Manville WSC Consumer Confidence Report Data 2011

Inorganic (Contaminants		<i>d</i>					
Collection Date	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Likely Source of Contamination
2011	Barium	0.137	.041137	2	2	N	ppm	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
2011	Fluoride	2.19	.27-2.19	4	4	N	ppm	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
2011	Nitrate (measured as Nitrogen)	9.84	<.01-9.84	10	10	N	ppm	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
	rinking water at levels abov Sitrate levels may rise quickly				than six i	nonths of ag	ge, high niti	ate levels in drinking water can cause blue bab
Radioactiv	e Contaminants							
2005	Beta/photon emitters	5.2	0-5.2	0	4	N	mrem/yr	Decay of natural and man-made deposits.
2005	Gross alpha excluding radon and uranium	2.1	0-2.1	0	15	N	pCi/L	Erosion of natural deposits.
2011	Gross beta emitters	5.8	<4.0-5.80	0	50	0	pCi/L	Decay of natural and man-made deposits.
2011	Gross alpha	4.5	<2.0-4.5	0	15	0	pCi/L	Erosion of natural deposits.
Organic Co	ontaminants TESTING W.	AIVED, NOT	REPORTED, O	R NONE DE	FECTED			
Volatile Or	ganic Contaminants							
2011	Vinyl Chloride	<0.5	<0.5-<0.5	0	2	N	ppb	Leaching from PVC piping; Discharge from plastic factories.
Unregulate	d Initial Distribution Syst	em Evaluatio	n for Disinfection	on Byproduct	ts WAIV	ED OR NO	T YET SA	MPLED
Unregulate	d Contaminants	,						
Bromoform	, chloroform, dichlorobrome t level for these chemicals at				infection	byproducts	. There is n	o maximum
Year (Range)	Contaminant	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Violation	Unit of Measure	Likely Source of Contamination
2011	Chloroform	27	<.5-27.0			N	ppb	By-product of drinking water disinfection.
	Bromoform	16.5	<.5-16.5			N	ppb	By-product of drinking water disinfection.
2011							FF-	
	Bromodichloromethane Dibromochloromethane	22.2 22.5	<.5-22.2 <.5-22.5			N N	ppb	By-product of drinking water disinfection. By-product of drinking water disinfection.

City of Pflugerville Consumer Confidence Report Data 2011

Collection	n Contaminant	Average	Minimum	Maximum	MCI	MOLO	Unit of	
Date		Level	Level	Level	MCL	MCLG	Measure	Source of Contaminant
2011	Arsenic	0.002	0.002	0.002	10	0	1	Erosion of natural deposits; runoff
	·			***************************************		v	ppb	orchards; runoff from glass and electro production wastes.
2011	Barium	0.060	0.060	0.040				Discharge of drilling wastes; discharge
			0.000	0.060	2	2	ppm	metal refineries; erosion of natural depo-
1102	Fluoride	0.38	0.34	0.43	4	4	ppm	Erosion of natural deposits water add
							ppm	which promotes strong teeth; disch from fertilizer and aluminum factories.
2011	Nitrate	0.97	0.01	2.07	10			Runoff from fertilizer use; leaching
		***	0.01	2.07	10	01	ppm	septic tanks, sewage; erosion of na
2011	Combined Radium 226 & 228	<1.0	<1.0	<1.0	5	0	pCi/L	Erosion of natural deposits
2011	Gross beta emitters	<4.0	<4.0	<4.0	50	0	pCi/L	Decay of natural and man-made deposits
	Gross alpha	2.0	2.0	2.0	15	0	pCi/L	Erosion of natural deposits
2011						···		
	Atrazine	0.10	0.10	0.10	3	3	ppb	Runoff from herbicide used on
	n Residual Disinfectant Level			***		W-1		crops.
Year	Disinfectant	Average Level	Minimum Level	Maximum Level	MCL	MRDLG	Unit of Measure	Source of Disinfectant
2011	Chloramine Residual	1.47	0.5	3.6	4	4	ppm	Disinfectant used to control microbe
	1 Byproducts						Ppm	Connectian used to control interope
	Disinfectants and Disinfection	Average	Minimum	Maximum	MOL	Unit of	Source of C	Contaminant
Date	By-Products	Level	Level	Level	MCL	Measure		
2011	Total Haloacetic acids (HAA5)*	8.48	<6.0	9.9	60	ppb	By product	of drinking water disinfection
2011	Total Trihalomethanes (TThm)*	23,88	<4.0	31.0	80	ррь	By product	of drinking water disinfection
regulated	Initial Distribution System Evaluati	on for Disinfect	ion Byproducts					
r complia	on is sampling required by EPA to	determine the	range of total to	ihalomethane and	haloacetic ac	id in the sys	tems for futur	e regulations. The samples are not use
	nce, and may have been collected us Contaminants	nder non-stand	ard conditions.	EPA also requires	the data to be	e reported he	re.	· ·
romotorm	n, chloroform, dichlorobromomethan	ne and dibrom	ochloromethen	oro dininfratia. I			· · · · · · · · · · · · · · · · · · ·	
emicals at	t the entry point to distribution.	, and arcross	ocinoronic(nam	are distillection (pyproducts. 1	nere is no m	aximum conta	iminant level for these
Year or	Contaminant	Average	Minimum	Maximum		Units of	Source of Co	
Range		Level	Level	Level		Measure	200166.01.00	nsamination
~~	Chlorofonn	3.0	<1.0	3.9		ppb	Byproduct of	drinking water disinfection
2011	Bromoform	6.8	<1.0	8.9		ppb		drinking water disinfection
2011			41.0	6.4		ppb		drinking water disinfection
2011 2011	Bromodichloromethane	4.7	<1,0				D	
2011 2011 2011	Bromodichloromethane Dibromochloromethane	4.7 8.5	<1,0 <1,0	11.5		ррь	Byproduct of	drinking water disinfection
2011 2011 2011 ad and Co	Bromodichloromethane Dibromochloromethane pper	8.5	<1,0					
2011	Bromodichloromethane Dibromochloromethane	8.5 The 90th	<1.0 # of Sites			Unit of	Source of Con	
2011 2011 2011 ad and Co Date ampled	Bromodichloromethane Dibromochloromethane pper Contaminant	8.5	<1,0	11.5			Source of Con	ntamination
2011 2011 2011 ad and Co Date	Bromodichloromethane Dibromochloromethane pper	8.5 The 90th	<1.0 # of Sites	11.5		Unit of	Source of Con	ntamination tousehold plumbing systems; erosion of

