

# MANVILLE

Coupland Texas

13805 South SH 95 Coupland, TX



*MWSC is an equal opportunity provider and employer.*

TX2270033

**MANVILLE WATER SUPPLY CORPORATION**  
**Annual Drinking Water Quality Report January 1 to December 31, 2020**

**Public Participation Opportunities**

Board Meeting Second Thursday of each month.  
**Time:** 6:00 pm  
**Location:** 13805 South SH 95  
Coupland, TX 78615  
**Phone No:** (512) 856 - 2488 or (888) 856 - 2488

**Contact Information**

**Mailing Address:** P.O. Box 248, Coupland TX 78615  
**Physical Address:** 13805 South SH 95, Coupland, TX 78615  
**Phone Numbers:** (512) 856-2488  
**Fax Number:** (512) 856-2029  
**Auto Bill Pay:** (512) 856-9006  
**Website:** www.manvillewsc.org

*Please keep informed of all system news & emergency notices by signing up for "ALERTS" on our website.*

**PAYMENT LOCATIONS & HOURS**

Manville Office @ 13805 South SH 95  
Lobby Hrs. Mon.-Fri. 8:30am-4:00pm. Drop box available 24/7.  
Coupland: Citizens National Bank @ 102 Hoxie Street  
Hrs. Mon.-Fri. 9am-3pm.  
Taylor: Citizen National Bank @ 316 N. Main  
Hrs. Mon.-Thur. 9am-3pm, Fri. 9:00am - 5:00pm.  
Pflugerville: Citizens National Bank @601 FM 685  
Hrs. Mon.-Fri. 7:30am - 5:00pm Sat. 9:00am-12:00pm.

**NOTE: ALL PAYMENTS MADE AFTER 3 P.M. MAY NOT BE CREDITED UNTIL THE FOLLOWING BUSINESS DAY.**

**PAYMENT OPTIONS**

Bank Drafting - Forms can be obtained from our website, [www.manvillewsc.org](http://www.manvillewsc.org), or by calling our office.  
Online - Make your payment online by visiting our website.  
Bill Pay System - Credit/debit card payments can be made on our phone bill pay system (512) 856-9006.

**ALL PAYMENT OPTIONS ARE FREE.**

**Attention Members - Payments made to www. DOXO.com is unauthorized and does not constitute payment of your water bill.**

Private leaks occasionally occur and unfortunately, when it happens, water usage and charges can be significantly higher. In this situation, our staff will gladly assist you in setting up a payment plan.

**Notice to Customers**

Enclosed with this report you will find data sheets provided by the City of Pflugerville and 130 Regional WSC. Manville purchases water from these entities for various areas within our serving area and we are required to provide customers with this data. Please note that City of Pflugerville is surface (lake) water so the testing requirements slightly differ from Manville's. 130 Regional WSC is well water.

**Termination of Service**

To avoid termination of your service for non-payment, you must pay the balance of your account by the due date. Once your service has been terminated; the full account balance, including any new charges and the reconnection fee, must be paid. Fees must be paid by credit/debit card, cash, cashiers check or money order. NO PERSONAL CHECKS ACCEPTED.

**METER READING/LEAK DETECTION**

Your meter is an automatic meter read meter (AMR). See photos below



If you have a billing discrepancy, the first thing you should do is read your water meter. The water meter is in a meter box that is in the ground at the road. Open the lid on the meter box. To read meter see below. Then compare the reading to the present reading on your water bill. Please contact the office for any assistance. Any customer that feels the meter is to blame for the high usage can have the meter removed and tested at the customer's expense.

<b>TESLA</b> - Read the large numbers from left to right but do not include the two small digits at the end of the digital register. If the word LEAK is illuminated you have a leak.	<b>Neptune</b> - Read the numbers from left to right including the digits in black. If no water is on and the red triangle is turning you have a leak.
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TX2270033

MANVILLE WATER SUPPLY CORP.

