



**City of Cayce  
Water Treatment Plant  
2013 Annual Water Quality Report  
System ID # SC3210003**



Dear Customer: We are pleased to present a summary of the quality of the water provided to you from January 1 to December 31, 2013. The Safe Drinking Water Act (SDWA) requires that utilities issue an annual "Consumer Confidence Report" to customers in addition to other notices that may be required by law. This report details where our water comes from, what it contains, and the risks our water testing and treatment are designed to prevent. The City of Cayce Water Treatment Plant is committed to providing you with the safest and most reliable water supply. Informed customers are our best allies in maintaining safe drinking water. For more information regarding this report contact Vince Osborne @ 803-739-5375 or [vosborne@cityofcayce-sc.gov](mailto:vosborne@cityofcayce-sc.gov).

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

**City of Cayce Water Treatment Plant's drinking water meets or surpasses all federal and state drinking water standards.**

Call us for information about opportunities for public participation in decisions about our drinking water at our Utilities Department at 803-796-9020. Our City Council also meets the first Tuesday of each month in the City Council Chambers at City Hall at 6:00 P.M.

**Water Source**

Our system was supplied water solely from the City of Cayce. Cayce gets its water from the Congaree River.

**Source Water Assessment**

SCDHEC has developed a Source Water Assessment for the City of Cayce and is current as of April 2011. The plan can be viewed on the web at: [http://www.scdhec.gov/environment/water/wq\\_plan.htm](http://www.scdhec.gov/environment/water/wq_plan.htm)

**An Explanation of the Water-Quality Data Table**

The table shows the results of our water-quality analyses. Every regulated contaminant that we detected in the water, even in the minutest traces, is listed here. The table contains the name of each substance, the highest level allowed by regulation (MCL), the ideal goals for public health, the amount detected, the usual sources of such contamination, footnotes explaining our findings, and a key to units of measurement. Definitions of MCL and MCLG shown below are important.

The data presented in this report is from the most recent testing done in accordance with regulations.

**Key To Table**

<p><b>AL</b> Action Level: The concentration of a contaminant, which if exceeded, triggers treatment or other requirements that a water system must follow</p> <p><b>MCLG</b> Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety.</p> <p><b>NTU</b> Nephelometric Turbidity Units: A measure of the clarity of the water.</p> <p><b>MRDL</b> The highest level of a residual disinfectant that is allowed in drinking water.</p> <p><b>MCL</b> Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG as feasible using the best available treatment technology. MCL's are set at very stringent levels. To understand the possible health effects described for many regulated constituents, a person would have a one-in-a-million chance of having the described health effect.</p> <p><b>N/A</b> Non Applicable</p>	<p><b>PPM</b> Parts per million, or milligrams per liter (mg/l). Corresponds to one ounce in 7350 gallons water</p> <p><b>PPB</b> Parts per billion, or micrograms per liter (µg/l). Corresponds to one ounce in 7,350,000 gallons water</p> <p><b>TT</b> Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.</p> <p><b>RAA</b> Running Annual Average: One year's data available.</p> <p><b>pCi/L</b> Pico Curies Per Liter: A measure of radioactivity.</p> <p><b>MRDLG</b> The level of disinfectants in drinking water below which there is no known or expected risk of health. MRDLG allows for a margin of safety.</p> <p><b>MRL</b> Minimum Risk Level: An MRL is an estimate of the daily human exposure to a hazardous substance that is likely to be without appreciable risk of adverse non-cancer health effects over a specified duration of exposure.</p>
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**Regulated Contaminants**

Inorganic Contaminants

	Year Sampled	Unit	MCL	MCLG	Detected Level	Range	Major Sources	Violation
<b>Lead</b>	2011	PPB	AL=15	0	<b>0.00</b>	0 of 30 sites sampled exceeded the action level.	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives	<b>NO</b>
<b>Copper</b>	2011	PPM	AL = 1.3	0	<b>0.033</b>	0 of 30 sites sampled exceeded the action level.		<b>NO</b>
<b>Fluoride</b>	2013	PPM	4	4	<b>0.40</b>	0.40 - 0.40	Water additive that promotes healthy teeth.	<b>NO</b>
<b>Cadmium</b>	2013	PPB	5	5	<b>0.27</b>	0.27 - 0.27	Erosion of natural deposits.	<b>NO</b>
<b>Barium</b>	2013	PPM	2	2	<b>0.06</b>	0.06 - 0.06	Erosion of natural deposits.	<b>NO</b>
<b>Nitrate</b> (Measured as Nitrogen)	2013	PPM	10	10	<b>0.31</b>	0.31 - 0.31	Runoff from fertilizer	<b>NO</b>

Disinfection and Disinfection Byproducts

\* Not all sample results may have been used for calculating the Highest Level detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future.