continued City of Pflugerville

Recommended 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."

Total Coliform

Total coliform bacteria are used as indicators of microbial contamination of drinking water because testing for them is easy. While not discase-causing organisms themselves, they are often found in association with other microbes that are capable of causing disease. Coliform bacteria are more hardy than many disease-causing organisms; therefore, their absence from water is a good indication that the water is microbiologically safe for human consumption.

Year	Contaminant	Highest Monthly % of	MCL	Units of	Source of Cont	aminant	
				Measure			
2011	Total Coliform Bacteria Presence of coliform bacteria in 5 %	l or more of the monthly samp	*	Presence	Naturally present i	n the environment	***************************************
Fecal Coliform		REPORTED MONTHLY		O NO FECAL O	COLIFORM BACTER	TA .	
Violations							
iolation Type NA		Health Effect	Duration		Explanation	Steps to Correct	

City of Pflugerville Surface Water Regulated at the Treatment Plant 2011									
PARAMETER	MCL	MCLG	DATE	AVG Result	High	Low			
·luride(ppm)	2	2	2011	0.34	0.34	0.34			
Vitrate (as N) (ppm)	10	10	2011	0.17	0,17	0.17			
Turbidity (ntu) 98% of all reading below 0.3 NTU	0.3	n/a	2011	0.23	0.6	0.13	****		

Only one set of samples collected during 2007

Turbidity

Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms Theses organisms include bacteria, viruses and parasites that can cause symptoms such as nausea, cramps, diarrhea and associated headaches.

	<u>.</u> .	Hightest Single	Lowest Monthly % of	Turbidity	Units of	Source of Contaminant
Year	Contaminant	Measurement	Samples meeting limits	Limits	Measure	
2011	Turbidity	0.60	99.5	0.3	NTU	Soil runoff
Total Organic Carbon				0.5	1110	3011 tuttoff

Total organic carbon (TOC) no health effects. The disinfectant can combine with TOC to form disinfection byproducts. Disinfection is necessary to ensure that water does not have unacceptable levels of pathogens. Byproducts of disinfection include trihalomethanes(THMs) and haloacetic acids(HAA) which are reported elsewhere in this report.

Year	Contaminant	Average Level	Minimum Level	Maximum Level	Units of Source of Contaminant
2011	Raw Water TOC	6.23	3,20	8.70	Measure
2011	Finished Water TOC	4,19	2.90	6.00	ppm Naturally present in the environment.
2011	Present Removal	30.66	3,60	61.70	ppm Naturally present in the environment. % removal NA
2011	Total Hardness	170	170	170	
Cryptosporidium M	onitaring Information				mg/L. Naturally occurring calcium and magnesium.

The City of Pflugerville started monitoring for cryptosporidium in June of 2008. We collect one sample per month and send it to a lab in Waco. All the samples have been negative. Cryptosporidium is a microbial parasite that may be commonly found in surface water. Cryptosporidium may come from animal and human feces in the watershed. The results of our monitoring indicated that there may be cryptosporidium in the raw water and/or treated finished water. Although treatment by filtration removes cryptosporidium, it cannot guarantee 100 percent removal. The testing methods used cannot determine if the organisms are alive and capable of causing cryptosporidiosis, an abdominal infection with nausea, diarrhea and abdominal cramps that may occur after ingestion of contaminated water.

