

**2015 Annual Drinking Water Quality Report
(Consumer Confidence Report)**

Emerald Lakes
PWS # TX1700777
936-756-7400

Annual Water Quality Report for the period of January 1 to December 31, 2015

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: Ronald L. Payne

Phone: 936-756-7400

En Español : Este informe incluye información importante sobre el agua potable. Si tiene preguntas o comentarios sobre éste informe en español, favor de llamar al tel. (936)-756-7400 para hablar con una persona bilingüe en español.

SPECIAL NOTICE

Required language for ALL community public water supplies:

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 bottle 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.

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 protections 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 immunocompromised 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 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).

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>.

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
- 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.

Information about Secondary Constituents - Many constituents (such as calcium, sodium, or iron) which are often found in drinking water, can cause taste, color, and odor problems. The taste and odor constituents are called secondary constituents and are regulated by the State of Texas, not the EPA. These constituents are not causes for health concern. Therefore, secondaries are not required to be reported in this document but they may greatly affect the appearance and taste of your water.

Information about Source Water Assessments: A Source Water Susceptibility Assessment for your drinking water source(s) is currently being conducted by the TCEQ and should be provided to us this year. The report will describe 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.

Our ground water source is from the Gulf Coast Aquifers.

For more information about your sources of water, please refer to the Source Water Assessment Viewer available at the following URL: <https://www.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/DWWW/>

Water Quality Test Results

<p>Definitions: Maximum Contaminant Level Goal or MCLG: Maximum Contaminant Level or MCL: Maximum residual disinfectant level goal or MRDLG Maximum residual disinfectant level or MRDL: MFL: NTU: pCi/L Avg: ppm: ppb: na: ppt: ppq:</p>	<p>The following tables contain scientific terms and measures, some of which may require explanation The level of a contaminant in drinking water below which there is no known or expected risk to health. MGLGs allow for a margin of safety. 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. 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. 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. Million fibers per liter (a measure of asbestos) Nephelometric turbidity units (a measure of turbidity) Picocuries per liter (a measure of radioactivity) Regulatory compliance with some MCLs are based on running annual average of monthly samples milligrams per liter or parts per million – or one ounce in 7,350 gallons of water micrograms per liter or parts per billion – or one ounce in 7,350,000 gallons of water not applicable parts per trillion, or nanograms per liter (ng/L) parts per quadrillion, or pictograms per liter (pg/L)</p>
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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
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0	1 positive monthly sample	There were no TCR detections for this system in this CCR period	0	0	N	Naturally present in the environment.
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Lead & Copper								
Collection Date		MCLG	Action Level (AL)	90 th Percentile	# Sites Over AL	Units of Measure	Violations	Likely Source of Contaminant
04/11/2014	Copper	1.3	1.3	0.044	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
04/11/2014	Lead	0	15	2	0	ppb	N	Corrosion of household plumbing systems; Erosion of natural deposits.

Regulated Contaminants									
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant	
07/30/2009	Haloacetic Acids (HAAS)*	Levels lower than detect level	0 - 0	No goal for the total	60	ppb	N	By-product of drinking water chlorination.	
Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future									
2014	Total Trihalomethanes (TTHm)	6	5.9 - 5.9	No goal for the total	80	ppb	N	By-product of drinking water chlorination.	
Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future									

Radioactive Contaminants									
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant	
2015	Beta/Photon emitters	8	6.7 - 8	0	50	pCi/L*	N	Decay of natural and man-made deposits.	
2015	Combined Radium 226/228	3.4	1.25 - 3.4	0	5	pCi/L	N	Erosion of natural deposits.	
2015	Gross alpha excluding radon and uranium	6.7	4.4 - 6.7	0	15	pCi/L	N	Erosion of natural deposits.	

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

Volatile Organic Contaminants									
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant	
2012	Xylenes	0.0006	0 - 0.0006	10	10	ppm	N	Discharge from petroleum factories; Discharge from chemical factories.	
2015	Carbon Tetrachloride	0.7	0 - 0.7	0	5	ppb	N	Discharge from chemical plants and other industrial activities.	

