



Colorado Department of Public Health and Environment  
Water Quality Control Division  
Compliance Assurance and Data Management Unit

CCR Certificate of Delivery Form

**\*\*Submit this certification form and a copy of the completed CCR no later than June 30\*\***

System Name: ELIZABETH TOWN OF

PWSID: CO0 120010

The community water system named above hereby confirms that its consumer confidence report has been distributed to customers (or appropriate notices of availability have been given). Further, the system certifies the information contained in the report is correct and consistent with the compliance monitoring data previously submitted to the Colorado Department of Public Health and Environment.

Certified by: (Please print name) Michael Gibbs

Title: Public Works Director

Phone Number: 303-646-0916

Date: May 30 2014

Signature: [Signature]

**Sections 1 and 2 MUST be completed.**

**1) CCR was distributed by: (One must be checked.)**

- ☐ Mailing, or  
☐ Electronic mail (email distribution must be separate from billing), or  
☐ Direct delivery by \_\_\_\_\_; or  
☐ Direct delivery waiver. (The system must meet one of the below.)

**Direct Delivery Waivers** (only complete one of the below if the system is qualified to waive the Direct Delivery Requirement)

a) **The system serves 500 or fewer** persons and provided notice to its customers by mail, door-to-door delivery or by posting in an appropriate location that the report is available upon request (attach a list of locations).

- ☐ Mail;  
☐ Direct Delivery by \_\_\_\_\_; or  
☐ Posting in appropriate locations (attach a list of locations).

b) **The system serves less than 10,000** persons, qualifies for a direct delivery waiver, **and** has completed all of the following requirements:

- ☐ Published the reports in the following newspaper(s) \_\_\_\_\_ on \_\_\_\_\_; and  
☐ Informed the customers the reports would not be mailed in the following manner: \_\_\_\_\_ on \_\_\_\_\_; and  
☒ Made the reports available to the public upon request.

**2) "Good faith" efforts are required. Please indicate which were completed.**

To reach non-bill paying consumers the system: (Systems that serve 100,000 or more must post the CCR online.)

- ☒ Posted the CCR on the Internet at http://www.townofelizabeth.org;  
☐ Mailed the CCR to postal patrons within the service area (attach a list of zip codes used);  
☐ Published the CCR in local newspaper (attach copy) \_\_\_\_\_;  
☐ Posted the CCR in public places \_\_\_\_\_;  
☐ Delivered multiple copies to single bill addresses serving several persons (such as: apartments, businesses, etc); or  
☐ Other \_\_\_\_\_.

**3) Using the CCR as public notification for system violations (i.e., Monitoring/Reporting Violation, or Secondary Fluoride MCL).**

☐ The system is using the CCR to fulfill Public Notification requirements for the following system violations:

List the violation(s): \_\_\_\_\_

Email in .PDF to: [cdphe.drinkingwater@state.co.us](mailto:cdphe.drinkingwater@state.co.us)  
Or Fax to: 303-758-1398

Or Mail to: CDPHE-WQCD-B2  
ATTN: CAS-CCR  
4300 Cherry Creek Drive South  
Denver, CO 80246-153



## TOWN OF ELIZABETH 2014 Drinking Water Quality Report For Calendar Year 2013

*Public Water System ID: CO0120010*

**Esta es información importante. Si no la pueden leer, necesitan que alguien se la traduzca.**

We are pleased to present to you this year's water quality report. Our constant goal is to provide you with a safe and dependable supply of drinking water. Please contact MICHAEL GIBBS at 303-419-5631 with any questions about the Drinking Consumer Confidence Rule (CCR) or for public participation opportunities that may affect the water quality.

### General Information

All 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 Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791) or by visiting <http://water.epa.gov/drink/contaminants>.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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 of infections. These people should seek advice about drinking water from their health care providers. For more information about contaminants and potential health effects, or to receive a copy of the U.S. Environmental Protection Agency (EPA) and the U.S. Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and microbiological contaminants call the EPA Safe Drinking Water Hotline at (1-800-426-4791).