Cryptosporidium Monitoring Information	Ocysts	Cysts		T		<u> </u>	
2010 Cryptosporidium	0	N/A					
2010 Giardia	N/A	0		 		 	
Disinfection Byproducts Rule Regulated at the Treatment	Plant				······································		<u></u>
PARAMETER	MCL	MCLG	DATE	AVG, Result	TC: L		
Raw Water TOC ppm	none	none	2011	6.23	High 8,70	Low	·
Tap Water TOC ppm	none	none	2011	4.19		3.20	
TOC Removal Ratio (%)	AVG > = 1	none	2011		6.00	2.90	
Regulated in the Distribution System		none	2011	30,66	61.70	3,60	
PARAMETER	MCL	MOLO	D 4 77 10				
Haloacetic Acids HAA5 (ppb)		MCLG	DATE	AVG. Result	High	Low	
Total Trihalomethanes (ppb)	60 AVG	na	2011	8,48	9.9	<6.0	
Regulated Disinfectant	80 AVG	na	2011	23.88	31.0	<4.0	
PARAMETER	***						
	MRDL	MRDLG	DATE	AVG. Result	High	Low	
Chloramines (ppm)	4	4	2011	1.47	3.6	0,5	
Proposed Standards							
PARAMETER	MCL	MCLG	DATE	AVG. Result	High	Low	
Bromodichloromethane ppb	not regulated	0	2011	4.76	6.4	<1.0	
Bromoform ppb	not regulated	0	2011	6.80	8.9	<1.0	
Dibromochloromethane ppb	not regulated	60	2011	8.52	11.5	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 	
Chloroform ppb	not regulated	0	2011			<1.0	
	not regulated	0	2011	3.00	3.9	<1.0	

City of Austin 2011 Consumer Report

There were no drinking water treatment violations in 2010,

The Utility is in compliance with the Total Organic Carbon (TOC) removal requirements in the Disinfection Byproducts Rule.

All surface water sources are known to be susceptible to contamination by Cryptosporidium. Because of this, the Utility monitors for Cryptosporidium in the drinking water and the lake water, which is the source of water to the two water treatment plants. The Utility has conducted increased monitoring for Cryptosporidium in advance of recently published regulations. During the 2011 monitoring, Cryptosportdium was not found. The water plants treat drinking water with a filtration process that has been shown to remove Cryptosporidium.

KEY

Treatment Technique

MCL = Maximum Contaminant Level

MCLG = Maximum Contaminant Level Goal

ppm =

parts per million or milligrams per liter

parts per billion or micrograms per liter ppb = ntu ≔ nephelometric turbidity units (a measure of turbidity)

Regulated at the Treatment Plant

DI DI LI COMPANIONE						
PARAMETER	MCL	MCLG	DATE	AVED		
Barium (ppm)	2	11000		AVE Result	High	Low
Fluoride (ppm)			2011	0,01	0.01	0.01
Nitrate (as N) (ppm)	4	4	2011	0,49	0,54	0,43
Turbity (ntu)		10	2011	0.09	0.10	
	TT	n/a	2011	0.05		0.08
100% of the readings were below .3 ntu	!		2011	0.03	0.16	0.02
	<u> </u>			i		1

Disinfection Byproducts Rule Regulated at the Treatment Plant

	The Date of the Control of the Contr	ne Treatment Plant						
	PARAMETER	MCL	MCLG	DATE	AVE Result	(8.6	· · · · · · · · · · · · · · · · · · ·	
	Raw Water Total Organic Carbon (ppm)	none	none	2011	3.5	High	Low	
i	Tap Water Total Organic Carbon (ppm)	none	попе	2011	2.46	4.74	2,95	
	TOC Removal Ratio (%)!	AVG>=I	none	2011	1.07	2.84	1.98	
ı	The TOC removal ratio is the percent of TOC	removed through the term			1,77	3.02	1.05	

I The TOC removal ratio is the percent of TOC removed through the treatment process divided by the percent of TOC required by TCEQ to be removed.

TCEQ requirement is to have a running annual average equal to or greater than 1.

Unregulated Contaminant Monitoring Regulations Reporting (UCMR)

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. Any unregulated contaminants detected are reported in the following table. For additional information and data visit http://www.epa.gov/safewater/ucmr/ucmr2/index.html, or call the Safe Drinking Water Hotline at (800) 426-4791.

	PARAMETER	MCL	MCLC	To the bare p	making water notiffe at (800	J) 426-4791.	
N.Nitrocodina	ethylamine (ppb)	MCL.	MCLG	DATE	AVE Result	High	Low
7 1111 O3OUIII	тиуталине (рро)	none	none	2010			LUW
Bromodichlor	omethane (ppb)	nana			0.0021	0.0022	<0.0021
Chlorodibrom	omethane (ppd)	none	none	2011	9.5	14.5	
CHIOTOGISTOIL	omemane (ppa)	none	none	2011			8.0
Chloroform (p	pd)				6	11.0	15.3
		none	none	2011	11.7	15 4	
i						13.4	[8.1