

# 2011 Consumer Confidence Report

**Water System Name:** Belmont Terrace Mutual Water Co. **Report Date:** June 29, 2012

*We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2011.*

**Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.**

**Type of water source(s) in use:** Groundwater Wells

**Name & location of source(s):** Well #2 is the primary water supply and Well#1 is used as a backup well. Well #1 was used for 5 days in February 2011 for water tank cleaning and for a couple of minor power failures during the year.

<b>Drinking Water Source Assessment information:</b>	Summary of 2003 vulnerability study is as follows:
<p>The sources (for Well#1 &amp; Well#2) are considered most vulnerable to the following activities not associated with contaminants detected in the water supply: Dry Cleaners,                  Underground storage tanks – confirmed leaking tanks.                  Historic gas stations,                  Septic systems (high density).</p> <p>Discussion of Vulnerability Well#1: Tetrachloroethylene (PCE) has been detected in this well. The source of the PCE is currently under investigation, but it probably coming from one of the two nearby dry cleaners. This source is also considered vulnerable to other activities located near the source. (Last detection was a trace amount in 2006.)</p> <p>Discussion of Vulnerability Well#2 (Main source of water): No known contaminants have been detected in this source, however tetrachloroethylene (PCE) has been detected in the water system’s standby well (see above). This source is also considered vulnerable to other activities located near the source.</p>	

**Time and place of regularly scheduled board meetings for public participation:** 2<sup>nd</sup> Tuesday of each month, 7pm at 855 Daniel Street, home of Sandy & Bob Pete.

**For more information, contact:** Bruce Petersilge or Debby Turner **Phone:** ( 707 ) 820-7787 (Bruce) or ( 707 ) 820-7633 (Debby)  
 Water Operators

## TERMS USED IN THIS REPORT

<p><b>Maximum Contaminant Level (MCL):</b> The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.</p> <p><b>Maximum Contaminant Level Goal (MCLG):</b> The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).</p> <p><b>Public Health Goal (PHG):</b> The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.</p> <p><b>Maximum Residual Disinfectant Level (MRDL):</b> 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</p>	<p><b>Primary Drinking Water Standards (PDWS):</b> MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.</p> <p><b>Secondary Drinking Water Standards (SDWS):</b> MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.</p> <p><b>Treatment Technique (TT):</b> A required process intended to reduce the level of a contaminant in drinking water.</p> <p><b>Regulatory Action Level (AL):</b> The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.</p> <p><b>Variations and Exemptions:</b> Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.</p> <p><b>ND:</b> not detectable at testing limit</p> <p><b>ppm:</b> parts per million or milligrams per liter (mg/L)</p>
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contaminants.  <b>Maximum Residual Disinfectant Level Goal (MRDLG):</b> 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.	<b>ppb:</b> parts per billion or micrograms per liter (ug/L) <b>ppt:</b> parts per trillion or nanograms per liter (ng/L) <b>ppq:</b> parts per quadrillion or picogram per liter (pg/L) <b>pCi/L:</b> picocuries per liter (a measure of radiation)
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**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.

**Contaminants that may be present in source water include:**

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- *Organic chemical contaminants*, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- *Radioactive contaminants*, that can be naturally-occurring or be the result of oil and gas production and mining activities.

**In order to ensure that tap water is safe to drink**, the USEPA and the state Department of Public Health (Department) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Department regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

**Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent.** The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The Department allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

<b>Microbiological Contaminants</b> (complete if bacteria detected)	<b>Highest No. of Detections</b>	<b>No. of months in violation</b>	<b>MCL</b>	<b>MCLG</b>	<b>Typical Source of Bacteria</b>
Total Coliform Bacteria	0	0	More than 1 sample in a month with a detection	0	Naturally present in the environment
Fecal Coliform or <i>E. coli</i>	0	0	A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>	0	Human and animal fecal waste

<b>TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER</b>						
<b>Lead and Copper</b> (complete if lead or copper detected in the last sample set)	<b>No. of samples collected</b>	<b>90<sup>th</sup> percentile level detected</b>	<b>No. sites exceeding AL</b>	<b>AL</b>	<b>PHG</b>	<b>Typical Source of Contaminant</b>
Lead (ppb)	5	<5	0	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits.
Copper (ppm)	5	0.094	0	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives.

