

**2015**  
*City of Del City Annual Drinking Water Report*  
***Quality Water on Tap***

We're pleased to present to you, our customers, this year's Annual Quality Water Report.

- 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 insuring the quality of your water.**

Our primary water source is surface water which is pumped from Lake Thunderbird, often affectionately called Lake “Dirtybird” by area residents, because of the red color. Fortunately, this color, which is caused by the turbidity (suspended solids), can and is removed at the water treatment plant. The solids removed during the treatment process are then dried and recycled as fill dirt.

The lake water is further treated by filtration utilizing multi-media filters, comprised of sand, gravel, and Granulated Activated Carbon (GAC). GAC eliminates objectionable taste and odor components that are commonly found in surface water. To maintain the media quality it is replaced every 2 years by replacing the GAC in 2 filters each year.

In addition your water is:

- Disinfected with chlorine gas
- Stabilized with caustic soda to cut down the corrosive nature of the water.
- Fluoride additives to help strengthen teeth

The Water Treatment Plant treated 477,179 million gallons of water during 2015.

Our secondary water source is groundwater which is drawn from the Garber – Wellington Shale/Sandstone formations. Our high quality well water is used to augment the more expensive surface water. Our wells produced approximately 209,455 million gallons of water during 2015.

Del City is committed not only to maintain, but improve, the entire treatment system in order to remain in compliance with existing and future EPA regulations allowing us to produce quality water.

The drinking water we produce is tested on a regular basis to make sure that it meets and/or exceeds the EPA’s and DEQ’s standards. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It’s important to remember that the presence of these constituents does not necessarily pose a health risk.

The following table shows the results of our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2015 per DEQ records. The table shows only those contaminants that were detected.

# 2015 Lab Information for Consumer Confidence Report

## MICROBIAL CONTAMINANTS

<u>PARAMETER</u>	<u>COMPLIANCE PERIOD</u>	<u>LEVEL DETECTED</u>
COLIFORM (TCR)	2015	1

## TURBIDITY

<u>PARAMETER</u>	<u>DATE</u>	<u>HIGHEST AVERAGE MONTHLY VALUE</u>
TURBIDITY	June 2015	0.10 NTU
<u>PARAMETER</u>	<u>DATE</u>	<u>HIGHEST SINGLE MEASUREMENT</u>
TURBIDITY	March 2015	0.27 NTU

## TOTAL ORGANIC CARBON

<u>PARAMETER</u>	<u>DATE</u>	<u>AVG. OF REQ'D % REMOVAL</u>	<u>RANGE OF ACTUAL % REMOVAL</u>
TOTAL ORGANIC CARBON	2014	25%	27 % - 88 %

## NITRATE / NITRITE AND RADIOACTIVE CONTAMINANTS

<u>PARAMETER</u>	<u>DATE</u>	<u>AVG. DETECTED</u>	<u>RANGE DETECTED</u>
NITRATE-NITRITE as NITROGEN	2015	0.28 mg/L	0.0 mg/L – 0.30 mg/L
NITRATE	2004	0.47 mg/L	0.44 mg/L - 0.50 mg/L
GROSS BETA PARTICLE ACTIVITY	2014	2.075pCi/L	2.00 pCi/L – 2.150 pCi/L

## INORGANIC CONTAMINANTS

<u>PARAMETER</u>	<u>DATE</u>	<u>AVG. DETECTED</u>	<u>RANGE DETECTED</u>
BARIUM	2012	295 ug/L	0.364 ug/L – 0.412 ug/L
FLUORIDE	2015	0.64 mg/L	0.26 mg/L – 1.06 mg/L

## LEAD OR COPPER 90% VALUE OR SAMPLES ABOVE THE ACTION LEVEL

<u>PARAMETER</u>	<u>DATE</u>	<u>RANGE DETECTED</u>
COPPER 90 <sup>TH</sup> PERCENTILE	3Y 2013	COPPER 13.4 ug/L – 7.54 ug/L LEAD 0 - <5.00
<u>PARAMETER</u>	<u>DATE</u>	<u>NUMBER OF SAMPLES ABOVE ACTION LEVEL</u>
LEAD	3Y 2013	0

