	200	N	ppb	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.	ppb	N	
2017	Selenium	7.1	0-7.1	50	50	N	ppb	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines.	ppb	N	
2018	Nitrate (measured as Nitrogen)	2.05	0.02-2.05	10	10	N	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	ppm	N	
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.	mrem/yr	N	
2017	Combined Radium 226 & 228	2.26	0-2.26	0	5	N	pCi/L	Erosion of natural deposits.	pCi/L	N	
2017	Gross Alpha excluding radon and uranium	6.7	0-6.7	0	15	N	pCi/L	Erosion of natural deposits.	pCi/L	N	
2017	Uranium	2.3	0-2.3	0	30	N	ug/L	Erosion of natural deposits.	ug/L	N	
Volatile Organic Contaminants											
2018	Ethylbenzene	1.7	0-1.7	700	700	N	ppb	Discharge from petroleum refineries; industrial chemical factories	ppb	N	
2018	Xylenes	0.0065	0-0.0065	10	10	N	ppm	Discharge from petroleum factories. Discharge from chemical factories.	ppm	N	
Unregulated Contaminants											
Bromofom, chloroform, dichlorobromomethane, and dibromochloromethane are disinfection byproducts. There is no maximum contaminant level for these chemicals at the entry point to distribution.											
2018	Chloroform	25.6	<1.0-25.6	N/A	N/A	N	ppb	By-product of drinking water disinfection.	ppb	N	
2018	Bromoform	6.5	<1.0-6.5	N/A	N/A	N	ppb	By-product of drinking water disinfection.	ppb	N	
2018	Bromodichloromethane	13.5	<1.0-13.5	N/A	N/A	N	ppb	By-product of drinking water disinfection.	ppb	N	
2018	Dibromochloromethane	13	<1.0-13	N/A	N/A	N	ppb	By-product of drinking water disinfection.	ppb	N	