TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG) or Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the USEPA. PHGs are set by the California EPA.

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 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.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring, reporting and water treatment requirements. **Secondary Drinking Water Standards (SDWS)**: MCLs for contaminants that affect taste, odor or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: Department permission to exceed an MCL or not comply with a treatment technique under certain conditions.

Level 1 Assessment: A level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system.

Level 2 Assessment: A level 2 assessment is a very detailed study of the water system to identify potential problems and determine (if possible) why an *E. coli* MDL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)
ppb: parts per billion or micrograms per liter (ug/L)
ppt: parts per trillion or nanograms per liter (ng/L)
ppq: parts per quadrillion or picograms per liter (pg/L)
pCi/L: picocuries per liter (a measure of radiation)

2023 Consumer Confidence Report

Durham Irrigation District

Here at Durham Irrigation District, we want you to understand the efforts we make to provide you with a safe and dependable drinking water supply. We continually monitor our drinking water quality and strive to protect our water resources. We regularly test our drinking water for many different constituents as required by State and Federal Regulations. This "Water Quality Report" includes those constituents that were **detected** in 2023 and may include earlier monitoring data.

Our drinking water is supplied by three treated groundwater wells. Wells 03 and 04 are located on Durham Dayton HWY. Well 05 is located on Holland Avenue. On 9/30/2023 the District issued a precautionary boil water notice to all customers due to the potential pressure loss from a power outage. After testing, the District did not find any contaminations or violations due to the power outage. On 10/3/2023 the precautionary boil water notice was lifted.

The source was evaluated by the county in November 2002, to determine if there were possible contaminating activities that might compromise the quality of the water. At the time, there were no associated contaminants detected in the water supply, however the source was still considered vulnerable to sewer collection systems in the area, historic gas stations, agricultural wells, as well as high and low density septic systems. A copy of the complete report is available upon request.

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 naturallyoccurring 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 (such as viruses and bacteria) that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife;

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

Pesticides and herbicides that may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses;

Organic chemical contaminants, including synthetic and volatile organic chemicals that are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems

Radioactive contaminants, that 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, the USEPA and the State Water

Resources Control Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

Please note that 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 U.S. EPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-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. US EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse Durham Irrigation a 343-1594 para asistirlo en español.

For questions or concerns about your drinking water you may attend our meeting held the **3rd Tuesday of the Month** or you may contact:

> Jeannie Trizzino 530-343-1594

These tables list all of the drinking water contaminants that were *detected* during the most recent sampling for each constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Water Resources Control Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one

tnese contaminants do year old. Any violation of	not cnange r of an AL, MCL,	not change frequently. Some of the data, though representa an AL, MCL, MRDL, or TT is asterisked and explained below.	ie or the da s asterisked	ta, thoug I and exp	gn represe Iained bel	ntative of tr ow.	not cnange rrequently. Some of the data, though representative of the water quality, are more than one f an AL, MCL, MRDL, or TT is asterisked and explained below.
L	ABLE 1 - SAN	TABLE 1 - SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA	S SHOWING	3 THE DE	TECTION (DF COLIFOR	M BACTERIA
Microbiological Contaminants	Highest No. of detections	No. of months in violation		MCL		MCLG	Typical Source of Bacteria
E. coli	(in the year) 0	0	(a)			0	Human and animal fecal waste
(a) Routine and repeared or contine sample or	at samples are to system fails to a	at samples are total coliform-positive and either is <i>E. coll</i> -positive, or sy system fails to analyze total coliform-positive repeat sample for <i>E. coll</i> .	ve and either is 'm-positive rep	s <i>E. coli</i> -po: eat sample	sitive, or syst e for E. coli.	em fails to tak	Routine and repeat samples are total coliform-positive and either is <i>E. coli</i> -positive, or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to take repeat samples following <i>E. coli</i> -positive routine sample or system fails to take repeat samples following <i>E. coli</i> -positive repeat sample for <i>E. coli</i> .
	TABLE 2 - SAI	FABLE 2 - SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER	TS SHOWIN	IG THE D	ETECTION	OF LEAD AI	VD COPPER
Lead and Copper	No. of samples collected	90th percentile level detected	No. sites exceeding AL	AL	N PHG le	No. of schools requesting lead sampling	Typical Source of Contaminant
Lead (ppb) 2021	10	4.10	None	15	0.2	None	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm) 2021	10	0.049	None	1.3	0.3 V	Not Applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
If present, elevated levels of l materials and components as control the variety of materia exposure by flushing your tap to have your water tested. Info Water Hotline (1-800-426-47	lead can cause s sociated with se als used in plum for 30 seconds ormation on lead '91) or at http://	ead can cause serious health probl sociated with service lines and horr is used in plumbing components. for 30 seconds to 2 minutes before mmation on lead in drinking water, 1 91) or at http://www.epa.gov/lead.	lems, especial ne plumbing. E When your w e using water f testing methoc	ly for pregr Durham Irri vater has t or drinking ds, and stel	lant women a gation is responden sitting 1 been sitting 1 or cooking 1 os you can ta	and young chil oonsible for prc for several hou f you are conco ke to minimize	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. Durham Irrigation 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 testing methods, and steps you can take to minimize exposure is available from the Safe 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/lead.
	TAE	TABLE 3 - SAMPLING RESULTS FOR SODIUM AND HARDNESS	NG RESULT	S FOR S(DDIUM ANI	D HARDNES	S
Chemical or Constituent (and reporting units)	Sample Date	e Level Detected	ted Range of Detections	e of tions	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	07/25/17	17 8.7	7 - 10		none	none	Salt present in the water and is generally naturally occurring
Hardnees (nnm)	07/26/17	130	06 - 151	д 1	euuu	euou	Sum of polyvalent cations present in the water generally magnesium and calcium

