

# ABILENE WATER ANALYSIS – 2007

Regulated Substance	Greatest Amount Detected	Range		MCL	MCLG	Violation	Possible Sources
		Low	High				
<b>Total Coliforms</b>	Present in 0.8% of samples in highest month	0	0.8	Present in 5% of samples each month	0	NO	Naturally present in the environment
<b>Fluoride (ppm)</b>	0.72	0.62	0.72	4	4	NO	Erosion of natural deposits; water additive for strong teeth; discharge from fertilizer and aluminum factories
<b>Barium (ppm)</b>	0.159	0.124	0.159	2	2	NO	Erosion of natural deposits; discharge from drilling wastes.
<b>Nitrate (ppm)</b>	0.17	0.09	0.17	10	10	NO	Erosion of natural deposits; runoff from fertilizer use; leaching from septic tanks or sewage
<b>Lead (ppb)</b>	3.6 in 90 <sup>th</sup> percentile	0 sites above action level		15 action level	0	NO	Corrosion of household plumbing, service connections
<b>Copper (ppm)</b>	0.259 in 90 <sup>th</sup> percentile	0 sites above action level		1.3 action level	1.3	NO	Corrosion of household plumbing, service connections
<b>Total Trihalomethanes (ppb)</b>	113	40.7	113	80	N/A	NO	By-product of drinking water disinfection
<b>Haloacetic Acids (ppb)</b>	18.4	18.4	50.2	60	N/A	NO	By-product of drinking water disinfection
<b>Total Organic Carbon</b>	5.2	2.4	5.2	TT	N/A	NO	Naturally present in environment.
<b>Arsenic (ppb)</b>	2	ND	2	50	0	NO	Erosion of natural deposits.
<b>Selenium (ppb)</b>	6	3	6	50	50	NO	Erosion from natural deposits; discharge from petroleum refineries
<b>Alpha Particles (pCi/L)</b> Sampled in 2002 per TCEQ	ND	ND	ND	15 pCi/L	0	NO	Erosion of natural deposits.
<b>Beta Particles (pCi/L)</b> Sampled in 2002 per TCEQ	8.9	6.8	8.9	50	0	NO	Decay of natural and man made deposits.
<b>Radium 228 (pCi/L)</b> Sampled in 2002 per TCEQ	ND	ND	ND	50	0	NO	Decay of natural deposits.
<b>Chlorite (ppm)</b>	0.92	ND	0.92	1.00	0.8	NO	By-product of drinking water chlorination.
<b>Turbidity (NTU)</b>	Greater than 99.8% of all of the samples were below the TT value of 0.3. A value less than 95% constitutes a TT violation. The highest measurement was 0.60. Any single measurement in excess of 1 is a violation.				N/A	NO	Soil runoff

## What does it mean?

**MCL (Maximum Contaminant Level)** - The highest level of a substance that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using best available treatment technology.

**MCLG (Maximum Contaminant Level Goal)** - The level of a substance in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.

**TT (Treatment Technique)** - A required process intended to reduce the level of a substance in drinking water.

**Action Level** - the concentration of a substance, which, if exceeded, triggers treatment or other requirements which a water system must follow.