<b>TABLE 3 – SAMPLING RESULTS FOR SODIUM AND HARDNESS</b>						
<b>Chemical or Constituent</b> (and reporting units)	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL</b>	<b>PHG (MCLG)</b>	<b>Typical Source of Contaminant</b>
Sodium (ppm) Well2	8/18/2009	51		none	none	Salt present in the water and is generally naturally occurring.
Backup-Well1	5/1/2006	23				
Hardness (ppm) Well2	8/18/2009	120		none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring.
Backup-Well1	5/1/2006	36				

\*Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

<b>TABLE 4 – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD</b>						
<b>Chemical or Constituent</b> (and reporting units)	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
Arsenic (ppb) Well2	8/18/200	3.5		10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes.
Barium (ppb) Backup Well#1	5/1/2006	280		1000	2	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits.
Chromium (ppb) Well2	8/18/2009	2.3		50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits.
Backup-Well1	5/1/2006	6.5				
Fluoride (ppm) Well2	8/18/2009	.22		2.0	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories.
Nickel (ppb) Backup-Well1	5/1/2006	16.00		100	12	Erosion of natural deposits; discharge from metal factories.
Nitrate (as nitrate, NO <sub>3</sub> ) (ppm) Well2	3/21/2011	5.1		45	45	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits.
Backup-Well1	3/6/2011	20.00				
Gross Alpha Particle Activity (pCi/L) Backup-Well1	5/1/2006	0.23		15	0	Erosion of natural deposits. Certain minerals are radioactive and may emit a form of radiation known as alpha radiation. Some people who drink water containing alpha emitters in excess of the MCL over many years may have an increased risk of getting cancer.

**TABLE 4 – CONT – DETECTION OF CONTAMINANTS WITH A PRIMARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
TTHMs (Total Trihalomethanes) (ppb) Distribution System	7/11/2010	10.00		80	N/A	Byproduct of drinking water disinfection.
Haloacetic Acids (ppb) Distribution System	7/13/2010	2.68		60	N/A	Byproduct of drinking water disinfection.

**TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Color (Units) Well2 Backup-Well1	8/18/2009 5/1/2006	3.0 3.0		15		Naturally-occurring organic materials.
Iron (ppm) Backup-Well1	5/1/2006	430.0		300		Leaching from natural deposits; industrial wastes.
Odor (Units) Well2	8/18/2009	1.20		3		Naturally-occurring organic materials.
Turbidity (Units) Well2 Backup-Well1	8/18/2009 5/1/2006	0.42 3.30		5		Soil runoff.
Total Dissolved Solids (TDS) (ppm) Well2 Backup-Well1	8/18/2009 5/1/2006	220 150		1000		Runoff/leaching from natural deposits.
Specific Conductance Well2 (µS/cm) Backup-Well1	8/18/2009 5/1/2006	310 190		1600		Substances that form ions when in water; seawater influence.
Chloride (ppm) Well2 Backup-Well1	8/18/2009 5/1/2006	11.00 18.00		500		Runoff/leaching from natural deposits; seawater influence.
Sulfate (ppm) Well2 Backup-Well1	8/18/2009 5/1/2006	12.00 6.40		500		Runoff/leaching from natural deposits; industrial wastes.

**TABLE 6 – DETECTION OF UNREGULATED CONTAMINANTS**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects Language
N/A					

\*Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

### Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA’s Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

*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. Belmont Terrace Mutual Water Company 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>.*

### Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT				
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language
Exceeding secondary MCL standard for Iron (Backup well#1)	(SEE BELOW)	Used for 3 days in Feb 21-24, 2011 during cleaning of water storage tank.	We only use this well when Well#2/storage tank is not available to pressurize water system.	This exceedance is not considered to be a health risk
<i>Iron was found at levels that exceed the secondary MCL of 300 ug/L. The iron MCL was set to protect you against unpleasant aesthetic effects (e.g., color, taste, and odor) and the staining of plumbing fixtures (e.g., tubs and sinks) and clothing while washing. The high iron levels are due to leaching of natural deposit.</i>				

### For Water Systems Providing Ground Water as a Source of Drinking Water

TABLE 7 – SAMPLING RESULTS SHOWING FECAL INDICATOR-POSITIVE GROUND WATER SOURCE SAMPLES					
Microbiological Contaminants (complete if fecal-indicator detected)	Total No. of Detections	Sample Dates	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
<i>E. coli</i>	0	Monthly	0	(0)	Human and animal fecal waste
Enterococci	0	Monthly	TT	n/a	Human and animal fecal waste
Coliphage	0	Monthly	TT	n/a	Human and animal fecal waste