

## Annual Drinking Water Quality Report

**TX2340011**

**LITTLE HOPE-MOORE WATER SUPPLY**

Annual Water Quality Report for the period of January 1 to December 31, 2013  
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.

Board of Directors Meet the 2<sup>nd</sup> Monday of each month at 6 pm at the Little Hope-Moore WSC office located at 150 FM 16 Canton.

LITTLE HOPE-MOORE WATER SUPPLY is Ground Water

For more information regarding this report contact:

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Este reporte incluye información importante sobre el agua para tomar. Para asistencia en español, favor de llamar al telefono (903)567-1290.

## 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.

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 the system's business office.

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; persons 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 providers. Additional guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* are available from the Safe Drinking Water Hotline (800-426-4791).

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. We are responsible for providing high quality drinking water, but we 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>.

## Information about Source Water Assessments

The TCEQ completed an assessment of your water and results indicated that some of your sources are susceptible to certain contaminants. The sampling requirements for your water system are based on this susceptibility and previous sample data. Any detections of these contaminants may be found in this Consumer Confident Report. For more information on source water assessments and protection efforts at our system, contact Pam Shipley at 903-253-5565.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL:  
<http://gis3.tceq.state.tx.us/swav/Controller/index.jsp?wtrsrc=>

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

Source Water Name	Type of Water	Report Status	Location
1 - PLANT 1 (FM 16 / E OF SH 64)	PLANT 1 (FM 16 / E OF SH 64) GW	Active	Carrizo-Wilcox
6 - SH 64 / W OF PLANT 1	SH 64 / W OF PLANT 1 GW	Active	Carrizo-Wilcox

## 2013 Regulated Contaminants Detected

### Coliform Bacteria

Maximum Contaminant Level Goal	Total Coliform Maximum Contaminant Level	Highest No. of Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples	Violation	Likely Source of Contamination
0	1 positive monthly sample.	1		0	N	Naturally present in the environment.

### Water Quality Test Results

Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
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.
Maximum Contaminant Level Goal or Maximum residual disinfectant level or	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a 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	The level of a 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)
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 - or one ounce in 7,350,000 gallons of water.
ppm:	milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.
ppt	parts per trillion, or nanograms per liter (ng/L)
ppq	parts per quadrillion, or picograms per liter (pg/L)

**Regulated Contaminants**

<b>Inorganic Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
<b>Barium</b>	01/19/2012	0.12	0.103 - 0.12	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
<b>Chromium</b>	01/19/2012	0.237	0 - 0.237	100	100	ppb	N	Discharge from steel and pulp mills; Erosion of natural deposits.
<b>Fluoride</b>	01/19/2012	0.23	0.21 - 0.23	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
<b>Thallium</b>	01/19/2012	0.221	0 - 0.221	0.5	2	ppb	N	Discharge from electronics, glass, and Leaching from ore-processing sites; drug factories.
<b>Radioactive Contaminants</b>	<b>Collection Date</b>	<b>Highest Level Detected</b>	<b>Range of Levels Detected</b>	<b>MCLG</b>	<b>MCL</b>	<b>Units</b>	<b>Violation</b>	<b>Likely Source of Contamination</b>
<b>Beta/photon emitters</b>	01/18/2010	6.6	5.2 - 6.6	0	50	pCi/L*	N	Decay of natural and man-made deposits.

\*EPA considers 50 pCi/L to be the level of concern for beta particles

Parameters	Results	Units	LOD	PQL	MCL	DF	Prepared	By	Analyzed	By	Qual
<b>INORGANICS</b>											
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Iron Total	1.40	mg/L	0.0200	0.0500	0.3	1	10/7/2013 00:00	FM	10/7/2013 14:09	CW	M
<b>INORGANICS</b>											
Analysis Desc: E200.8, ICP-MS			Preparation Method: E200.8, ICP-MS Prep								
			Analytical Method: E200.8, ICP-MS								
Manganese Total	0.143	mg/L	0.000400	0.00100	0.05	1	10/7/2013 00:00	FM	10/24/2013 14:50	FO	M

## Little Hope-Moore WSC Disinfectant Level Operating Report

To protect drinking water from disease-causing organisms, or pathogens, water suppliers often add a disinfectant, such as chlorine, to drinking water.

Little Hope Moore Water Supply adds chlorine to disinfect the water. The quarterly average of all disinfectant residuals for the year of 2013 was 0.92 mg/L. The lowest average of all disinfectant residuals for the year of 2013 was 0.5 mg/L. The highest average of all disinfectant residuals for the year of 2013 was 1.8 mg/L. The unit of measure is mg/L or ppm. (see definitions above). The source of the chlorine used by Little Hope-Moore WSC is DX Group, Manufacturers & Distributors of Water Treatment Chemicals & Chemical Products.

Based on the MRDLG, EPA has set enforceable regulations for disinfectants, called a maximum residual disinfectant level (MRDL), at the following levels:

Disinfectant	MRDLG	MRDL
Chlorine	4 mg/L or 4 ppm	4.0 mg/L or 4 ppm as an annual average

Disinfectant (Chemical Abstract Service Registry Number)	Definition and uses	Health Effects
Chlorine (as Cl <sub>2</sub> )(10049-04-4)	The gaseous or liquid form of chlorine (Cl <sub>2</sub> ) is a water additive used by municipal water systems to control microbes. It is relatively inexpensive and has the lowest production and operating costs and longest history for large continuous disinfection operations. Chlorine is a powerful oxidant.	Some people who use water containing chlorine well in excess of the maximum residual disinfectant level could experience irritating effects to their eyes and nose. Some people who drink water containing chlorine well in excess of the maximum residual disinfectant level could experience stomach discomfort.