Water Quality Report for Sandy City

2019

Important Facts About Your Drinking Water

All sources of drinking water are subject to potential contamination by constituents that are naturally occurring or man-made. Those constituents can be microbes, organic or inorganic chemicals or radioactive materials. 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 at (800) 426-4791.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as person 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 guideline on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at (800) 426-4791.



Sandy City has two main water sources that supply our drinking water: Surface Water from Metropolitan Water District of Salt Lake and Sandy, which is taken from Little Cottonwood Creek and Deer Creek Reservoir; and currently 16 Wells that pump groundwater from underground aquifers. The Wells generally only operate in the summer months. For more information on groundwater please contact Mike Campbell – Distribution Supervisor at (801) 352-4400.

Only samples collected for the purpose of compliance are reported in the 2019 Consumer Confidence Report. The EPA requires monitoring of over 80 drinking water contaminants. The contaminants listed in the table below are the only contaminants detected in your drinking water.

Drinking Water Quality Compliance Sampling

Sandy City Wells MWDSLS Plant Contaminants MCLG MCL Units Ground Water Year Surface Water Year Most Likely Source PRIMARY INORGANIC		<u> </u>		-			-		
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Drinking Water Quality Compliance Sampling								
				Sandy City		MWDSLS Plant		
2019				Wells		Finished Water		
Contaminants	MCLG	MCL	Units	Ground Water	Year	Surface Water	Year	Most Likely Source
RADIOACTIVE CONTAMI	NANTS							
GROSS-ALPHA	NE	15	pCi/L	8.8	2019	-0.7	2017	Erosion of natural deposits
GROSS-BETA	NE	50	pCi/L	7.9	2019			Decay of natural and man-made deposits
RADIUM 226	NE	5	pCi/L	0.20	2019			Decay of natural and man-made deposits
RADIIUM 228	NE	5	pCi/L	0.30	2019	0.55	2017	Decay of natural and man-made deposits
PESTICIDES & HERBICIDE	S							
	Various	Various		ND	2019	ND	2019	Various Sources
VOLATILE ORGANIC CHE	и.				•			
								By-product of drinking water
Bromodichloromethane	NE	NE	mg/L	ND	2019	ND	2019	disinfection
Chlorodidibromomethane	NE	NE	mg/L	ND	2019	ND	2019	disinfection
TETRACHLOROETHYLENE	0	0.005	mg/L	ND	2019	ND	2019	Improper disposal of dry cleaning and other solvents
Chloroform	NE	NE	mg/L	ND	2019	ND	2019	By-product of drinking water disinfection
SECONDARY INORGANIC								
CHLORIDE	NE	250	mg/L	43	2019	59.4	2019	Erosion of naturally occurring deposits.
Total Hardness, mg/L as CaCO3	NE	NE	mg/L	181	2019	180 - 186	2019	
рН	NE	6.5 - 8.5	units	8.0	2019	7.04 - 8.24	2019	Naturally Occurring
ORGANIC MATERIAL								
тос	UR	NE	mg/L			< 0.50 - 2.42	2019	Naturally Occurring
DOC	UR	NE	mg/L			< 0.50 - 2.34	2019	Naturally Occurring
UV-254	UR	NE	cm-1			0.014 - 0.034	2019	Naturally Occurring
DISINFECTION-BY-PRODUCT- Surface and Well Water				Annual Ave	rage			
TTHM'S (Total								By-product of drinking water
Trihomethanes) ppb	NE	80	ug/L	30.89	2019	10.2 - 44.1	2019	disinfection By-product of drinking water
(HAA5)	NE	60	ug/L	30.71	2019	9.1 - 50.8	2019	disinfection
Total Haloacetic Acids	NE	<u> </u>		22.00	2010	10.6 53.6	2010	By-product of drinking water
(HAA6) NE 60 ug/L			33.90 2019		10.6 - 53.6 2019		disinfection	
Lead and Copper - Surface and Well Water				90th Percer	itile			Corrosion of household nlumbing
Lead	NE	*AL = 0.015	mg/L	0.00371	2019	N/A	2019	system
Copper	NE	*AL = 1.3	mg/L	0.320	2019	N/A	2019	Corrosion of household plumbing system

Inadequately treated water (surface water) may contain disease-causing organisms. These organisms include bacteria, viruses, and parasites which can causes symptoms such as nausea, cramps, diarrhea, and associated headaches.

LEAD – 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. Sandy City 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 30 seconds to 2 minutes before using for drinking or cooking. If

you are concerned about lead in your 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 or at https://www.epa.gov/safewater/lead.

Visit <u>Sandy.utah.gov/stormwater</u> for more information and ways that you can help protect our waters. WE ALL LIVE DOWNSTREAM!

DEFINITIONS FOR ABBREVIATIONS:

AL – Action Level – The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

MCL – Maximum Contaminant Level – The highest level of contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

MCLG – Maximum Contaminant Level Goal – The level of a contaminant in drinking water below which there is not known or expected risk to health. MCLG's allow for a margin of safety.

mg/L - Milligrams per liter or parts per million (ppm) – one part per million corresponds to one minute in two (2) years, or a single penny in \$10,000.

NE – Not established.

ND – Non-detects- Laboratory analysis indicates that the constituent is not present.