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	07/25/17	8.7	7 - 10	none	none	Salt present in the water and is generally naturally occurring
Hardness (ppm)	07/25/17	132	96 - 151	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring
TABLE 4	- DETECTION	OF CONTAMIN	ANTS WITH A	<u>PRIMARY</u> DRIN	IKING W	TABLE 4 - DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant
Nitrate (as nitrogen, N) (ppm)	2023	Well 03 - 2.8 Well 04 - 5.2 Well 05 - 1.6	Well 03 2.0 - 4.5	10	10	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitra the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women a deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider	above 10 mg/L is o carry oxygen, re e ability of the blo an infant, or you a	a health risk for infi sulting in a serious od to carry oxygen i re pregnant, you sh	ants of less than illness; symptorr n other individua iould ask advice	six months of a is include shortr Is, such as preg from your health	ge. Such nitrat ness of breath a nant women ar n care provider.	Nitrate in drinking water at levels above 10 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.
Perchlorate (pob)	04/12/23	0.2	9.0 - ON	U	-	Perchlorate is an inorganic chemical used in solid rocket propellant, fireworks, explosives, flares, matches, and a variety of industries. It usually gets into drinking water as a result of environmental
		!	22	,	4	

ou muctures. It usually gets mucturing water as a result of environmental contamination from historic aerospace or other industrial operations that used or use, store, or dispose of perchlorate and its salts.	E 5 - DETECTION OF CONTAMINANTS WITH A <u>SECONDARY</u> DRINKING WATER STANDARD	Typical Source of Contaminant	Runoff/leaching from natural deposits	Substances that form ions when in water, seawater influence	Runoff/leaching from natural deposits; seawater influence
£	DRINKING V	(DTCG) HG	N/A	Y/N	N/A
Q	ECONDARY	SMCL	1000	1600	200
ND - 0.6	ITS WITH A <u>S</u>	Range of Detections	166 - 237	239 - 365	2 - 5
0.2	F CONTAMINAN	Level Detected	211	319	4
04/12/23	DETECTION O	Sample Date	07/25/17	07/25/17	07/25/17
Perchlorate (ppb)	TABLE 5 -	Chemical or Constituent (and reporting units)	Total Dissolved Solids (ppm)	Specific Conductance (µS/cm)	Chloride (ppm)

* There are no PHGs, MCLGs, or mandatory standard health effects language for these constituents because secondary MCLs are set on the basis of aesthetics. Runoff/leaching from natural deposits; industrial wastes

N/A

500

8.45 - 18.2

13.2

07/25/17

Sulfate (ppm)