

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

Barium	2	2	ppm	0.046	0.046	No	1/21/2009	Erosion of natural deposits/drilling wastes
Fluoride	4	4	ppm	0.44	0.44	No	1/21/2009	Erosion of natural deposits
Chloramine as Cl ₂	4	N/A	ppm	0.23 - 2.69	1.56	No	Daily	Drinking water disinfectant
Nitrate	10	0	ppm	0.28	0.28	No	1/21/2009	Runoff from fertilizer use/erosion of natural deposits
Total Organic Carbon (TOC)	TT	N/A	ppm	1.47 - 3.65	2.34	No	Monthly	Naturally present in the environment
Turbidity	TT	N/A	NTU	1* - 0.08	2* - 100%	No	12 Daily	Soil runoff
2,4-D	70	70	ppb	1.7	1.7	No	5/1/2009	Runoff from herbicides used on row crops

1* Highest turbidity level for 2009

2* monthly % of samples less than 0.3 NTU

Regulated in the distribution system

Total Trihalomethanes (TTHM)	80	0	ppb	5.0 - 80.0	34.9	No	Quarterly	Disinfection by-product
Haloacetic Acids (HAA5)	60	0	ppb	0 - 39	12.6	No	Quarterly	Disinfection by-product
Chlorite	1	0.8	ppm	0.12 - 0.98	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

UNREGULATED CONTAMINANTS

Bromodichloromethane	N/A	0	ppb	4.4 - 31	12.7	No	Quarterly	Component of TTHM chlorination by-product
Dibromochloromethane	N/A	70	ppb	2.3 - 20	9.7	No	Quarterly	Component of TTHM chlorination by-product
Chloroform	N/A	60	ppb	1.9 - 31	10.9	No	Quarterly	Component of TTHM chlorination by-product
Bromoform	N/A	0	ppb	0 - 6.7	2.0	No	Quarterly	Component of TTHM chlorination by-product

INORGANIC CONTAMINANTS

Bromide	N/A	N/A	ppm	0.1	0.1	No	1/21/2009	Naturally present in the environment
Chloride	250 (SMCL)	NA	ppm	110.0	110.0	No	1/21/2009	Naturally present in the environment
Manganese	0.05 (SMCL)	NA	ppm	0.2	0.2	No	5/23/2009	Naturally present in the environment
Sodium	N/A	N/A	ppm	69.0	69.0	No	1/21/2009	Naturally present in the environment
Sulfate	250 (SMCL)	250	ppm	73.0	73.0	No	1/21/2009	Naturally present in the environment

The data for the total trihalomethanes, haloacetic acids, bromodichloromethane, dibromochloromethane, chloroform, and bromoform include analysis that are part of our IDSE testing plan which is currently being conducted for part of the Stage 2 disinfection / disinfection by-product rule.