NTU – Nephelometric Turbidity Unit – Nephelometric Turbidity Unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

ppb – Parts per billion

ppt – Parts per trillion or nanograms per liter (nanograms/l) – one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

pCi/L – picocuries per liter – picocuries per liter is a measure of the radioactivity in water.

Range – Range of measurements based on testing of Sandy City sources. (a) The MCL for beta particles is 4 mrem (millirems) per year. EPA considers 50 pCi/L to be the level of concern for beta particles.

TT – Treatment Technique – A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

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

UR – Unregulated.

February 2019 Fluoride Overfeed Event

As required by Salt Lake County, Sandy City adds fluoride to the drinking water to improve dental health, and the level of fluoride added to the water is set by the County based on recommendations by the US Department of Health and Human Services. The City has been adding fluoride to its drinking water wells since 2003. On February 5, 2019 there was an accidental overfeed of fluoride at one of the City's wells. The event lasted approximately 38 hours, and we estimate that up to 270 homes may have received drinking water with excess fluoride from this well. After discovery of the problem on February 7th, City staff shut off the fluoride feed pump, began flushing the water system to remove the high fluoride water from the pipes, and worked with residents in the impacted area to flush their home plumbing.

The immediate action of flushing the system was aimed at addressing the adverse health effect of elevated levels of fluoride in tap water. However, the fluoride chemical is acidic and at high concentrations can also cause damage to home plumbing material that could result in the release of lead, copper, and other metals into the tap water. For this reason, the City collected thousands of samples from impacted homes and analyzed them for lead, copper, and a variety of constituents. The table below presents the average and range of the levels of fluoride and all other constituents analyzed in the water samples collected in 2019 beginning on February 7th in response to the overfeed event. All values are in mg/L (equal to part-per-million or ppm). Also listed in the table are the drinking water (DW) limits for each constituent.

2019 Fluoride Event Water Quality Sampling							
Constituent	Average	Range	DW Limit	DW Limit based on:			
Fluoride	3.36	0.59 - 152	4.0	Health concern			
Calcium	37	1.3 – 56		None			
Magnesium	11	0.8 - 16		None			
Phosphorus	0.872	0 – 5.45		None			
Potassium	2.87	0 – 5.56		None			
Silica	12	3.4 – 99		None			
Sodium	37.4	21 – 127		None			
Metals							
Aluminum	0.372	0 – 2.67	0.2	Aesthetic concern			
Antimony	0.002	0-0.048	0.006	Health concern			
Arsenic	0.003	0-0.034	0.01	Health concern			
Barium	0.053	0-0.112	2.0	Health concern			
Beryllium	0	0-0	0.004	Health concern			
Boron	0.0037	0 – 0.052		None			
Cadmium	0.0001	0-0.0008	0.005	Health concern			
Chromium	0.0013	0-0.017	0.1	Health concern			
Cobalt	0.0008	0 – 0.005		None			
Copper	0.169	0 – 24.8	1.3	Health concern			
Iron	0.334	0 – 3.85	0.3	Aesthetic concern			
Lead	0.002	0 – 0.663	0.015	Health concern			
Lithium	0.015	0-0.023		None			
Manganese	0.037	0-0.469	0.3	Health Advisory			
Mercury	0.00	0-0.00	0.002	Health concern			
Molybdenum	0.0018	0.0015 - 0.002		None			

Constituent	Average	Range	DW Limit	DW Limit based on:
Nickel	0.0055	0-0.032		None
Selenium	0.0004	0-0.001	0.05	Health concern
Silver	0.0001	0-0.001	0.10	Aesthetic concern
Strontium	0.242	0.006 - 0.362		None
Thallium	0.00	0.00 - 0.00	0.002	Health concern
Tin	0.0105	0 – 0.258		None
Titanium	0.0034	0 – 0.025		None
Uranium	0.0029	0.0010 - 0.012	0.03	Health concern
Vanadium	0.0004	0 - 0.0070		None
Zinc	0.0121	0-0.174	5.0	Aesthetic concern

Note: All concentrations are in mg/L, or parts-per-million (ppm)

As shown in the above table, some constituents exceeded their health based DW limits during the incident. The following is specific information on the health effects of those constituents:

Fluoride – Health effects from short term exposure to high fluoride levels can include abdominal pain, nausea, and vomiting.

Lead and Copper – Health effects from acute lead exposure can include dullness, restlessness, irritability, poor attention span, headaches, muscle tremor, abdominal cramps, kidney damage, and hallucinations. Health effects from acute exposure to copper can include gastrointestinal bleeding, headache, nausea, and vomiting.

Arsenic – Health effects from short term arsenic exposure include vomiting, abdominal pain, diarrhea, and possible numbness of the extremities.

Antimony – Health effects from short term exposures to antimony in drinking water can include vomiting and abdominal pain.

Manganese – The EPA has a 10-day Health Advisory value of 0.3 mg/L for infants younger than 6 months. Near-term actions to address public health concerns, particularly for formula-fed infants may be warranted if the manganese level exceeds the Health Advisory value.

In addition to the close monitoring of the tap water quality at the impacted homes after the incident, the City has initiated a large scale water quality monitoring program at all 270 homes impacted by this event, and the results continue to show that all constituents of concern have decreased to well below their drinking water limits. Residents with any questions about the fluoride overfeed incident are encouraged to contact the City's water department at 801-568-6074.