



WEBER BASIN WATER CONSERVANCY DISTRICT

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Consumer Confidence Report 2022

Weber Basin Water Conservancy District (District) is pleased to present you with the 2022 Annual Consumer Confidence Report. The U.S. Environmental Protection Agency and Utah Division of Drinking Water require all water agencies to annually report the quality of their drinking water. The District is Northern Utah's Regional Water Supplier for wholesale irrigation and treated municipal water, retail secondary irrigation water, untreated industrial water, and groundwater replacement. We proudly serve the water needs of Davis, Weber, Summit, Morgan, and Box Elder counties. This report will provide helpful tools to reduce our water use, shed some light on just how valuable water is, and show how much effort is involved in delivering this precious resource.

QUALITY

The District has been serving award winning drinking water since the 1960s. We are committed to providing drinking water that meets or exceeds federal and state drinking water standards 100% of the time. As a wholesaler, achieving this goal requires a close partnership with the U.S. Environmental Protection Agency (EPA), Utah Division of Drinking Water (DDW), and the Public Water Systems (PWSs) we serve. This report contains reliable and accurate information about our drinking water. If you do not see a particular drinking water contaminant listed in this report, please be assured, the District exceeds required monitoring frequency but does not report results of contaminants not detected in our water.



CONSERVATION

The District closely monitors all the water it treats and is confident about the high quality of water delivered to your homes and businesses. We all must rethink how we use water and challenge ourselves to preserve this resource for years to come. Rethinking outdoor water use is by far the area with the most potential for savings. The State is asking the water users within the District to reduce per capita water use another 20% from now until 2030 (the users within the District have already reduced per capita water use from the year 2000 to the present by 20%) through education and conservation programs.

Achieving this goal will be extremely difficult and will take a significant effort from all water users within the District. This water conservation effort will be a major focus of the District moving forward by educating water users on proper irrigation practices and changing both attitudes and behaviors toward wiser water use. We are grateful to those who are already making efforts to improve efficiency and conserve this valuable resource.



OUR WATER SUPPLY

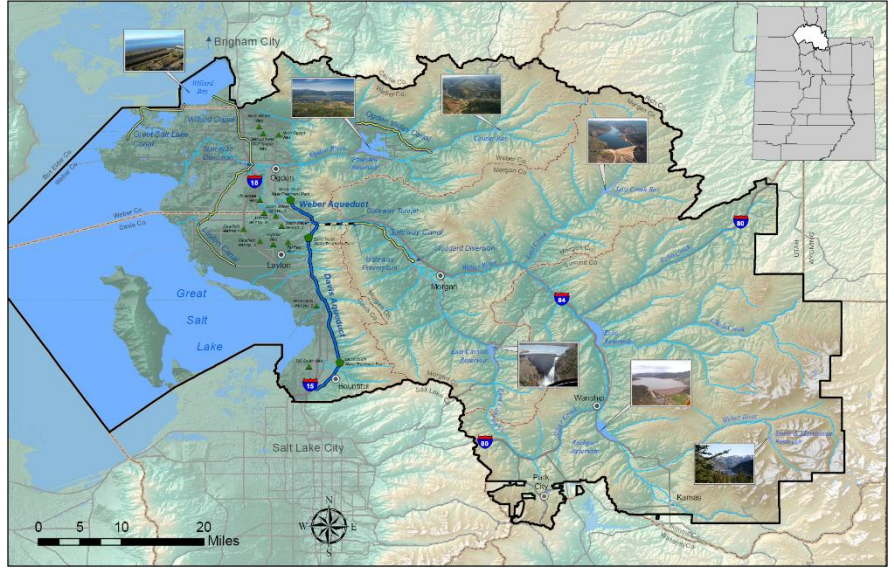
Surface and Groundwater

The District's drinking water supply comes from the Weber River and several tributaries along the Wasatch Front. Groundwater primarily from the Delta Aquifer is used to supplement surface water sources for drinking and irrigation.

How Drinking Water Gets to You

Although a portion of drinking water originates as groundwater from deep wells, most of the drinking water supply begins as surface water from the headwaters of the Weber River. Water is directed into a large canal by a diversion dam, then flows through the canal until it enters two large aqueducts along the Wasatch bench.

Several creeks along the Wasatch Front can feed into this aqueduct system. From there, water is transported to each of the District's water treatment plants (WTPs). After complete treatment, water is delivered to cities or water improvement districts for final distribution to individual users.