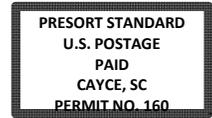
	Year Sampled	Unit	MCL	MCLG	Detected Level	Range	Major Sources	Violation
<b>TTHM's (Trihalomethanes)</b>	2013	PPB	80	No goal set	<b>33.21</b>	24.39 - 56.43	By-product of drinking water chlorination.	<b>NO</b>
<b>Haloacetic Acids (HAA5)</b>	2013	PPB	60	No goal set	<b>10.30</b>	5.49 - 14.39		<b>NO</b>
<b>Chlorine</b>	2013	PPM	MRDL=4	MRDLG=4	<b>1.12</b>	1.12 - 1.12	Chlorination of potable water.	<b>NO</b>

Radioactive Contaminants

<b>Gross Alpha</b>	06/10/2012	pCi/L	15	0	<b>2.53</b>	2.53 - 2.53	Erosion of natural deposits,	<b>NO</b>
<b>Gross Beta</b>	06/10/2012	pCi/L	4	0	<b>2.43</b>	2.43 - 2.43	nuclear power plant activity,	<b>NO</b>
<b>Radium 226</b>	07/03/2012	pCi/L	5	0	<b>0.15</b>	0.10 - 0.10	sunlight, and medical scans,	<b>NO</b>
<b>Radium 228</b>	06/01/2012	pCi/L	5	0	<b>0.54</b>	0.54 - 0.54	such as X-ray and CT scans.	<b>NO</b>

Organic Contaminants

<b>Total Coliform</b>	2013	N/A	Two Samples per period	0	<b>0.00</b>	0	Agriculture runoff; sewage discharges/overflows.	<b>NO</b>
<b>Total Organic Carbon</b>	2013	* The % of Total Organic Carbon (TOC) removal was measured each month and the system met ALL TOC removal requirements set, unless a violation is noted in the violations section.						
	Year Sampled	Limit (Treatment Technique)	Level Detected	Range	Major Sources	Violation		
<b>Turbidity</b>								
Highest Single Measurement	2013	1 NTU	<b>0.21 NTU</b>	100% Met	Soil Runoff.	<b>NO</b>		
Lowest Monthly % Meeting Limit	2013	0.3 NTU	<b>100% Met</b>	100% Met	Soil Runoff.	<b>NO</b>		



**Unregulated Contaminants**

**IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER**

**Availability of Monitoring Data for Unregulated Contaminants for System # 3210003 (UCMR 3)**

Our water system has sampled for a series of unregulated contaminants. Unregulated contaminants are those that don't yet have a drinking water standard set by the EPA. The purpose of monitoring for these contaminants is to help EPA decide whether the contaminants should have a standard. The contaminants listed below exceeded the MRL limit set by the EPA. For the complete list of contaminants detected please contact Vince Osborne at 803-739-5375 or [vosborne@cityofcayce-sc.gov](mailto:vosborne@cityofcayce-sc.gov). Please note all levels are in **parts per billion**.

Sample ID	Date Sampled	Contaminant	EPA Test Method	MRL	Units (PPB)	Detected Level
Cayce WTP	07/30/2013	Hexavalent Chromium(Dissolved)	EPA 218.7	0.03	PPB	0.11
Cayce WTP	07/30/2013	1,4-Dioxane	EPA 522	0.07	PPB	0.153
Cayce WTP	07/30/2013	Strontium	UCMR 200.8	0.3	PPB	46
Cayce WTP	07/30/2013	Vanadium	UCMR 200.8	0.2	PPB	0.37
Cayce Distribution	07/30/2013	Hexavalent Chromium(Dissolved)	EPA 218.7	0.03	PPB	0.12
Cayce Distribution	07/30/2013	Strontium	UCMR 200.8	0.3	PPB	47
Cayce Distribution	07/30/2013	Vanadium	UCMR 200.8	0.2	PPB	0.37
Cayce WTP	10/29/2013	Hexavalent Chromium(Dissolved)	EPA 218.7	0.03	PPB	0.073
Cayce WTP	10/29/2013	1,4-Dioxane	EPA 522	0.07	PPB	0.143
Cayce WTP	10/29/2013	Strontium	UCMR 200.8	0.3	PPB	45
Cayce Distribution	10/29/2013	Hexavalent Chromium(Dissolved)	EPA 218.7	0.03	PPB	0.074
Cayce Distribution	10/29/2013	Strontium	UCMR 200.8	0.3	PPB	44

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**Explanation of Violations.**

No violations.

**Required Additional Health Information**

To ensure that tap water is safe to drink, EPA prescribes limits on the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

Drinking water, including bottled water, may be reasonably 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 Environmental Protection Agency's Safe Drinking Water Hotline @ **1-800-426-4791**.

Some people may be more vulnerable to contaminants in drinking water than is the general population. Immuno-compromised persons, those with cancer undergoing chemotherapy, persons who have undergone organ transplants, and people with HIV/AIDS or other immune system disorders. Also some elderly, and infants can be 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 Hot Line @ **1-800-426-4791**.

The sources of drinking water (both tap and bottled) 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 radioactive material, and can pick up substances resulting from the presence of animals or human activity. Contaminants that may be present in source water include:

- (A) Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- (B) Inorganic contaminants, such as salts and metals, can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming.
- (C) Pesticides and herbicides, which may come from a variety of sources such as agriculture, storm water runoff, and residential uses.
- (D) Organic chemical contaminants, including synthetic and volatile organics, which are by-products of industrial processes and petroleum production can also come from gas stations, urban storm water runoff and septic systems.
- (E) Radioactive contaminants, which 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, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

**Concerning Lead In Our Water**

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. The City of Cayce 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 thirty seconds to two minutes before using water for drinking or cooking. If you are concerned about lead in your drinking 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 at 1-800-426-4791 or at <http://www.epa.gov/safewater/lead>.

**Additional Information Concerning Lead**

Lead in drinking water is rarely the sole cause of lead poisoning, but can add to a person's lead exposure. All potential sources of lead in the household should be identified and removed, replaced, or reduced. Lead and copper testing is required every three years by EPA regulations and the City of Cayce performed these tests mid-year 2011. The next lead test cycle will be mid-year 2014.