Inorganic Contaminants including pesticides									
Collection Date	Disinfectants and Disinfection ByProducts	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units of Measure	Violations	Likely Source of Contaminant	
03/24/2010	Alachlor	Levels lower than detect level	0 - 0	0	2	ppb	N	Runoff from herbicide used on row crops.	
03/24/2010	Atrazine	Levels lower than detect level	0 - 0	3	3	ppb	N	Runoff from herbicide used on row crops.	
2015	Arsenic	2.9	2.2 - 2.9	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	
2015	Barium	0.23	0.229 - 0.23	2	2	ppm	N	Discharge of drilling waste; Discharge from metal refineries; Erosion of natural deposits.	
03/24/2010	Chlordane	Levels lower than detect level	0 - 0	0	2	ppb	N	Residue of banned termiticide.	
08/05/2010	Dalapon	Levels lower than detect level	0 - 0	200	200	ppb	N	Runoff from herbicide used on rights of way.	
03/24/2010	Di (2-ethylhexyl) adipate	Levels lower than detect level	0 - 0	400	400	ppb	N	Discharge from chemical factories.	
03/24/2010	Di (2-ethylhexyl) phthalate	Levels lower than detect level	0 - 0	0	6	ppb	N	Discharge from rubber and chemical factories..	
03/24/2010	Endrin	Levels lower than detect level	0 - 0	2	2	ppb	N	Residue of banned insecticide.	
2015	Fluoride	0.14	0.13 - 0.14	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	
03/24/2010	Heptachlor	Levels lower than detect level	0 - 0	0	400	ppt	N	Residue of banned termiticide.	
03/24/2010	Heptachlor epoxide	Levels lower than detect level	0 - 0	0	200	ppt	N	Breakdown of heptachlor.	
03/24/2010	Hexachlorobenzene	Levels lower than detect level	0 - 0	0	1	ppb	N	Discharge from metal refineries and agricultural chemical factories.	
03/24/2010	Hexachlorocyclopentadiene	Levels lower than detect level	0 - 0	50	50	ppb	N	Discharge from chemical factories.	
03/24/2010	Lindane	Levels lower than	0 - 0	200	200	ppt	N	Runoff/leaching from insecticide used on cattle, lumber, gardens.	

		detect level						
03/24/2010	Methoxychlor	Levels lower than detect level	0 – 0	40	40	ppb	N	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock.
03/24/2010	Pentachlorophenol	Levels lower than detect level	0 – 0	0	1	ppb	N	Discharge from wood preserving factories.
03/24/2010	Simazine	Levels lower than detect level	0 – 0	4	4	ppb	N	Herbicide runoff.
03/24/2010	Toxaphene	Levels lower than detect level	0 – 0	0	3	ppb	N	Runoff/leaching from insecticide used on cotton and cattle.
2015	Nitrate (measured as Nitrogen)	0.04	0 – 0.04	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.

Nitrate Advisory – Nitrate in drinking water at levels above 10 ppm is a health risk for infants or 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 health care provider.

Violations Table

Lead and Copper Rule

The Lead and Copper Rule protects public health by minimizing lead and copper levels in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water mainly from corrosion of lead and copper containing plumbing materials.

Violation Type	Violation Begin	Violation End	Violation Explanation
INITIAL TAP SAMPLING (LCR)	07/01/2014	07/23/2015	We failed to test our drinking water for the contaminant and period indicated. Because of this failure, we cannot be sure of the quality of our drinking water during the period indicated.
LEAD CONSUMER NOTICE (LCR)	04/01/2014	2015	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.
LEAD CONSUMER NOTICE (LCR)	09/29/2014	2015	We failed to provide the results of lead tap water monitoring to the consumers at the location water was tested. These were supposed to be provided no later than 30 days after learning the results.

Public Notification Rule

The Public Notification Rule helps to ensure that consumers will always know if there is a problem with their drinking water. These notices immediately alert consumers if there is a serious problem with their drinking water (e.g., a boil water emergency).

Violation Type	Violation Begin	Violation End	Violation Explanation
PUBLIC NOTICE RULE LINKED TO VIOLATION	02/10/2015	2015	We failed to adequately notify you, our drinking water consumers, about a violation of the drinking water regulations.

Disinfectant Residual Table

<u>Disinfectant</u>	<u>Year</u>	<u>Average Level</u>	<u>Minimum Level</u>	<u>Maximum Level</u>	<u>MRDL</u>	<u>MRDLG</u>	<u>Unit of Measure</u>	<u>Violation (Y/N)</u>	<u>Likely Source of Contamination</u>
Chlorine	2015	1.18	0.56	1.91	4.0	4.0	ppm	N	Water additive used to control microbes.