

Brazos Lakes 2009 Annual Drinking Water Quality Report

Inorganic Contaminants

Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	MCLG	Unit of Measure	Source of Contaminant
2009	Barium	0.149	0.149	0.149	2	2	ppm	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
2007	Fluoride	0.41	0.41	0.41	4	4	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2009	Gross beta emitters	2.5	2.5	2.5	50	0	pCi/L	Decay of natural and man-made deposits.

Organic Contaminants TESTING WAIVED, NOT REPORTED, OR NONE DETECTED

Maximum Residual Disinfectant Level

Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MRDL	MRDLG	Unit of Measure	Source of Disinfectant
2009	Chlorine Residual, Free	1.25	0.6	1.9	4	4	ppm	Disinfectant used to control microbes.

Disinfection Byproducts

Year	Contaminant	Average Level	Minimum Level	Maximum Level	MCL	Unit of Measure	Source of Contaminant
2007	Total Trihalomethanes	5.2	5.2	5.2	80	ppb	Byproduct of drinking water disinfection.

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.								
Year or Range	Contaminant	Average Level	Minimum Level	Maximum Level	Unit of Measure	Source of Contaminant		
2005	Bromoform	0.7	0.7	0.7	ppb	Byproduct of drinking water disinfection.		
2005	Bromodichloromethane	0.7	0.7	0.7	ppb	Byproduct of drinking water disinfection.		
2005	Dibromochloromethane	1.3	1.3	1.3	ppb	Byproduct of drinking water disinfection.		

Turbidity NOT REQUIRED

Fecal Coliform REPORTED MONTHLY TESTS FOUND NO FECAL COLIFORM BACTERIA.

Total Coliform REPORTED MONTHLY TESTS FOUND NO COLIFORM BACTERIA.

Lead and Copper

Year	Contaminant	The 90th Percentile	Number of Sites Exceeding Action Level	Action Level	Unit of Measure	Source of Contaminant
2003	Lead	0.4	0	15	ppb	Corrosion of household plumbing systems; erosion of natural deposits.
2003	Copper	0.702	0	1.3	ppm	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

Required 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>."

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

Year or Range	Constituent	Average Level	Minimum Level	Maximum Level	Secondary Limit	Unit of Measure	Source of Constituent
2007	Bicarbonate	256	256	256	NA	ppm	Corrosion of carbonate rocks such as limestone.
2009	Calcium	49.5	49.5	49.5	NA	ppm	Abundant naturally occurring element.
2007	Chloride	40	40	40	300	ppm	Abundant naturally occurring element; used in water purification; byproduct of oil field activity.
2009	Iron	0.297	0.297	0.297	.3	ppm	Erosion of natural deposits; iron or steel water delivery equipment or facilities.
2009	Magnesium	10.3	10.3	10.3	NA	ppm	Abundant naturally occurring element.
2009	Manganese	0.0738	0.0738	0.0738	.05	ppm	Abundant naturally occurring element.
2007	pH	7.6	7.6	7.6	>7.0	units	Measure of corrosivity of water.
2009	Sodium	51	51	51	NA	ppm	Erosion of natural deposits; byproduct of oil field activity.
2007	Sulfate	18	18	18	300	ppm	Naturally occurring; common industrial byproduct; byproduct of oil field activity.
2007	Total Alkalinity as CaCO ₃	210	210	210	NA	ppm	Naturally occurring soluble mineral salts.
2007	Total Dissolved Solids	320	320	320	1000	ppm	Total dissolved mineral constituents in water.
2009	Total Hardness as CaCO ₃	166	166	166	NA	ppm	Naturally occurring calcium.
2009	Zinc	0.011	0.011	0.011	5	ppm	Moderately abundant naturally occurring element; used in the metal industry.