LARGE SCALE WATER STORAGE

Storage reservoirs along the Weber and Ogden rivers play a critical role in ensuring adequate and constant water supply to all water users throughout the year. Dams have been built to take advantage of winter snow by storing water during annual spring runoff. Without this storage, those of us living downstream from rivers and lakes would experience extreme high flows during the spring runoff periods and extreme low flows in the late summer months.

Reservoirs have allowed growth to continue within the District's service area, which otherwise could not have occurred due to the lack of consistent water supply. Storage reservoirs also have other useful functions, like generating hydro-electric power, providing economic benefits through tourism, sustaining habitats for wildlife, and supporting many forms of recreational activities. These reservoirs have allowed many communities to thrive and prosper while continuing to ensure adequate water for agricultural, industrial, commercial, and residential uses.



SOURCE WATER PROTECTION

Watershed Protection

The District understands the importance and value in protecting our natural resources. Therefore, we have developed several management strategies to improve water quality and decrease the severity and impact of potential contamination sources within our watershed. These efforts are made through watershed inspections, emergency action plans, public outreach and education, and close partnerships with watershed stakeholders to foster participation in water quality improvement measures. The District has developed a Water Source Protection Plan for all surface drinking water sources. This Plan identifies potential contamination threats

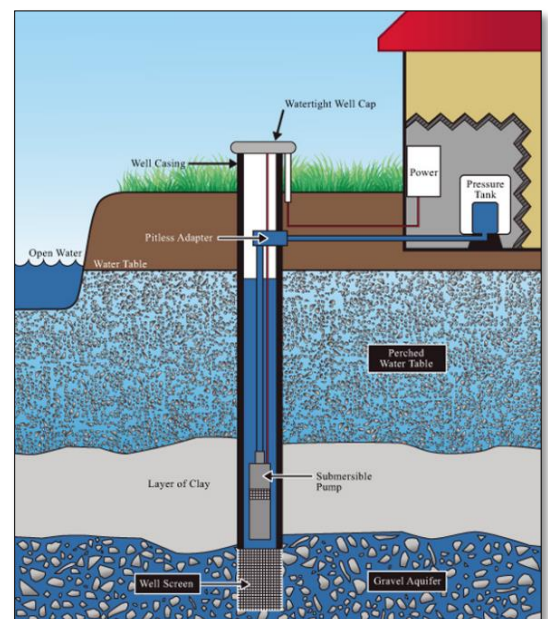


to our drinking water sources and provides management strategies to help control existing and future potential sources of contamination. Copies of this plan may be purchased from the District main office (for the cost of printing) or obtained through the Utah DDW. The District is proud to share our Source Protection Plan to promote understanding of the potential risks to our source waters.

Watersheds sustain life in many ways. Successful watershed management requires suitable land use practices and water quality preservation. By implementing best practices to monitor, protect, and improve the quality of water and natural resources within a watershed, we can sustain its future. The District is an active member in several water quality partnerships and participates in numerous river and tributary restoration projects.

Wellhead Protection

A Wellhead Protection Plan has been developed for all District groundwater sources. These plans define the protection zones for each well, list the potential contamination sources within the zones, and identify what safeguards are in place to protect the aquifer (natural underground water storage formations made of silts, sands, gravels, and cobbles) from the contamination sources. The wellhead protection plans also consist of steps to monitor contamination sources and educate businesses or industries that may become sources. Copies of this plan may be purchased from the District main office or obtained through the Utah DDW.



You Can Help Prevent Water Pollution

The water you drink comes from rivers, streams, aquifers, reservoirs, and wells. Residents can help prevent water pollution by employing best management practices when storing, using, and discarding fertilizers, pesticides, and other household hazardous wastes. The following best management practices should be used especially when storing and applying fertilizers and pesticides to reduce the risk of surface and groundwater contamination:

BEST MANAGEMENT PRACTICES FOR HOUSEHOLD CHEMICALS	
Never apply fertilizers near wells	Keep fertilizers and pesticides on separate shelves
Do not allow fertilizer and pesticide spills to be washed off into the storm drain system	Pesticides and fertilizers should always be applied in accordance with manufacturer's directions
Dry pesticide and fertilizer spills should be swept up and later applied at the rate specified on an area where needed	Liquid pesticide and fertilizer spills should be soaked up using absorbent material (such as soil, saw dust, and cat litter) and then taken to a household hazardous waste collection site
Only purchase the amount and kind of fertilizer or pesticide needed and store in locked, dry cabinets	Do not spray or apply pesticides near walks or driveways to prevent pesticides from washing off into the storm drain system

