2023 Consumer Confidence Report Data CALEDONIA WATER UTILITY - VILLAGE OF, PWS ID: 25201847

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, o hable con alguien que lo entienda.

Dlaim ntawv tshaabzu nuav muaj lug tseemceeb heev nyob rua huv kws has txug cov dlej mej haus. Kuas ib tug paab txhais rua koj, los nrug ib tug kws paub lug thaam.

Water System Information

If you would like to know more about the information contained in this report, please contact Tony Bunkelman at (262) 835-6416.

Opportunity for input on decisions affecting your water quality

Utility Commission meetings are held at 6:00 PM on the first Wednesday of the month at the Utility District Office, 333 4 1/2 Mile Road, Racine, WI, 53402.

Health Information

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 (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 systems 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 guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Environmental Protection Agency's safe drinking water hotline (800-426-4791).

Source(s) of Water

Source ID	Source	Depth (in feet)	Status
1	Purchased Surface Water	-	Active
2	Purchased Surface Water	-	Active

Purchased Water

PWS ID	PWS Name
24101726	OAK CREEK WATERWORKS
25200626	RACINE WATERWORKS

To obtain a summary of the source water assessment please contact Tony Bunkelman at (262) 835-6416.

Educational Information

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, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which 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, which 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, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems.
- 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 that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which shall provide the same protection for public health.

Definitions

Term	Definition
AL	Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAL	Health Advisory Level: The concentration of a contaminant which, if exceeded, poses a health risk and may require a system to post a public notice.
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 MCL violation has occurred or why total coliform bacteria have been found in our water system, or both, on multiple occasions.
MCL	Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs 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 no known or expected risk to health. MCLGs allow for a margin of safety.
MFL	million fibers per liter
MRDL	Maximum residual disinfectant level: 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.
MRDLG	Maximum residual disinfectant level goal: 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.
mrem/year	millirems per year (a measure of radiation absorbed by the body)
NTU	Nephelometric Turbidity Units
pCi/l	picocuries per liter (a measure of radioactivity)
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
ppq	parts per quadrillion, or picograms per liter
SMCL	Secondary drinking water standards or Secondary Maximum Contaminant Levels for contaminants that affect taste, odor, or appearance of the drinking water. The SMCLs do not represent health standards.
TCR	Total Coliform Rule
TT	Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water.

Detected Contaminants

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

Disinfection Byproducts

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
HAA5 (ppb)	SM-1	60	60	16.6	7.51–25.1		No	By-product of drinking water chlorination
TTHM (ppb)	SM-1	80	0	48.5	35.2 – 64.4		No	By-product of drinking water chlorination
HAA5 (ppb)	SM-2	60	60	19.5	7.59 – 28.0		No	By-product of drinking water chlorination
TTHM (ppb)	SM-2	80	0	52.6	37.7 – 72.38		No	By-product of drinking water chlorination
HAA5 (ppb)	SM-3	60	60	17.5	13.9 – 25.4		No	By-product of drinking water chlorination
TTHM (ppb)	SM-3	80	0	32.8	25.4 – 43.0		No	By-product of drinking water chlorination
HAA5 (ppb)	SM-4	60	60	14.9	12.84 – 19.2		No	By-product of drinking water chlorination
TTHM (ppb)	SM-4	80	0	33.2	24.36 – 39.9		No	By-product of drinking water chlorination

Inorganic Contaminants

Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
COPPER (ppm)	AL=1.3	1.3	0.2	0 of 30 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits; Leaching from wood preservatives
LEAD (ppb)	AL=15	0	0.7	0 of 30 results were above the action level.		No	Corrosion of household plumbing systems; Erosion of natural deposits

Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. EPA required us to participate in this monitoring.