Annual Drinking Water Quality Report January 1 to December 31, 2020

*This is your water quality report for January 1 to December 31, 2020. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water.*

For more information regarding this report contact:

Name Erik Prinz

Phone 512-856-2488

Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (512 ) 856-2488.

#### Source Water Assessment

No Source Water Assessment for our drinking water source(s) has been conducted by the TCEQ. This report describes the susceptibility and types of constituents that may come into contact with your drinking water source based on human activities and natural conditions. The information in this assessment will allow us to focus our source water protection strategies.

For more information about our sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <http://tceq.texas.gov/gis/swaview>

Further details about sources and source-water assessments are available in Drinking Water Watch at the following URL: <http://dww2.tceq.texas.gov/DWW/>

#### Sources of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at (800) 426-4791.

Our drinking water is obtained from surface and ground water sources in Travis, Lee, Williamson & Burleson counties. It comes from the Edwards Aquifer, River Alluvium Aquifer, Simsboro and the Carrizo-Wilcox Aquifer. Water purchased from the City of Pflugerville is surface water from Lake Pflugerville/LCRA.

#### Contaminants that may be present in source water include:

\*Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

\*Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

\*Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

\*Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

\*Radioactive contaminants, which can be naturally - occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Contaminants may be found in drinking water that may cause taste, color, or odor problems. These types of problems are not necessarily causes for health concerns. For more information on taste, odor, or color of drinking water, please contact our business office at 512-856-2488.

#### Special notice for the Elderly, Infants, Cancer Patients, people with HIV/AIDS or other immune problems:

You may be more vulnerable than the general population to certain microbial contaminants, such as Cryptosporidium, in drinking water. Infants, some elderly, or immune compromised persons such as those undergoing chemotherapy for cancer; those who have undergone organ transplants; those who are undergoing treatment with steroids; and people with HIV/AIDS or other immune system disorders can be particularly at risk from infections. You should seek advice about drinking water from your physician or health care provider. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium are available from the Safe Drinking Water Hotline at (800) 426-4791.

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MANVILLE WATER SUPPLY CORP.

Annual Drinking Water Quality Report January 1 to December 31, 2020

Source Name - Ground Water Wells

HEB 1 & 2	Dell Well 2	4 & 4B Royston Ln	Fritsch 1 & 2	Stewart 1,2,3	FM 170 Well
HEB 3	3 & 3B Tacon	Lawrence	7&7A Beakiss	130 Regional WSC	
Schultz Ln	Wilke Ln	Springbrook	Blue Wells 1,2,3,4,5,6	Alcoa Wells	

Source Name - Surface Water

Pflugerville Lake/LCRA water - Pflugerville Pkwy East & West

Lead and Copper

	Collection Date	90th Percentile	# of Sites over AL	Action Level	MCLG	Units	Violation	Likely Source of Contamination
Copper	2019	0.19	0	1.3	1.3	ppm	N	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.
Lead	2019	1.6	0	15	0	ppb	N	Erosion of natural deposits; Corrosion of household plumbing systems; erosion of natural deposits.

Recommended Additional Health Information for Lead

"If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. This water supply is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

Water Quality Test Results

Definitions	The following tables contain scientific terms and measures, some of which may require explanation.
Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
Maximum Contaminant Level or MCL	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
Level 1 Assessment	A level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water.
Maximum Contaminant Level Goal or MCLG	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
Level 2 Assessment	A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an E. coli MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
Maximum residual disinfectant level or MRDL	The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
Maximum residual disinfectant level goal or MRDLG	The level of drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
MFL	million fibers per liter ( a measure of asbestos)
mrem	millirems per year (a measure of radiation absorbed by the body)
na	not applicable
NTU	nephelometric turbidity units (a measure of turbidity)
pCi/L	picocuries per liter ( a measure of radioactivity)
ppb	micrograms per liter or parts per billion
ppm	milligrams per liter or parts per million
PPQ	parts per quadrillion, or picograms per liter (pg/L)
ppt	parts per trillion, or nanograms per liter (ng/L)
Treatment Technique or TT	A required process intended to reduce the level of a contaminant in drinking water

Regulated Contaminants

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.									
Violation TTHM									
Violation Type	Violation Begin	Violation End							
MCL LRAA	10/1/2020	12/31/2021	Water samples showed that the amount of this contaminant in our drinking water was above its standard (called a maximum contaminant level and abbreviated MCL) for the period indicated.						

