

## 2023 Consumer Confidence Report

### Water System Information

Water System Name: North Davis Meadows CA 5700788

Report Date: March 5, 2024

Type of Water Source(s) in Use: Groundwater

Name and General Location of Source(s): Well 1 (NDM1) is located on Fairway Drive. Well 2 (NDM2) is located near Blackhawk Place. A stand-by well is located east of Fairway Drive.

Drinking Water Source Assessment Information: An assessment was completed in 2003. A copy of the assessment is available at the Yolo County Community Services Department (530-666-8646).

Time and Place of Regularly Scheduled Board Meetings for Public Participation: 7 pm May 2024 at Church of the Christ, 39960 Barry Rd, Davis, CA

For More Information, Contact: Kimberly Villa at 530-813-5178

### About This Report

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 to December 31, 2022 and may include earlier monitoring data.

### Importance of This Report Statement in Five Non-English Languages (Spanish, Mandarin, Tagalog, Vietnamese, and Hmong)

Language in Spanish: Este informe contiene información muy importante sobre su agua para beber. Favor de comunicarse North Davis Meadows a 292 West Beamer Street, Woodland, CA 95695 or 530-813-5178 para asistirlo en español.

### Terms Used in This Report

Term	Definition
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 <i>E. coli</i> MCL violation has occurred and/or why total coliform bacteria have been found in our water system on multiple occasions.
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.

<b>Term</b>	<b>Definition</b>
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 are set by the U.S. Environmental Protection Agency (U.S. 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 and reporting requirements, and water treatment requirements.
Public Health Goal (PHG)	The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
Regulatory Action Level (AL)	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
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 levels.
Treatment Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water.
Variances and Exemptions	Permissions from the State Water Resources Control Board (State Board) to exceed an MCL or not comply with a treatment technique under certain conditions.
N/A	Not applicable
ND	Not detectable at testing limit.
NTU	Nephelometric Turbidity Units
ppm	parts per million or milligrams per liter (mg/L)
ppb	parts per billion or micrograms per liter (µg/L)
ppt	parts per trillion or nanograms per liter (ng/L)
ppq	parts per quadrillion or picogram per liter (pg/L)
pCi/L	picocuries per liter (a measure of radiation)

## Sources of Drinking Water and Contaminants that May Be Present in Source Water

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, 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 stormwater 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 stormwater 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 stormwater 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.

## Regulation of Drinking Water and Bottled Water Quality

In order to ensure that tap water is safe to drink, the U.S. EPA and the State Board prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. The U.S. Food and Drug Administration regulations and California law also establish limits for contaminants in bottled water that provide the same protection for public health.

## About Your Drinking Water Quality

### Drinking Water Contaminants Detected

Tables 1, 2, 3, 4, 5, 6, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State 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 year old. Any violation of an AL, MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

**Table 1. Sampling Results Showing the Detection of Coliform Bacteria**

Complete if bacteria are detected.

Microbiological Contaminants	Highest No. of Detections	No. of Months in Violation	MCL	MCLG	Typical Source of Bacteria
<i>E. coli</i>	(2023) 0	0	(a)	0	Human and animal fecal waste

(a) Routine and repeat samples are total coliform-positive and either is *E. coli*-positive or system fails to take repeat samples following *E. coli*-positive routine sample or system fails to analyze total coliform-positive repeat sample for *E. coli*.

**Table 2. Sampling Results Showing the Detection of Lead and Copper**

Complete if lead or copper is detected in the last sample set.