Contaminant (units)	Minimum Reporting Limit	Caledonia Level	Sample Date (if prior to 2023)
CYLINDROSPERMOPSIN (ppb)	0.090	Below MRL	2018
ANATOXIN-A (ppb)	0.030	Below MRL	2018
GERMANIUM			2019
MANGANESE			2019
ALPHA-HEXACHLOROCYCLOHEXANE			2019
CHLOPHYIFOS			2019
DIMETHIPIN			2019
ETHOPROP			2019
OXYFLUORFEN			2019
PROFENOFOS			2019

Contaminant (units)	Minimum Reporting Limit	Caledonia Level	Sample Date (if prior to 2023)
TEBECONAZOLE			2019
TOTAL PERMETHRIN			2019
TRIBUFOS			2019
1-BUTANOL			2019
2-METHOXYETHANOL			2019
2-PROPEN-1-OL			2019
BUTYLATED HYDROXYANISOLE			2019
O-TOLUIDINE			2019
QUINOLINE			2019
HAA5			2019
HAA6Br			2019
HAA9			2019

Additional Health Information

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village of Caledonia Water Utility 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.

Purchased Water – Oak Creek

Our water system purchases water from OAK CREEK WATERWORKS. In addition to the detected contaminants listed above, these are the results from OAK CREEK WATERWORKS.

Source(s) of Water

Source ID	Source	Depth (in feet)	Waterbody Name	Status
2	Surface Water	45	Lake Michigan	Active

To obtain a summary of the source water assessment please contact, Mike Robe at (414) 764-1867.

Detected Contaminants

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

Microbiological Contaminants

Contaminant	MCL	MCLG	Count of Positives	Violation	Typical Source of Contaminant
Coliform (TCR)	Presence of coliform bacteria in <=5% of monthly samples.	0	0	No	Naturally present in the environment.

Disinfection Byproducts

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
HAA5 (ppb)	D15	60	60	13 ppb LRAA	9-19 ppb		No	By-product of drinking water disinfection
TTHM (ppb)	D15	80	0	26.6 ppb LRAA	13.4-41.7 ppb		No	By-product of drinking water disinfection

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
HAA5 (ppb)	D9	60	60	11 ppb LRAA	9-11 ppb		No	By-product of drinking water disinfection
TTHM (ppb)	D9	80	0	26.3 ppb LRAA	13.1-32.8ppb		No	By-product of drinking water disinfection

Inorganic Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
ATRAZINE (ppb)		3	3	0.0			No	Herbicide runoff
BARIUM (ppm)		2	2	0.020			No	Natural deposits
FLUORIDE (ppm)		4	4	0.6			No	Natural deposits. Water additive that promotes strong teeth.
NITRATE (N03-N) (ppm)		10	10	0.38			No	Natural deposits, fertilizer, animal, waste, sewage.

Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
COPPER (ppm)	AL=1.3	1.3	0.16	0 of 30 results exceeded AL		No	Natural deposits. Corrosion of household plumbing systems.
LEAD (ppb)	AL=15	0	2.00	0 of 30 results exceeded AL		No	Natural deposits. Corrosion of household plumbing systems.

Radioactive Contaminants

Contaminant (units)	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
Radium, (combined) (pCi/l)	30	0	0.3	0.3	4/6/2020	No	Natural Deposits

Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. EPA required us to participate in this monitoring.

Contaminant (units)	Level Found	Range	Sample Date (if prior to 2023)
Metolachlor (dual) (ppb)	0.00	0.00-0.01	7/22/2020
Sodium	13 ppm		
Sulfate	21 ppm		

PFAS Contaminants

Perfluoroalkyl and polyfluoroalkyl substances (PFAS) are a large group of human-made chemicals that have been used in industry and consumer products worldwide since the 1950. The following table list PFAS contaminants which were detected in your water and that have a Recommended Public Health Groundwater Standard (RPHGS) or Health Advisory Level (HAL). There are no violations for detections of contaminants that exceed the RPHGS or HAL. The RPHGS are levels at which concentrations of the

contaminant present a health risk and are based on guidance provided by the Wisconsin Department of Health Services.