## Disinfectant

	<u>DATE</u>	<u>MAX. LEVEL DETECTED POE</u>	<u>Average POE</u>
Chlorine	2015	1.5 mg/L	1.2 mg/L

## DISINFECTION BY PRODUCT CONTAMINANTS “STAGE 2”

<u>PARAMETER</u>	<u>DATE</u>	<u>MCLG</u>	<u>MAX. LEVEL YEARLY AVG.</u>	<u>AVG. RANGE DETECTED</u>
TOTAL TRIHALOMETHANES (TTHM)	2015	80 ug/L	69.425 ug/L	29.75 ug/L – 69.425 ug/L
TOTAL HALOCETIC ACIDS (HAA5)	2015	60 ug/L	21.875 ug/L	6.0 ug/L – 21.875 ug/L

## RADIOCHEMICAL CONTAMINANTS

<u>PARAMETER</u>	<u>DATE</u>	<u>AVG. DETECTED</u>	<u>RANGE DETECTED</u>
GROSS ALPHA, EXCL. RADON & U	2014	3.325 pCi/L	3.27 pCi/L – 3.38 pCi/L
COMBINED URANIUM	2014	1.20 ug/L	1.0 ug/L 1.20 ug/L
COMBINED RADIUM (-226 & -228)	2014	<2.075 pCi/L	<2.170 pCi/L – 2.250 pCi/L
<b>Arsenic Total</b>	2012	< 2.00 ug/L	
<b>Cryptosporidium/Giardia</b>	2007 - 2009	0.008 oocyst/L present	0 – 0.10 oocyst/L present

*MCLG (Maximum Contaminate Goal) The level of a contaminant in drinking water. No know or expected risk to health. MCLG allow for margin of safety*

*mg/L (milligrams per liter) - one part per million corresponds to one minute in two years or a single penny in \$10,000.*

*NTU (Nephelometric Turbidity Unit) - nephelometric turbidity unit a measure of water clarity.*

*pCi/L (picocuries per liter) - a measure of radioactivity, Curie is a unit of radioactivity equivalent to 1 gram of radium and the prefix "pico" mean trillionth.*

*POE (Point of Entry)The point where the treated water enters the distribution system.*

*RAA (Running Annual Average) Average of the last 12 months, or last 4 quarters that facility is in operation*

*ug/L (Micrograms per liter) - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.*

**Microbial Contaminant level detected defined:**

Even though there was one (1) positive for a possible microbial contaminants in the distribution system, there was NO E-coli found. Once we were notified by DEQ of a possibility of a contaminant we collected 9 additional samples, including the trigger site and surrounding area plus all other sites required by EPA and DEQ. Results of all additional test showed NO harmful contaminants.

Confirming the safety of Del-City Water.

To ensure the safety of our water to our consumers we pull over 300 samples to check for microbial contaminations each year

What does this mean?

Your drinking water meets or exceeds all Federal and State requirements. The **EPA** has determined that your water **IS SAFE** at the levels detected and our facility is in complete compliance.

All sources of drinking water are subject to potential contamination. 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 Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

**Advisory Notice from EPA**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immune-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. 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 Hotline (800-426-4791).

**From Storm Water to Drinking Water**

Many people may be surprised to find out that storm water that travels through the street, creeks and streams become our drinking water. Everyone has an impact on storm water, including our pets. Every time we over fertilize our lawn, wash our cars in the driveway, spread ice melt during the winter or allow trash or grass clippings to collect in our streets, we adversely impact the quality of the water that ultimately becomes our own drinking water. Construction site runoff that carries sediment to our creeks is the biggest offender. If you happen to see anyone causing an illicit discharge or disposing of anything into our creeks, call either Code Enforcement at 670-7379 or Public Works at 671-2874.

If you have any questions about this report or concerning your water utility, please contact Alan Coffin, Water Supervisor, at (405) 671-2871.