2012 Annual Drinking Water Quality Report:
City of Long Beach:

We're pleased to present to you our annual quality report. This report is designed to inform you about the quality of water we deliver to you everyday. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

The City of Long Beach routinely monitors for contaminants in your drinking water according to federal and state laws. The tables show the results of our monitoring for the period of January 1st to December 31st 2012. All drinking water, including bottled water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember that the presence of these contaminants doesn't necessarily pose a health risk.

Abbreviations used below:

Maximum Contaminant Level (MCL), Disinfection By Products (DBP), Trihalomethanes (TTHM), Inorganic organic chemicals (IOC), Synthetic organic chemicals (SOC), Volatile organic chemicals (VOC) Nephelometric turbidity unit (NTU) a measurement of how dirty or clean the water is.

Definitions:

(HAA5) Halo acetic Acids. These are Byproducts of chlorination. Some people who drink water containing these in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous systems, and may have an increased risk of getting cancer.

Total Coli form = (TC) - are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present.

Fecal Coli forms = (FC) & E.Coli – are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Microbes in these waters can cause short term effects, such as diarrhea, cramps, nausea, & headaches. They may pose a special health risks for infants, young children, and people with severely comprised immune systems.

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.

All sources of drinking water are subject to potential contaminants that are naturally occurring or man made. Those contaminants can be microbes, organic or inorganic chemicals or radioactive materials. Use EPA's HOTLINE at 800-426-4791 for more information about contaminants and potential health effects.

MCL's are set at very stringent levels. To understand the possible health effects described, a person would have to drink 2 liters of water everyday at the MCL level for a lifetime to have a one in a million chance of having the described health effects.

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

Contaminant	Violation Y/N	Level Detected	MCLG	MCL	Likely Source
Total Coliform Bacteria:	No	0	0	0	Naturally present in the environment:
Fecal Coliform & E.Coli.	No	0	0	0	Animal & Human Fecal Waste
Turbidity	No	22 - 68 ntu for Raw water	0	1 ntu	Soil Runoff. We had a 0.04 ntu as an average going to town for the year.
TTHM Trihalomethanes	No	78 ug/l	0	80 ug/l	Byproduct of drinking water Chlorination tested Quarterly
HAA5 Halo acetic Acids	No	8.9 ug/l	0	60 ug/l	Byproduct of drinking water Chlorination tested Quarterly
IOC	No	Metals, salts, & other chemical compounds that don't contain carbon. Such as aluminum, molybdenum, nitrite, & cyanide to name a few. Tests done yearly which includes (Nitrite & Nitrate Testing. No Violations:			
SOC	No	Man made compounds which are used throughout the world in pesticides, paints, dyes, solvents, plastics, & food additives. Waiver granted No Sampling required thru December 2013.			
VOC	No	Are subcategories of organic chemicals these are termed volatile because they evaporate easily. Most commonly found in drinking water as a by product of chlorination. No Violations:			
Radionuclide's	No	Gross Alpha & Radium 228 No Violation:			
Asbestos	No	Testing for asbestos fibers. These occur when using asbestos pipe.			

Our Water Sources:

Our water sources are spring & run-off fed. Dohman (known as SO-4) & the Main Impoundment (known as SO-1) are our primary sources, with Mattix (known as SO-3) being used mostly in the summer to help refill the SO-1.

Our Treatment Plant :

The operator can select the desired volume of raw water that is to be pumped to the Plant via variable speed pumps. The operator can blend the 2 resiviors if he wants based on water quality. We add a ACH blend which help's reduce TOC's. We sample treated raw water looking for a 80% to 90% (TOC) total organic removal. That dosage is entered so the plant will run at that removal percentage. We add sodium bicarbonate to raise alkilinity on the raw water which aids in organic removal. The raw water is then pumped thru the membranes. Clean filtered water is dosed with chlorine as it enters the clearwell for detention time to allow for disinfection. Water is then pumped to our two holding tanks, each holds a million gallons. As it is being pumped to the holding tanks, Soda Ash is added to raise the pH to 7.0 -8.0 just a little above neutral. and we are sampling the finished water chlorine residual to the tanks and to town. Keeping it at 0.75 - 1.00 mg/l. This insures us that we'll see a residual thru out our distribution system.

The City of Long Beach is committed to providing top quality water to every tap. We ask our customers to help us protect our water sources, which are the heart of our community, our way of life and our children's future. Please call us at 360-642-3163 or email at lbwtph2o@yahoo.com. Ask for Jake Binion or Rick Gray.