Substance	RPHGS or HAL (ppt)	Level Found (ppt)	Range (ppt)	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
PFBS	450,000	0.51	0.39-0.62		No	Used in industry and consumer products
PFHXS	40	0.94	0.88-1.00		No	Used in industry and consumer products
PFHXA	150,000	1.75	1.3-2.2		No	Used in industry and consumer products
PFOS	20	2.15	2.0-2.3		No	Used in industry and consumer products
PFOA	20	2.2	1.8-2.6		No	Used in industry and consumer products
PFOA and PFOS Total	20	4.35	3.8-4.9		No	Used in industry and consumer products

Purchased Water – Racine

Our water system purchases water from RACINE WATERWORKS. In addition to the detected contaminants listed above, these are the results from RACINE WATERWORKS.

Source(s) of Water

Source ID	Source	Depth (in feet)	Waterbody Name	Status
2	Surface Water		Lake Michigan	Active

To obtain a summary of the source water assessment please contact Joel Brunner at (262) 636-9534.

Detected Contaminants

Your water was tested for many contaminants last year. We are allowed to monitor for some contaminants less frequently than once a year. The following tables list only those contaminants which were detected in your water. If a contaminant was detected last year, it will appear in the following tables without a sample date. If the contaminant was not monitored last year, but was detected within the last 5 years, it will appear in the tables below along with the sample date.

Microbiological Contaminants

Contaminant (units)	MCL	MCLG	Highest Monthly	Violation	Typical Source of Contaminant
COLIFORM (TCR)	>5% of monthly samples	0	0.00%	No	Human and animal fecal waste
VIRUSES AND LEGIONELLA	TT	0			Found naturally in water, human and animal fecal waste and multiplies in heating systems

Disinfection Byproducts

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
HAA (ppb)		60	0	19.4	12-29		No	By-product of drinking water chlorination
TTHM (ppb)		80	0	36.3	21-60		No	By-product of drinking water chlorination

Inorganic Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
ASBESTOS (million fibers per liter)		7		<0.20		2020	No	Decay of asbestos cement in water mains; erosion of natural deposits
ANTIMONY TOTAL (ppb)		6	6	<0.32			No	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
ARSENIC (ppb)		10	10	<1.1			No	Erosion of natural deposits

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
BARIUM (ppm)		2000	2000	23			No	Erosion of natural deposits
BERYLLIUM (ppb)		4		<0.06			No	By-product of industrial processes.
CADMIUM (ppb)		5		<0.12			No	By-product of industrial processes, erosion of natural deposits
CHLORINE RESIDUAL (ppm)		4	4	1.26	1.09-1.61		No	Water additive for disinfection
CHROMIUM (ppb)		100		<1.1			No	Erosion of natural deposits
CYANIDE (ppb)		200		<11			No	By-product of industrial, mining, and metal finishing processes
FLOURIDE (ppm)		4		0.74	0.65-0.87		No	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
MERCURY (ppb)		2		<0.047			No	Erosion of natural deposits
NICKEL (ppb)		100		<1.0			No	Erosion of natural deposits
NITRATE (ppm)		10	10	0.55			No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
NITRITE (ppm)		1	1	<0.040			No	Runoff from fertilizer use;

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
								Leaching from septic tanks, sewage
pH		6.5-8.5		7.91	7.46-7.98		No	Erosion of natural deposits
SELENIUM (ppb)		50		<1.0			No	Erosion of natural deposits
SULFATE (ppm)		250		25				Runoff/leaching from natural deposits, industrial wastes
THALLIUM (ppb)		2		<0.76			No	Erosion of natural deposits

Contaminant (units)	Action Level	MCLG	90th Percentile Level Found	# of Results	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
COPPER (ppm)	AL=1.3	1.3	0.20	0 of 53 results were above the action level.	2022	No	Corrosion of household plumbing systems; Erosion of natural deposits
LEAD (ppb)	AL=15	0	5.7	0 of 53 results were above the action level.	2022	No	Corrosion of household plumbing systems; Erosion of natural deposits

Organic Compounds (sampled in 2023)

