

MAPLE GROVE SERVICE AREA

Source water: Maple Grove Water Treatment Plant receives water from two surface water sources. About 90% of the water is diverted from Clear Creek and the remainder comes from Lena Gulch. Both collection systems are generally very healthy due to the absence of industrial activity in the watershed area. Some naturally-occurring metals and radioactive materials are dissolved in the water, however, to date, we have experienced no violations of regulations from any of these contaminants.

Treatment technology: Maple Grove Treatment Plant is a full treatment facility with coagulation, flocculation, membrane filtration and disinfection. In addition, iron, manganese and organic material are reduced. Lower iron and manganese levels reduce staining of fixtures and lower organic material levels reduce the formation of TTHM's during disinfection. The Treatment Plant features current state-of-the-art monitoring and operational equipment and all operators are highly qualified and certified by the State of Colorado.

CONTAMINANTS	MCL *	MCLG*	CCR Unit	Range of Detection	Maple Grove Average	Violation	Sampling Date	Sources of contamination
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Regulated in the treatment plant effluent

Antimony	6	6	ppb	0 - 1	0.4	No	3 samples **	Discharge from petroleum, fire retardants, ceramics
Barium	2	2	ppm	0 - 0.059	0.033	No	3 samples **	Erosion of natural deposits/drilling wastes
Fluoride	4	4	ppm	0.38	0.38	No	1/20/2010	Erosion of natural deposits
Chloramine as Cl ₂	4	N/A	ppm	0.35 - 3.48	1.72	No	6 Daily	Drinking water disinfectant
Nitrate	10	0	ppm	0.14 - 0.53	0.39	No	3 samples **	Runoff from fertilizer use/erosion of natural deposits
Total Organic Carbon (TOC)	TT	N/A	ppm	1.55 - 2.98	2.08	No	Monthly	Naturally present in the environment
Turbidity	TT	N/A	NTU	1* - 0.14	2* - 100%	No	6 Daily	Soil runoff
Uranium Total	30	N/A	ppb	0.0012	0.0012	No	4/14/2010	Erosion of natural deposits

1* Highest turbidity level for 2010

2* monthly % of samples less than 0.3 NTU

Regulated in the distribution system

Total Trihalomethanes (TTHM)	80	0	ppb	10.0 - 63.0	33.4	No	Quarterly	Disinfection by-product
Haloacetic Acids (HAA5)	60	0	ppb	5.3 - 15	9.3	No	Quarterly	Disinfection by-product
Chlorite	1	0.8	ppm	0.18 - 0.87	0.58	No	Daily	Disinfection by-product
Total Coliform Bacteria	1*	0	+ / -	2*	0	No	Monthly	Naturally present in the environment

1* presence of coliform bacteria in 1 monthly sample

2* 0 positive out of 300 samples

Regulated at customers tap

Lead	15	1*	0	ppb	2* 0.05	3* 0 out of 30	No	Jun-08	Corrosion of household plumbing and service connection.
Copper	1.3	1*	1.3	ppb	2* 0.3	3* 0 out of 30	No	Jun-08	

1* MCL/Action level at 90th percentile

2* 90th percentile value

3* Number of samples exceeding AL

INORGANIC CONTAMINANTS

Bromide	N/A	N/A	ppm	0.033 - 0.18	0.1	No	3 samples **	Naturally present in the environment
Chloride	250 (SMCL)	N/A	ppm	160 - 210	185	No	3 samples **	Naturally present in the environment
Manganese	0.05 (SMCL)	N/A	ppm	0 - 0.005	0.002	No	3 samples **	Naturally present in the environment
Silver	0.1 (SMCL)	N/A	ppm	0.0012	0.0012	No	1/20/2010	Naturally present in the environment
Sodium	N/A	N/A	ppm	32 - 110	58.7	No	3 samples **	Naturally present in the environment
Sulfate	250 (SMCL)	250	ppm	78 - 81	79	No	3 samples **	Naturally present in the environment
Zinc	5 (SMCL)	N/A	ppm	0 - 0.014	0.005	No	3 samples **	Naturally present in the environment

** - The Company was only required by regulation to test for inorganic contaminants once in 2010; however, for reasearch purposes they sampled on 1/20/10, 4/14/10, and 10/19/10.