Household hazardous wastes (HHWs) are discarded materials that are ignitable, corrosive, reactive, toxic, or otherwise listed as hazardous by the EPA. Paint, motor oil, gasoline, antifreeze, or lawn and garden chemicals that you dispose of in the gutter or your backyard can migrate to the rivers or filter down through the ground and pollute aquifers. The following best management practices should be employed when handling HHWs:

BEST MANAGEMENT PRACTICES FOR HOUSEHOLD HAZARDOUS WASTE	
Completely use the product before disposing of the container	Dispose of used or unused household hazardous waste to local collection programs
Do not flush, pour down sink, storm drains, or on the ground	Do not bury in the ground or store in leaking containers

Please do not spoil the water supply for yourself and everyone else! Dispose of paint, used motor oil, and other hazardous chemicals in the proper and safe manner. For more information on the nearest location for hazardous waste disposal and free disposal community events, please contact:

- Utah Division of Solid & Hazardous Waste - (801) 536-0200
- Utah Division of Drinking Water, Source Protection Program - (801) 536-4200
- Utah Department of Environmental Quality Hotline - 1-800-458-0145

If you would like additional information on HHWs and ways to minimize the impact of potential contamination sources on our water resources, please visit the Utah Division of Drinking Water website at: <https://deq.utah.gov/public-interest/household-hazardous-waste-2>.



POSSIBLE CONTAMINANTS IN THE WATER

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 Environmental Protection Agency's Safe Drinking Water Hotline (1-800-426-4791).

Our drinking water sources include rivers, streams, aquifers, reservoirs, and wells. As water travels over the surface of the land or through the ground it dissolves naturally occurring minerals, small amounts of radioactive material, and substances resulting from the presence of animal or human activity. Below are some of these contaminants that may be present in source water:

Microbial contaminants - such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

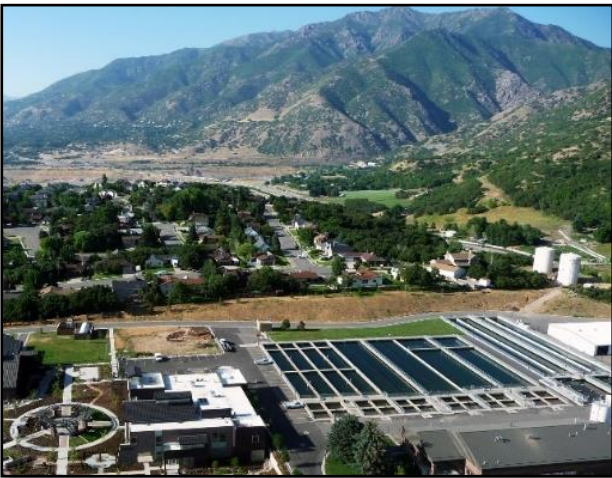
Inorganic contaminants - such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial, or domestic wastewater discharges, oil and gas production, mining, or farming.

Organic chemical contaminants - include synthetic and volatile organic chemicals that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Pesticides and herbicides - may come from a variety of sources such as agriculture, urban storm water runoff, and residential use.

Radioactive contaminants - can be naturally occurring, or the result of oil and gas production and mining activities.

CONTAMINANT REMOVAL FROM OUR WATER

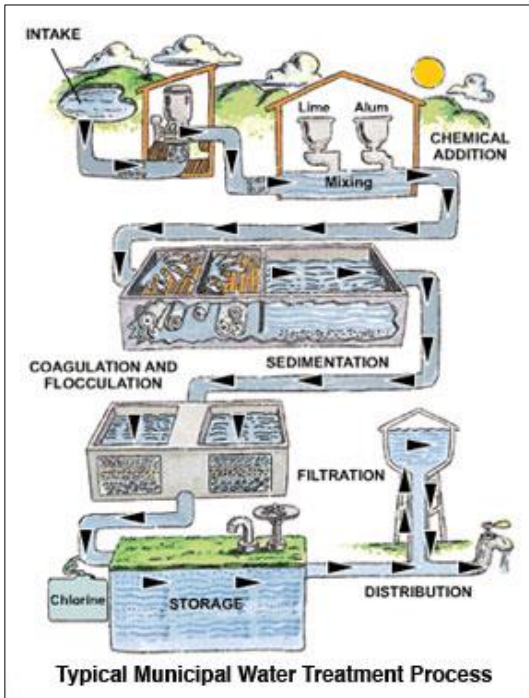


To ensure that tap water is safe to drink the EPA prescribes regulations which limit the permissible levels of certain contaminants in water provided by PWSs. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water.