Contaminant (units)	MCLG	MCL	Results	Violation	Typical Source of Contaminant
Bromodichloromethane (ppb)	0	80	6.1	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Bromoform (ppb)	0	80	0.37	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Chloroform (ppb)	0	80	8.4	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Dibromochloromethane (ppb)	0	80	3.2	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
VOLATILE ORGANIC COMPOUNDS (ppb)			37 other compounds were tested with no detection of any of these chemicals	No	By-product of industrial processes; petroleum production; gas stations; urban storm runoff; residential uses
Atrazine (ppb)	3	3	0.024,0.024	No	Storm run-off from agriculture pesticide application
Metolachlor (Dual) (ppb)	NA	NA	0.011, <0.0065	No	Storm run-off from agriculture pesticide application

Contaminant (units)	MCLG	MCL	Results	Violation	Typical Source of Contaminant
Bromodichloro methane (ppb)	0	80	6.1	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Bromoform (ppb)	0	80	0.37	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Chloroform (ppb)	0	80	8.4	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Dibromochloro methane (ppb)	0	80	3.2	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
SYNTHETIC ORGANIC COMPOUNDS (ppb)			41 other compounds were tested with no detection of any of these chemicals.	No	By-product of industrial processes; petroleum production; gas stations; urban storm runoff; residential uses
Perfluorooctano ic Acid-PFOA (ppt)	70	70	1.73, 2.0	No	By-product of industrial processes, food packaging, commerical household products

Contaminant (units)	MCLG	MCL	Results	Violation	Typical Source of Contaminant
Bromodichloro methane (ppb)	0	80	6.1	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Bromoform (ppb)	0	80	0.37	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Chloroform (ppb)	0	80	8.4	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Dibromochloro methane (ppb)	0	80	3.2	No	By-product of industrial processes and drinking water chlorination, petroleum production, gas stations, urban storm run-off and residential uses
Perfluorooctane Sulfonic Acid-PFOS (ppt)	70	70	1.64, 2.0	No	By-product of industrial processes, food packaging, commerical household products

Particulate Results

Contaminant (units)	MCL	Level Found	Violation	Typical Source of Contaminant
TURBIDITY (NTU)	TT Never >1, 95% of the time <0.3 NTU	Membrane Filtration Max = 0.048 NTU	No	Soil runoff; suspended matter in source water
TURBIDITY (NTU)	TT Never >1, 95% of the time <0.3 NTU	Sand Filtration Max = 0.122 NTU	No	Soil runoff; suspended matter in source water

Radioactive Contaminants

Contaminant (units)	Site	MCL	MCLG	Level Found	Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
URANIUM (ppb)		30	0	0.347	0.347	2020	No	Erosion of natural deposits
ALPHA EMITTERS (pCi/l)		15	0	0.494	0.494	2020	No	Erosion of natural deposits
COMBINED RADIUM (pCi/l)		5	0	0.837	0.837	2020	No	Erosion of natural deposits

Unregulated Contaminants

Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. EPA required us to participate in this monitoring. Sampling was conducted in 2018-2019 as part of the EPA UCMR4 sampling program.

Contaminant (units)	MCLG	MCL	Ave. Results Range	Sample Date (if prior to 2023)	Violation	Typical Source of Contaminant
ALKALINITY (ppm)	NA	NA	105-126		No	Erosion of natural deposits, addition of chemical in water treatment, industrial by-product
SODIUM (ppm)	NA	NA	18		No	Erosion of natural deposits
SILICA/SILICATE (ppm)	NA	NA	2.7		No	Erosion of natural deposits
ORTHO-PHOSPHATE (ppm)	NA	NA	0.55-0.95		No	Erosion of natural deposits,
TOTAL ORGANIC CARBON (ppm)	1908		1800-2080	2018-2019		Erosion of natural deposits

Other Compliance

Monitoring and Reporting Violations

Oak Creek – Monitoring Error

Description	Contaminant Group	Sample Location	Compliance Period Beginning	Compliance Period Ending
DBP Monitoring/Reporting	Toc_Raw	2	9/1/2023	9/30/2023

NONE

Violation of the Terms of a Variance, Exemption, or Administrative or Judicial Order

NONE

Noncompliance with Recordkeeping and Compliance Data

NONE