**Maximum Contaminant Level Violation MCL LRAA/ TTHM - Violation period Oct - Dec 2020, 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	Likely 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	Discharge from steel/metal factories; Discharge from plastic and fertilizer 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.

This is an alert about our drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/l) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system Manville WSC has a fluoride concentration of 0.22 - 2.52 mg/l. Dental Fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your local dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water. For more information, please call Erik Prinz, Manville WSC at 512-856-2488 ext 233. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

**Radioactive Contaminants**

2017	Beta/Photon emitters	4.4	<4.0-4.4	0	4	N	mrem/yr	Erosion of natural deposits.
* EPA considers 50 pCi/L to be the level of concern for beta particles.								
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	0.00007	0-0.0007	10	10	N	ppm	Discharge from petroleum factories and chemical factories.
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**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.

Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Likely Source of Contamination
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.

**Residual Disinfectant Level**

Year	Disinfectant	Maximum Level	Range of Levels Detected	MRDL	MRDLG	Unit of Measure	Source of Disinfectant
2020	Chloramines Residual	2.80	0.74-2.80	4.0	4.0	ppm	Disinfectant used to control microbes.
2020	Chlorine Residual, Free	2.5	0.68-2.50	4.0	4.0	ppm	Disinfectant used to control microbes.

**Coliform Bacteria**

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positives	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No of Positive E Coli or Fecal Coliform	Violation	Likely Source of Contaminant
0	1 positive monthly sample	1	Fecal Coliform or E. Coli Maximum Contaminant MCL: A routine sample and a repeat sample are total coliform positive, and one is also fecal coliform or E. coli positive.	0	N	Naturally present in the environment

**\*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
2020	Bicarbonate	299-404	404	NA	ppm	Abundant naturally occurring element.
2019	Calcium	10.3-121	121	NA	ppm	Abundant naturally occurring element.
2020	Chloride	32-51	51	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
2019	Magnesium	3.45-33	33.0	NA	ppm	Abundant naturally occurring element.
2019	Manganese	<0.001-0.0494	0.0494	0.05	ppm	Abundant naturally occurring element.
2019	Nickel	0.0016-0.0047	0.0047	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	97.0	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 CaCO <sub>3</sub>	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 CaCO <sub>3</sub>	38.9-381	381	NA	ppm	Naturally occurring calcium.
2019	Zinc	<0.005-0.198	0.198	5	ppm	Moderately abundant naturally occurring element used in the metal industry.

**2020 WATER LOSS AUDIT** - In the water loss audit submitted to the Texas Water Development Board for the time period of Jan-Dec 2020, our system lost an estimated 419,660,416 gallons of water. If you have any questions about the water loss audit please call 512-856-2488.



## Manville Water Supply Corp.

**PLEASE CONSERVE**

### VOLUNTARY WATERING SCHEDULE

**2021 Schedule:**

**Residential**

Odd # addresses: Wed. and/or Sat.

Even # addresses: Thurs. and/or Sun.

**Commercial/Multifamily**

All addresses – Tues. & or Friday

**All Customers - Operation of irrigation systems or hose-end sprinklers should be before 10am & after 7pm.**

**Hand watering is allowed any day and any time.**

*By city ordinance all residents within the city limits of Pflugerville are under Stage II Mandatory watering restrictions regardless of your water provider.*

#### **Helpful Tips to Conserve Water**

*Check for and fix all leaky faucets.*

*Use your water meter to check for hidden water leaks.*

*Test toilets for leaks by adding a few drops of food coloring or a dye tablet in the water tank. Wait a few minutes and see if coloring appears in the bowl. (If it does, the toilet has a silent leak that needs repair)*