Water treatment is a complicated process that involves continuous oversight and monitoring. The District owns and operates 4 water treatment plants and 15 deep ground water wells that remove or reduce these contaminants to levels that meet and routinely surpass all Federal and State requirements.

All the District's water treatment plants use state-of-the-art technology and water treatment methods to produce clean and safe drinking water. The District's three largest water treatment plants use conventional treatment methods and the fourth, smaller plant, uses microfiltration technology for surface water treatment. Ground water sources are less prone to contamination; therefore, only disinfection is necessary for water treatment at wells.

OUR WATER TREATMENT PROCESS



Our three primary water treatment plants conduct a combination of time-tested conventional water treatment processes and innovative disinfection strategies to produce high-quality drinking water. Conventional water treatment consists of coagulation, flocculation, sedimentation, and sand/multi-media filtration. This proven method of treatment is used throughout the modern world. Our advanced disinfection technologies have been implemented to reduce disinfection byproducts and produce better tasting water, while maintaining a cost-effective approach.

Coagulation and flocculation combine to make the first stage in water treatment. The goal of this stage is to bind up the suspended particles included in raw water by adding a coagulant as the water first enters the treatment plant. Floc, which is a tuft-like aggregate, is produced from the mixing of the coagulant in the raw water. This process is called flocculation. Over time, as more suspended matter is bound, the smaller aggregates of floc become larger particles of floc.

Sedimentation is the second stage of water treatment. The objective of this stage is to remove the floc. This is accomplished as the floc settles out of the water in long sedimentation basins. The cleaner water is drained off the surface of the sedimentation basin and sent to filtration.

Filtration is the third stage of water treatment. The purpose of this stage is to remove the remaining suspended particles and constituents. This is accomplished by passing the water through a filter composed of different layers of anthracite coal and sand.

Disinfection is the final stage of water treatment. The drinking water is further treated by adding a small amount of chlorine or other disinfecting technologies such as ozone and ultraviolet (UV) light to remove organic compounds and inactivate viruses, bacteria, and other pathogenic organisms.

Microfiltration is a physical filtration process where surface water is passed through the pores of a membrane to separate out microorganisms and suspended particles. The use of microfiltration membranes presents a physical means of separation, a barrier, as opposed to a chemical coagulant. Disinfection is applied as the final stage of the process.

Our water treatment plants have won numerous awards for “Best Tasting Water” and for our commitment to outstanding water quality.



SPECIAL WATER QUALITY PRECAUTIONS TO CONSIDER

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as those undergoing chemotherapy for cancer treatment, persons who have undergone organ transplant, people with 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/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infections by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

WATER QUALITY INSIDE YOUR HOME

The District delivers water that is cleaner than required by state and federal law. However, once the water passes from our system and through your meter, you become a partner with us in making sure it stays that way. Below are some things to consider for maintaining the quality of water in your home.

Water Heaters

Check the temperature setting for your water heater. Water that is too hot can create a burn hazard, while water that is lukewarm can create a perfect environment for bacteria to grow. You may want to consider installing a pressure regulator to prevent any sudden surges to your water heater.

Filters and Purifiers

All types of filters and purifiers (point of use devices) need to be properly maintained and monitored. Neglected devices may not work as intended, can become a haven for microbial growth, or shed filter material into your home's tap water. Even the filter in your refrigerator needs to be properly maintained to protect your family.