**ppm** - Parts per million. Unit of measure of the milligrams of a substance in a liter of water (mg/l)

**ppb** - Parts per billion. Unit of measure of the micrograms of a substance in a liter of water (ug/l)

**NTU** - Nephelometric turbidity units. Unit of measure of the turbidity (cloudiness) of the water

**pCi/L** - picocuries per liter. Unit of measure of radioactivity.

**ND** - not detected

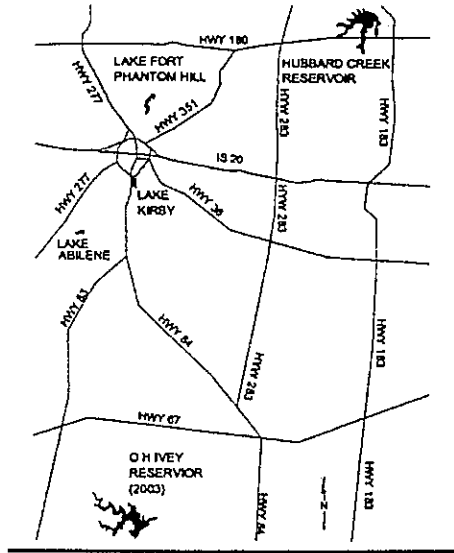
**Secondary/Non-regulated Substances** - The chart below lists other items for which the water is tested. These items do not relate to public health, but rather to the aesthetic properties of the water. These parameters are often important to industrial water users.

Substance	Avg Detected	Range Detected	Substance	Avg Detected	Range Detected
Alkalinity as CaCO <sub>3</sub> (ppm)	106	62-133	Nickel (ppm)	0.003	0.001 - 0.006
Aluminum (ppm)	0.05	ND - 0.078	Sodium (ppm)	80	59 - 121
Calcium (ppm)	52	50 - 55	Sulfate (ppm)	118	81-181
Chloride (ppm)	193	180-214	Total Dissolved Solids (ppm)	587	549-658
Hardness as CaCO <sub>3</sub> (ppm)	228	210 - 262	pH (pH Units)	8.0	7.5 - 8.3
Magnesium (ppm)	24	21 - 30	Manganese (ppm)	0.003	0.002 - 0.004
Dibromomethane (ppb)	0.4	ND-1.2			

## Where does our water come from?

Tye's water comes from the City of Abilene and Abilene's water come from four surface water sources...

- Lake Abilene: in south Taylor County
- Lake Ft. Phantom: north of Abilene
- Lake Hubbard Creek: between Albany and Breckenridge
- Lake Kirby: in south Abilene is reserved for landscape irrigation
- Lake O. H. Ivie: near Coleman



## To express your opinion....

The City of Tye Water Department 692-8588.  
The City of Abilene Water Utilities Department is governed by the Abilene City Council, which meets on the second and fourth Thursdays of each month at 9:00 a.m. in City Council Chambers, City Hall, 555 Walnut. You may also contact the Department Director at 325-676-6416.

## Messages from the EPA....

Contamination may occur as the water travels over the surface of the land, dissolving naturally occurring minerals, radioactive material, or picking up substances resulting from the presence of animals or from human activity.

“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 water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA’S SAFE DRINKING WATER HOTLINE (800) 426-4791.

SPECIAL NOTICE FOR ELDERLY, INFANTS, CANCER PATIENTS, people with HIV/AIDS or other immune problems: Some people may be more vulnerable to chemical contaminants than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, person 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. Additional guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA’S SAFE DRINKING WATER HOTLINE (800) 426-4791.”

City of Tye, Water Utilities Dept.  
205 North Street, PO Box 369 Tye, TX 79563  
325-692-8588

**WATER UTILITIES DEPARTMENT**  
**WATER QUALITY REPORT**  
January through December 2007

The City of Abilene Water Department is dedicated to providing high quality water at the lowest cost possible. The City’s water reservoirs provide good quality raw water. Trained certified operators

consistently treat water to meet or exceed federal and state drinking water quality standards. Water is analyzed in all stages of production...from the City’s creeks, lakes, treatment plants, and distribution system to customers’ homes to assure it is the best it can be.

You may notice occasional changes in the water’s taste and/or odor. Water from different reservoirs will have different tastes/odors. Water in reservoirs can take on different tastes/odors as a result of temperature changes, heavy rainfall, high winds, or algae growth. The water is safe to drink.

The information in this report is being provided to you in accordance with EPA/TNRCC requirements. If you would like more information about Abilene’s water quality, call the City of Abilene Environmental Laboratory at 915-676-6041.

En Espanol: Este informe contiene informacion muy importante sobre su agua de beber. Traducie o hable con alguien que lo entienda bien.