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

In order to ensure that tap water is safe to drink, the Colorado Department of Public Health and Environment prescribes

regulations limiting the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

### Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems (especially for pregnant women and young children). It is possible that lead levels at your home may be higher than other homes in the community as a result of materials used in your home's plumbing. If you are concerned about lead in your water, you may wish to have your water tested. 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. Additional information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (1-800-426-4791) or at <http://www.epa.gov/safewater/lead>.

### Source Water Assessment and Protection (SWAP)

The Colorado Department of Public Health and Environment has provided us with a Source Water Assessment Report for our water supply. For general information or to obtain a copy of the report please visit <http://wqcdcompliance.com/ccr>. The report is located under "Source Water Assessment Reports", and then "Assessment Report by County". Select ELBERT County and find 120010; ELIZABETH TOWN OF or by contacting MICHAEL GIBBS at 303-419-5631. The Source Water Assessment Report provides a screening-level evaluation of potential contamination that could occur. It does not mean that the contamination has or will occur. We can use this information to evaluate the need to improve our current water treatment capabilities and prepare for future contamination threats. This can help us ensure that quality finished water is delivered to your homes. In addition, the source water assessment results provide a starting point for developing a source water protection plan. Potential sources of contamination in our source water area are listed on the next page.

Please contact us to learn more about what you can do to help protect your drinking water sources, any questions about the Drinking Water Consumer Confidence Report, to learn more about our system, or to attend scheduled public meetings. We want you, our valued customers, to be informed about the services we provide and the quality water we deliver to you every day.

## Our Water Sources

<u>Source</u>	<u>Source Type</u>	<u>Water Type</u>	<u>Location</u>
NEW LOWER DAWSON WELL	WL	GW	882 Pine Ridge Street
UPPER DENVER WELL	WL	GW	1392 Pine Ridge Street
ARAPAHOE WELL	WL	GW	882 Pine Ridge Street

## Terms and Abbreviations

- **Maximum Contaminant Level (MCL)** – The highest level of a contaminant allowed in drinking water.
- **Treatment Technique (TT)** – A required process intended to reduce the level of a contaminant in drinking water.
- **Action Level (AL)** – The concentration of a contaminant which, if exceeded, triggers treatment and other regulatory requirements.
- **Maximum Residual Disinfectant Level (MRDL)** – 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 contaminants.
- **Maximum Contaminant Level Goal (MCLG)** – The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** – 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.
- **Violation (No Abbreviation)** – Failure to meet a Colorado Primary Drinking Water Regulation.
- **Formal Enforcement Action (No Abbreviation)** – Escalated action taken by the State (due to the risk to public health, or number or severity of violations) to bring a non-compliant water system back into compliance.
- **Variance and Exemptions (V/E)** – Department permission not to meet a MCL or treatment technique under certain conditions.
- **Gross Alpha (No Abbreviation)** – Gross alpha particle activity compliance value. It includes radium-226, but excludes radon 222, and uranium.
- **Picocuries per liter (pCi/L)** – Measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** – Measure of the clarity or cloudiness of water. Turbidity in excess of 5 NTU is just noticeable to the typical person.
- **Compliance Value (No Abbreviation)** – Single or calculated value used to determine if regulatory contaminant level (e.g. MCL) is met. Examples of calculated values are the 90<sup>th</sup> Percentile, Running Annual Average (RAA) and Locational Running Annual Average (LRAA).
- **Average (x-bar)** – Typical value.
- **Range (R)** – Lowest value to the highest value.
- **Sample Size (n)** – Number or count of values (i.e. number of water samples collected).
- **Parts per million = Milligrams per liter (ppm = mg/L)** – One part per million corresponds to one minute in two years or a single penny in \$10,000.
- **Parts per billion = Micrograms per liter (ppb = ug/L)** – One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
- **Parts per trillion = Nanograms per liter (ppt = ng/L)** – One part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.
- **Parts per quadrillion = Picograms per liter (ppq = pg/L)** – One part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000,000.
- **Not Applicable (N/A)** – Does not apply or not available.