Backflow Prevention Devices

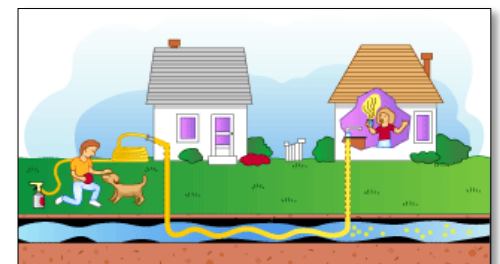
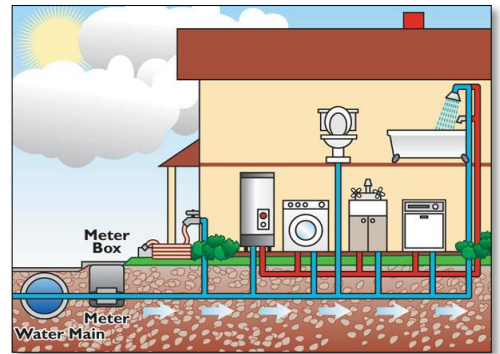
Once the water passes from the distribution system into your home it is more susceptible to backflow contamination. Hoses, sprinkler systems, shop sinks and other water devices can contaminate the water flowing within your home and pose a health risk to your family. Consider installing backflow prevention devices on any potential hazard.

Water Softeners

Since the hardness of your water can range anywhere from 10 to 18 grains per gallon (or 171 to 308 parts per million), it is important to monitor the settings on your water softener regularly to make sure that you are treating your water properly. Over treating your water is wasted money, while under treating is not effective.

Unused Rooms

If you have a kitchen or bathroom that rarely gets used, you should make a point of running water through the faucets on a frequent basis. Stagnant pipes and fixtures are susceptible to microbial growth. Flushing unused water lines regularly will help prevent this.



WATER QUALITY DATA AND INFORMATION

The drinking water treated and provided by Weber Basin Water Conservancy District meets and exceeds all state and federal regulations for water quality.

Information on the following page lists all regulated and unregulated drinking water contaminants that we have detected during this year and the recent past. We test for over 130 contaminants with almost all being non-detectable. Unregulated contaminant monitoring helps the EPA determine where certain contaminants occur and whether these contaminants need to be regulated. Some of our data, though representative, are less recent because the contaminant levels are stable and require less frequent monitoring. It is important to know that the presence of contaminants in the water does not necessarily indicate that the water poses a health risk. The detected contaminants tables have been divided into three groups representing the District’s three culinary distribution systems. These systems are:

- ◆ Weber Basin NORTH (covers the area north of Ogden City; Water System # UTAH29109)
- ◆ Weber Basin CENTRAL (the area from Ogden City south to Farmington; Water System # UTAH29023)
- ◆ Weber Basin SOUTH (the area from Centerville to North Salt Lake; Water System # UTAH06013)

DRINKING WATER TESTING RELATED DEFINITIONS

Detected Contaminant - Any contaminant detected at or above its method detection limit (MDL)

MDL - Method Detection Limit (The lowest level at which a contaminant is detected with a specified degree of certainty by an analytical method used to analyze samples)

MCL - Maximum Contaminant Level (The highest level of a contaminant that is allowed in drinking water)

MCLG - Maximum Contaminant Level Goal (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)

LRAA – Locational Running Annual Average

NA - Not Applicable (there is no Federal or State MCL and/or MCLG)

ND - Not Detected

NTU - Nephelometric Turbidity Unit (a measure of the cloudiness of the water)

ppm - parts per million; equivalent to milligrams per liter (mg/L)

ppb - parts per billion; equivalent to micrograms per liter (µg/L)

pCi/L - picocuries per liter (a measure of radioactivity)

REGULATED MICROBIOLOGICAL CONTAMINANTS

Weber Basin CENTRAL - These data are derived from continuous measuring data collected in 2022.

Contaminants	Percent of Time Meeting below the MCL Monthly	Highest Single Measurement	MCL	MCLG	Violation	Typical Source
Turbidity – Weber South WTP	100%	0.14 NTU	0.3 NTU	0 NTU	No	Soil runoff
Turbidity – Davis North WTP	100%	0.08 NTU	0.3 NTU	0 NTU	No	Soil runoff

Weber Basin SOUTH - These data are derived from continuous measuring data collected in 2022.

Contaminants	Percent of Time Meeting below the MCL Monthly	Highest Single Measurement	MCL	MCLG	Violation	Typical Source
Turbidity – Davis South WTP	100%	0.12 NTU	0.3 NTU	0 NTU	No	Soil runoff

Note: Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system.

MICROBIOLOGICAL PARAMETERS

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that potentially harmful bacteria may be present. Utah DDW regulations require the District to test a minimum of 140 samples per month for total coliform and E. coli. If more than 5% of monthly samples collected are positive for total coliform, a violation of the MCL has occurred. In 2022, the District did not exceed the monthly MCL for total coliform bacteria; in fact, this has never occurred in our water since this rule was established.