Lead and Copper	Sample Date	No. of Samples Collected	90 <sup>th</sup> Percentile Level Detected	No. Sites Exceeding AL	AL	PHG	No. of Schools Requesting Lead Sampling	Typical Source of Contaminant
Lead (ppb)	September 2022	6	ND	0	15	0.2	Not applicable	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
Copper (ppm)	September 2022	6	0.45	0	1.3	0.3	Not applicable	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

**Table 3. Sampling Results for Sodium and Hardness**

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant
Sodium (ppm)	7/30/21	102	94-110	None	None	Salt present in the water and is generally naturally occurring
Hardness (ppm)	7/30/21	480	450-510	None	None	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually naturally occurring

**Table 4. Detection of Contaminants with a Primary Drinking Water Standard**

<b>Chemical or Constituent (and reporting units)</b>	<b>Sample Date</b>	<b>Level Detected</b>	<b>Range of Detections</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
Arsenic (ppb)	7/30/21	3.05	2.2-3.9	10	0.004	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Barium (ppb)	7/30/21	195	180-210	1000	2000	Discharge of oil drilling wastes and from metal refineries; erosion of natural deposits
Chromium (Total) (ppb)	7/30/21	31	26-35	50	(100)	Discharge from steel and pulp mills and chrome plating; erosion of natural deposits
Fluoride (ppm)	7/30/21	0.31	0.29-0.32	2	1	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Gross Alpha (pCi/L)	7/12/16	2.5	1.26-3.79	15	(0)	Erosion of natural deposits
<b>Nitrate as N (ppm)</b> <i>Sampled monthly at NDM1 and NDM2</i>	<b>2023</b>	<b>10</b>	<b>5-15*</b>	<b>10</b>	<b>10</b>	<b>Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits</b>
Selenium (ppb)	7/30/21	5.5	5 - 6	50	30	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits;

						discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Sampled within the Distribution System						
TTHMs (Total Trihalomethanes) (ppb)	2023	1.7	N/A	80	N/A	Byproduct of drinking water disinfection
HAA5 (Sum of 5 Haloacetic Acids) (ppb)	2023	<2.0	N/A	60	N/A	Byproduct of drinking water disinfection
Residual Chlorine (ppm)	2023	0.77	0.5 – 1.5	[4.0]	[4.0]	Drinking water disinfectant added for treatment

Table 5. Detection of Contaminants with a Secondary Drinking Water Standard

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	SMCL	PHG (MCLG)	Typical Source of Contaminant
<b>Aluminum (ppb)</b> <i>Sampled quarterly at NDM1</i>	<b>2023</b>	<b>163</b>	<b>&lt;20 – 650*</b>	<b>200</b>		<b>Erosion of natural deposits; residue from some surface water treatment processes</b>
Copper (ppm)	7/30/21	< .002	< .002 – 0.0029	1		Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Chloride (ppm)	7/30/21	75	64 – 86	500		Runoff/leaching from natural deposits; seawater influence
<b>Iron (ppb)</b> <i>Sampled quarterly at NDM1</i>	<b>2023</b>	<b>300</b>	<b>&lt; 10 – 1200*</b>	<b>300</b>		<b>Leaching from natural deposits; industrial wastes</b>
Manganese (ppb)	7/30/21	2.5	< 2 – 4.9	50		Leaching from natural deposits

Specific Conductivity (µS/cm )	7/30/21	1250	1200 – 1300	1600		Substances that form ions when in water; seawater influence
Sulfate (ppm)	7/30/21	71	58 – 84	500		Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (ppm)	7/30/21	760	720 – 800	1000		Runoff/leaching from natural deposits
Turbidity (NTU)	7/30/21	1.58	0.25 – 2.9	5		Soil runoff

Table 6. Detection of Unregulated Contaminants

Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	Notification Level	Health Effects
Alkalinity (ppm)	7/30/21	460	450-470	N/A	
Bicarbonate (ppm)	7/30/21	565	550 – 580	N/A	
<b>Boron (ppb)</b>	<b>2015</b>	<b>1085</b>	<b>970 – 1200*</b>	<b>1000</b>	<b>Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.</b>
Calcium (ppm)	7/30/21	60	53 – 66	N/A	
Carbonate (ppm)	7/30/21	2.9	2.8 – 3.0	N/A	
Hexavalent Chromium (ppb)	2018	25	16 – 34	N/A	
Magnesium (ppm)	7/30/21	81	77 – 85	N/A	
pH	7/30/21	7.9	7.9	N/A	
Potassium (ppm)	7/30/21	< 1	<1 - 1	N/A	

### Additional General Information on Drinking 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 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. U.S. 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).