## Detected Contaminants

TOWN OF ELIZABETH routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table(s) show all detections found in the period of January 1 to December 31, 2013 unless otherwise noted. The State of Colorado requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants

are not expected to vary significantly from year to year, or the system is not considered vulnerable to this type of contamination. Therefore, some of our data, though representative, may be more than one year old. Violations and Formal Enforcement Actions, if any, are reported in the next section of this report.

**Note:** Only detected contaminants sampled within the last 5 years appear in this report. If no tables appear in this section then no contaminants were detected in the last round of monitoring.

Lead and Copper Sampled in the Distribution System								
Contaminant Name	Time Period	90 <sup>th</sup> Percentile	Sample Size	Unit of Measure	90 <sup>th</sup> Percentile AL	Sample Sites Above AL	90 <sup>th</sup> Percentile AL Exceedance	Typical Sources
Copper	06/15/2013 to 06/18/2013	0.18	10	ppm	1.3		No	Corrosion of household plumbing systems; Erosion of natural deposits
Lead	06/15/2013 to 06/18/2013	4	10	ppb	15		No	Corrosion of household plumbing systems; Erosion of natural deposits

Disinfection Byproducts Sampled in the Distribution System										
Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	Highest Compliance Value	MCL Violation	Typical Sources
Total Haloacetic Acids (HAA5)	2012	1.72	1.72 to 1.72	1	ppb	60	N/A		No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM)	2012	4.2	4.2 to 4.2	1	ppb	80	N/A		No	Byproduct of drinking water disinfection

**Radionuclides Sampled at the Entry Point to the Distribution System**

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Gross Alpha	2011	1.75	0 to 3.5	2	pCi/L	15	0	No	Erosion of natural deposits
Combined Radium	2011	0.86	0.44 to 1.07	3	pCi/L	5	0	No	Erosion of natural deposits
Combined Uranium	2011	1.52	1.33 to 1.7	2	ppb	30	0	No	Erosion of natural deposits
Gross Beta Particle Activity	2011	5.67	3.2 to 6.9	3	pCi/L*	50	0	No	Decay of natural and man-made deposits

\*The MCL for Gross Beta Particle Activity is 4 mrem/year. Since there is no simple conversion between mrem/year and pCi/L EPA considers 50 pCi/L to be the level of concern for Gross Beta Particle Activity.

**Inorganic Contaminants Sampled at the Entry Point to the Distribution System**

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
Antimony	2011	0.05	0.05 to 0.05	1	ppb	6	6	No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	2011	6.67	6.67 to 6.67	1	ppb	10	0	No	Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production wastes
Barium	2011	0.03	0.03 to 0.03	1	ppm	2	2	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chromium	2011	0.42	0.42 to 0.42	1	ppb	100	100	No	Discharge from steel and pulp mills; erosion of natural deposits
Fluoride	2011	0.46	0.46 to 0.46	1	ppm	4	4	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum

**Inorganic Contaminants Sampled at the Entry Point to the Distribution System**

Contaminant Name	Year	Average	Range Low – High	Sample Size	Unit of Measure	MCL	MCLG	MCL Violation	Typical Sources
									factories
Nitrate	2013	0.3	0.3 to 0.3	1	ppm	10	10	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Selenium	2011	3	3 to 3	1	ppb	50	50	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines
<p><b>Arsenic:</b> while your drinking water <i>meets the EPA's standard for arsenic, it does contain low levels of arsenic</i>. The EPA's standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.</p>									

**Violations, Significant Deficiencies, and Formal Enforcement Actions**

**No Violations or Formal Enforcement Actions**