REGULATED INORGANIC CONTAMINANTS

Weber Basin NORTH - These data are derived from sample collected between 2010 and 2019.

Contaminants (units)	Average	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Arsenic (ppb)	0.800	0.600	1.20	10	0	No	Erosion of natural deposits; runoff from orchards
Barium (ppm)	0.117	0.0330	0.267	2	2	No	Erosion of natural deposits; discharge of drilling wastes
Fluoride ^{3,5} (ppm)	0.100	ND	0.200	4	4	No	Erosion of natural deposits
Nitrate as N (ppm)	1.40	0.988	1.81	10	10	No	Runoff from fertilizer use; erosion of natural deposits
Selenium (ppb)	1.10	ND	2.10	50	50	No	Erosion of natural deposits; discharge from mines
Sodium (ppm)	16.5	13.4	19.6	NA ¹	NA	NA	Erosion of natural deposits
Sulfate (ppm)	11.9	5.00	25.0	1,000 ²	NA	No	Erosion of natural deposits
Total Dissolved Solids (ppm)	214	136	315	2,000 ²	NA	No	Erosion of natural deposits

Weber Basin CENTRAL - These data are derived from samples collected between 2017 and 2022.

Contaminants (units)	Average	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Antimony (ppb)	0.440	ND	0.800	6	6	No	Discharge from petroleum refineries; fire retardants
Arsenic (ppb)	0.260	ND	1.30	10	0	No	Erosion of natural deposits; runoff from orchards
Barium (ppm)	0.109	0.0770	0.179	2	2	No	Erosion of natural deposits; discharge of drilling wastes
Fluoride ^{4,5} (ppm)	0.647	0.0180	11.2	4	4	Yes	Erosion of natural deposits; fluoridation in Davis Co
Nitrate as N (ppm)	0.585	ND	1.80	10	10	No	Runoff from fertilizer use; erosion of natural deposits
Selenium (ppb)	0.400	ND	0.700	50	50	No	Erosion of natural deposits; discharge from mines
Sodium (ppm)	38.9	22.5	47.6	NA ¹	NA	NA	Erosion of natural deposits
Sulfate (ppm)	32.4	7.00	43.7	1,000 ²	NA	No	Erosion of natural deposits
Total Dissolved Solids (ppm)	385	352	444	2,000 ²	NA	No	Erosion of natural deposits

Weber Basin SOUTH - These data are derived from samples collected between 2017 and 2019 (Fluoride and Nitrate data up to 2022).

Contaminants (units)	Average	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Barium (ppm)	0.104	0.0660	0.145	2	2	No	Erosion of natural deposits; discharge of drilling wastes
Cyanide (ppb)	1.33	ND	4.00	200	200	No	Discharge from steel, metal, plastic, and fertilizer factories
Fluoride ⁴ (ppm)	0.689	0.051	1.88	4	4	No	Erosion of natural deposits; fluoridation in Davis Co
Nitrate as N (ppm)	0.861	0.0400	3.32	10	10	No	Runoff from fertilizer use; erosion of natural deposits
Selenium (ppb)	1.23	1.10	1.30	50	50	No	Erosion of natural deposits; discharge from mines
Sodium (ppm)	61.6	35.6	92.1	NA ¹	NA	NA	Erosion of natural deposits
Sulfate (ppm)	37.7	29.0	44.0	1,000 ²	NA	No	Erosion of natural deposits
Total Dissolved Solids (ppm)	738	488	988	2,000 ²	NA	No	Erosion of natural deposits

- 1) The State of Utah Requires monitoring for sodium even though no MCL has been established.
- 2) The MCL for sulfate and total dissolved solids is established by the State of Utah.
- 3) This value represents naturally occurring fluoride concentrations.
- 4) Fluoride levels in Davis County have been adjusted to an optimal level of 0.7 ppm. These results are tabulated from weekly routine fluoride sampling.
- 5) **The District does not add fluoride to water delivered to Weber County.**

REGULATED VOLATILE ORGANIC CONTAMINANTS

Weber Basin CENTRAL – These data are derived from samples collected in 2022.