**Lead-Specific Language:** 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. North Davis Meadows 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 do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants. 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 (1-800-426-4791) or at <http://www.epa.gov/lead>.

**Additional Special Language for Nitrate:** 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 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 specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity.

### Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

**Table 7. Violation of a MCL, MRDL, AL, TT or Monitoring Reporting Requirement**

Violation	Explanation	Duration	Actions Taken to Correct Violation	Health Effects Language
Nitrate MCL Violation	The well located at Blackhawk Place (NDM2) continues to produce groundwater with Nitrate levels that exceed the Primary MCL of 10 ppm. The well located at Fairway Drive (NDM1) had one sample that exceeded the	North Davis Meadows County Service Area (CSA #10) has been under a Compliance Order since 2009 and has been ordered to correct any water quality violations.	The CSA is continuing efforts to connect to the City of Davis water supply. The Do Not Drink notice is still in effect and will not be removed until the CSA decides upon the best alternative for a new drinking water supply. For	Infants below the age of six months who drink water containing nitrate in excess of the MCL may quickly become seriously ill and, if untreated, may die because high nitrate levels can interfere with the capacity of the infant's blood to carry oxygen.



	Nitrate MCL. The well is now monitored monthly instead of quarterly.		more information, please contact the Yolo County Service Areas Administrative Team at 530-666-8431.	Symptoms include shortness of breath and blueness of the skin. High nitrate levels may also affect the oxygen-carrying ability of the blood of pregnant women.
Boron NL Exceedance	Both wells produce water with high levels of Boron, above the notification level of 1000 ppm.	Boron was last sampled for in 2015.	At this time, Boron is not a regulated contaminant. However, notice must be given to the water user if the concentration is above 1000 ppm.	Boron exposures resulted in decreased fetal weight (developmental effects) in newborn rats.
Aluminum Secondary MCL Violation	The well located at Fairway Dr (NDM1) continues to produce groundwater with Aluminum levels that exceed the Secondary MCL of 200 ppb.	Aluminum is sampled quarterly at NDM1. Only the 4/19/2023 sample was over the secondary MCL.	At this time, the secondary MCL does not require corrective action. However, notice is given to the water users in the CCR.	The Aluminum MCL was set to protect you against unpleasant aesthetic effects (e.g., color) and the staining of plumbing fixtures (e.g., tubs and sinks) and clothing while washing. The high aluminum levels are due to leaching of natural deposits.
Iron Secondary MCL Violation	The well located at Fairway Dr (NDM1) continues to produce groundwater with Iron levels that exceed the Secondary MCL of 300 ppb.	Iron is sampled quarterly at NDM1. Only the 4/19/2023 was over the secondary MCL.	At this time, the secondary MCL does not require corrective action. However, notice is given to the water users in the CCR.	The iron MCL was set to protect you against unpleasant aesthetic effects (e.g., color, taste, and odor) and the staining of plumbing fixtures (e.g., tubs and sinks) and clothing while washing. The high iron levels are due to leaching of natural deposits.

**For Water Systems Providing Groundwater as a Source of Drinking Water****Table 8. Sampling Results Showing Fecal Indicator-Positive Groundwater Source Samples**

<b>Microbiological Contaminants (complete if fecal-indicator detected)</b>	<b>Total No. of Detections</b>	<b>Sample Dates</b>	<b>MCL [MRDL]</b>	<b>PHG (MCLG) [MRDLG]</b>	<b>Typical Source of Contaminant</b>
<i>E. coli</i>	(2023) 0	Monthly in 2023	0	(0)	Human and animal fecal waste
Enterococci	N/A	N/A	TT	N/A	Human and animal fecal waste
Coliphage	N/A	N/A	TT	N/A	Human and animal fecal waste