*Install water-saving showerheads that use 2.5 gallons per minute or less.*

*When brushing your teeth, turn the water off until it is time to rinse.*

*Take a 5 minute shower or 6" deep bath.*

*Use your clothes washer and dishwasher only when they are full. This will save up to 1,000 gallons a month.*

*Chill drinking water in the refrigerator instead of running the faucet until the water is cold.*

*Don't use running water to thaw food. Defrost food in the refrigerator for water efficiency and food safety.*

*Purchase a rain barrel to capture rainwater for use on your landscape.*

*Plant drought-tolerant plants, shrubs and grasses when landscaping.*

*Do not over water your lawn. The soil only holds so much moisture and the rest runs off.*

*Position sprinklers so they are not watering walkways and driveways.*

*Check sprinkler systems and timing devices regularly to be sure they are working properly.*

*Avoid watering your lawn on windy days.*

*Adjust your lawnmower to cut grass high. Taller grass holds moisture better.*

*Do not "sweep" walks and driveways with the hose. Use a broom or rake instead.*

### **Keeping our water safe**

The production and delivery of safe water is the highest priority for a public water supply system. After a potable water has been produced, precautions must be taken to ensure that it is not contaminated with water, liquids, gases, or corrosive products from external sources.



### **What is a cross-connection**



A physical connection between a public water system and any source which may contain contaminating or polluting substances or any source of water treated to a lesser degree in the treatment process. Most common potential cross - connection is the simple misuse of an ordinary garden hose in the residential setting. Any time a hose is connected to an unprotected faucet or to the end of a pipe, this constitutes an extension of your water line and compromises its built-in air gap.

### **Backflow Prevention Device**

**Hose Bib Vacuum Breaker** This device is a non-testable atmospheric vacuum breaker designed for attachment to a hose-bib/sillcock to prevent backsiphonage only.

**Manville WSC mandates that all customers use this device on every hose bib.**

### **Taste - Odor - Discoloration of water**

It's Manville's desire to provide our customers with safe, reliable and affordable water; therefore, if you notice that your water has an odor, is discolored or tastes bad, please contact our office immediately **(512)856-2488 or (888)856-2488**

This can be caused by a variety of substances and is more pronounced in warmer water.

**Rotten egg smell / Sulfur taste -- caused by Sulfur compounds**

**Yellow/Brown water -- caused by Iron & Manganese in water**

**Chlorine -- disinfectant reacts with organisms, organic matter or minerals and may produce taste and/or odor in the drinking water**

### **Private plumbing may also cause taste & odor in water.**

**Water Heater** - Minerals & gases can be trapped in the bottom of water heaters. Also if the thermostat on the water heater is set too high or malfunctions the water can overheat causing it to back up into the cold water lines. Both will cause bad taste and/or odor in your water. **Old Plumbing** -- Old pipes can contain scaling or corrosion which can create an odor or bad taste.

### **Private Shut off valve**

Every customer must have a private shut off valve on their side of meter to shut off the water supply. The meter shut off valve is for Manville WSC use only.



**City of Pflugerville**

**Annual Drinking Water Quality Report 2020**

**Inorganic Contaminant**

Year	Constituent	High	Low	Range	MCL	MCLG	Units	Violation	Source of Constituent
2020	Barium	0.0596	0.0596	0.0596	2	2	ppm	N	Erosion of natural deposits.
2020	Cyanide	0.07	0.07	0.07	0.2	0.2	ppm	N	Discharge from steel/metal factories; Discharge from plastic and fertilizer factories.
2020	Fluoride	0.22	0.22	0.22	4	4	ppm	N	Erosion of natural deposits; water additive which promotes strong teeth.
2020	Nitrate	1.71	0.06	0.06-1.71	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
2020	Arsenic	2.5	2.5	2.5	10	0	ppb	N	Leaching from natural deposits.
2020	Nickel	0.0013	0.0013	0.0013	na	na	ppm	N	Erosion of natural deposits.
2020	Selenium	<0.003	<0.003	<0.003	0.05	0.05	ppm	N	Discharge from Petroleum and metal refineries, erosion control of natural deposits, discharge from mines.