Contaminants (units)	LRAA	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Total Trihalomethanes (ppb)	12.2	6.10	22.4	80	NA	No	By-product of drinking water chlorination
Total Haloacetic Acids (ppb)	10.6	ND	20.3	60	NA	No	By-product of drinking water chlorination

Weber Basin SOUTH - These data are derived from samples collected in 2022.

Contaminants (units)	LRAA	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Total Trihalomethanes (ppb)	22.8	9.90	44.0	80	NA	No	By-product of drinking water chlorination
Total Haloacetic Acids (ppb)	23.3	5.20	36.8	60	NA	No	By-product of drinking water chlorination

REGULATED RADIOACTIVE CONTAMINANTS

Weber Basin CENTRAL - These data are derived from samples collected between 2016 and 2022.

Contaminant	Average	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Gross Alpha Particles (pCi/L)	0.754	ND	2.60	15	0	No	Erosion of natural deposits
Gross Beta Particles (pCi/L)	2.39	0.050	4.40	50	0	No	Decay of natural & man-made deposits
Radium-228 (pCi/L)	0.635	0.060	1.70	5	0	No	Erosion of natural deposits

Weber Basin SOUTH - These data are derived from samples collected between 2015 and 2018.

Contaminant	Average	Lowest	Highest	MCL	MCLG	Violation	Typical Source
Gross Alpha Particles (pCi/L)	3.58	1.20	5.60	15	0	No	Erosion of natural deposits
Gross Beta Particles (pCi/L)	5.78	3.50	7.00	50	0	No	Decay of natural & man-made deposits
Radium-228 (pCi/L)	0.425	0.340	0.580	5	0	No	Erosion of natural deposits

FLUORIDE INCIDENT REPORT

On January 10, 2022, it was found that an increased level of fluoride had been injected into the District's distribution system in the South Weber area. Upon this discovery, the fluoride injection at this location was immediately halted and appropriate staff was notified. It was determined that a measuring device for the fluoride system failed, resulting in slightly elevated levels of fluoride near the injection site. District staff and South Weber City immediately started working with local and state entities to form a plan of action. Water throughout the distribution systems immediately began to be tested to verify the extent of the fluoride overfeed. South Weber City began flushing their water system to get rid of any high amounts of fluoride. Testing was completed and results showed that there had been slightly elevated amounts of fluoride at certain locations in the distribution system. The highest measured fluoride level in the system was 3 mg/L (ppm). Testing continued and after system flushing, fluoride levels returned back to normal. The equipment issue that caused the overfeed has been addressed and additional checks have been implemented as a result.

On September 14, 2022, it was found that an increased level of fluoride had been injected into the District's distribution system at the Roy Fluoride site which feeds the Sunset and Clinton areas. Upon this discovery, the fluoride injection at this location was immediately halted and appropriate staff was notified. It was determined that during a recent equipment upgrade, an incorrect tag was mapped that caused dosing formulas to receive erroneously high values, therefore injecting too much fluoride. District staff and local cities (Sunset and Clinton in Davis County) immediately started working with local and state entities to form a plan of action. Water throughout the distribution systems immediately began to be tested to verify the extent of the fluoride overfeed. Sunset and Clinton cities began flushing their water systems to get rid of any high amounts of fluoride. Testing was completed and results showed that there had been elevated amounts of fluoride at certain locations in the distribution system. The highest measured fluoride level in the system was over 4 mg/L (ppm), which is the MCL for fluoride, for a short period of time. Testing continued and after system flushing, fluoride levels returned back to normal. The equipment issue that caused the overfeed has been addressed and additional checks have been implemented as a result.

This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 mg/L (ppm) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system, Weber Basin Water Conservancy District, has a fluoride concentration of 0.7 mg/L (ppm).

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/L (ppm) of fluoride (the U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease, including pain and tenderness of the bones. Your drinking water does not contain more than 4 mg/L (ppm) of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/L (ppm) because of this cosmetic dental problem.

For more information, please call Josh Hogge of Weber Basin Water Conservancy District at 801-771-1677. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP.

OTHER POSSIBLE CONTAMINANTS TO CONSIDER

Cryptosporidium

Cryptosporidium and giardia are microbial pathogens found in surface water throughout the U.S. Although filtration removes cryptosporidium and giardia, the most commonly used filtration methods cannot guarantee 100 percent removal. Monitoring conducted by the District indicates the presence of cryptosporidium and giardia in our source water. The District uses UV light in our water treatment which inhibits these organisms from reproducing and causing sickness. Ingestion of cryptosporidium may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immunocompromised people are at greater risk of developing life-threatening illness. Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.

Radon

Radon is a radioactive gas that you cannot see, taste, or smell. At this time, radon monitoring is not required by the EPA; however, the EPA is considering making radon monitoring a requirement. The proposed MCL for radon is 4,000 pCi/L for systems which have a public education program for radon. For additional information, call your state radon program or call EPA's Radon Hotline (1-800-767-7236).

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. The District 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 water 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 www.epa.gov/safewater/lead.

PFAS

Per- and Polyfluoroalkyl substances (PFAS) are a large group of synthetic chemicals that have been used in industry and consumer products worldwide since 1940s. These chemicals are used to make household and commercial products that resist heat and chemical reactions and repel oil, stains, grease, and water. Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonic acid (PFOS) are some of the major PFAS. PFAS are found in humans, wildlife, and fish all over the world. Some PFAS do not break down easily and therefore stay in the environment and human body for a very long time. PFAS may affect human hormones and immunity systems. The EPA and Utah Department of Environmental Quality have been evaluating PFAS in drinking water for many years. For additional information, visit www.epa.gov/pfas or www.deq.utah.gov/pollutants/per-andpolyfluoroalkyl-substances-pfas.

WATER CONSERVATION

With increasing growth and the nature of the regional climate, there is no question that we will encounter future drought in the coming years. Future drought cycles will have an even greater effect than in previous years due to increased population and higher demands by private and commercial water users. Applying principles of conservation and improving our water efficiency must become a way of life for everyone. The District is leading the effort to make Utah a leader in water conservation by improving existing infrastructure, adopting new technology, and hosting educational opportunities for the public.



Conservation alone will not meet future water needs. The District will continue to develop water supplies, build new infrastructure, and maintain the current infrastructure. However, future water projects are costly and usually geographically limited. The more each of us can do to be more efficient with our current water supply will help delay and minimize the cost of future projects. If we each save a little, we all save a lot!

District Conservation Programs and Resources

The District offers services and resources for the public to help improve water efficiency, especially with regards to landscape water use.

Programs include:

- The Water Conservation Learning Garden
- Free Water Checks
- Free Landscape Classes and Garden Events
- Brochures and Educational Information
- Irrigation Product Rebates
- Participant in Slow the Flow and Statewide Governor's Conservation Team
- Secondary Water Metering

For more information, please visit these web sites:

www.weberbasin.com/Conservation/LearningGarden

www.weberbasin.com/Conservation/ClassCalendar

www.weberbasin.com/Conservation/Rebates

www.slowtheflow.org

www.conservewater.utah.gov

www.conservationgardenpark.org

www.utahwatersavers.com



Drought Contingency Planning

The District worked with stakeholders in the area and the Bureau of Reclamation to prepare a Drought Contingency Plan. The goal of this plan is to prepare for future droughts by better understanding past droughts, improving our ability to monitor current droughts, and implementing mitigation and response actions. If you would like additional information about this plan, please contact Ashley Nay at (801) 771-4380 or anay@weberbasin.com.

The Utah State Department of Planning and Budget projects that populations in Davis and Weber County will nearly double over the next 40 years. With a doubling population and limited future water development, the existing water supply will not meet the projected demands. Please take some time and learn why water conservation is important for a long-term stable water supply. There are plenty of resources available and information on how to achieve the landscape style you want while reducing the amount of water applied to maintain it. Thank you for your efforts in helping us continue to provide water for all our needs and varied uses.



Get Involved

The District has regularly-scheduled Board of Trustee meetings. These meetings are typically held at the District headquarters in Layton, Utah. If you would like to attend, please call for information about the meeting schedule and location. The District is open each standard working day and welcomes public input. You may call us at (801) 771-1677, write to us at Weber Basin Water Conservancy District, 2837 East Highway 193, Layton, Utah, 84040; or visit our web site at: www.weberbasin.com



Contact Us

If you have any questions concerning the content of this report, please contact Josh Hogge at (801) 771-1677 or speak to one of our receptionists.

Weber Basin Water web sites:

www.weberbasin.com

www.weberbasin.com/Conservation/about

www.weberbasin.com/NaturalSystems/WaterQualityLab

The state and federal government drinking water web sites:

www.drinkingwater.utah.gov

www.epa.gov/safewater