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 or agricultural activity. If you are caring for an infant, you should ask advice from your healthcare provider.

**Radioactive Contaminants**

Year	Constituent	High	Low	Range	MCL	MCLG	Units	Violation	Source of Constituent
2015	Combined Radium	1.5	1.5	1.5-1.5	5	0	pCi/L	N	Erosion of natural deposits.

**Turbidity**

Year	Constituent	High	Low	Average	MCL	MCLG	Unit	Violation	Source of Constituent
2020	Turbidity	0.08	0.01	0.02	0.3	NA	NTU	N	Soil runoff.

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

**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.

Year	Constituent	High	Low	Average	MCL	MCLG	Units	Violation	Source of Constituent
2020	Dibromochloromethane	36.8	<1	20.76	Non Established		ppb	N	Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulations are warranted.
2020	Chloroform	27.4	1	11.69	Non Established		ppb	N	
2020	Bromoform	13.4	<1	7.08	Non Established		ppb	N	
2020	Bromodichloromethane	31	<1	17.58	Non Established		ppb	N	

**\*Secondary and Other Constituents Not Regulated**

Year	Constituent	High	Low	Average Level	Secondary Limit	Units	Violation	Source of Constituent
2020	Aluminum	.0251	.0251	.0251	50-200	ppb	N	Naturally occurring element.
2020	Calcium	32	32	32	NA	ppm	N	Naturally occurring element.
2020	Chloride	43	43	43	300	ppm	N	Naturally occurring element.
2020	pH	8.57	7.017	8.198	>7.0	units	N	Measure of corrosivity of water.
2020	Sodium	25.7	25.7	25.7	NA	ppm	N	Naturally occurring element.
2020	Sulfate	33	33	33	300	ppm	N	Naturally occurring material.
2020	Hardness	152	152	152	NA	ppm	N	Naturally occurring calcium and magnesium.
2020	Total Alkalinity	214	122	161	NA	ppm	N	Naturally soluble mineral salts.
2020	Total Dissolved	306	306	306	1000	ppm	N	Total dissolved mineral constituents in water.

**Synthetic Organics**

Year	Constituent	High	Low	Range	MCLG	MCL	Unit	Violation	Source of Constituent
2020	Atrazine	<1	<1	<1	3	3	ppb	N	Runoff from herbicide used on row crops. Discharge from rubber and chemical factories.
2020	Di(2-ethylhexyl)phthalate	2.5	<0.6	0-2.5	6	6	ppb	N	

**Reminder by City Ordinance** - Effective March 1, 2021 the City of Pflugerville is under mandatory Stage 2 water restrictions as outlined in the City's Water Drought Contingency Plan. Residents in the city limits are allowed to water no more than twice per week, based on their home mailing address, regardless of your water provider.

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## Annual Drinking Water Quality Report 2020

### Regulated Contaminants

#### Inorganic Contaminants

Collection Date	Contaminant	Highest Level	Range of Level Detected	MCL	MCLG	Unit of Measure	Source of Constituent
2020	Barium	0.141	0.141-0.141	2	2	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2020	Fluoride	0.16	0.16-0.16	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.

#### Disinfection Byproducts

2018	Total Trihalomethanes (TThm)*	12.2	12.2-12.2	80	No goal	ppb	By-product of drinking water chlorination.
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#### Unregulated Contaminants

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Units of Measure	Likely Source of Contaminant
2020	Chloroform	2.0	2.0	2.0	NA	NA	ppb	Byproduct of drinking water disinfection.
2020	Bromoform	1.6	1.6	1.6	NA	NA	ppb	Byproduct of drinking water disinfection.
2020	Bromodichloromethane	3.4	3.4	3.4	NA	NA	ppb	Byproduct of drinking water disinfection.
2020	Dibromochloromethane	4.3	4.3	4.3	NA	NA	ppb	Byproduct of drinking water disinfection.