

Annual Drinking Water Quality Report for Calendar Year 2015

Otter Lake Water Commission - IL 1175200

Annual Water Quality Report for the period of January 1 to December 31, 2015. This report is intended to provide you with important information about your drinking water and the efforts made by the water system to provide safe drinking water. The source of drinking water used by Otter Lake Water Commission is Surface Water. For more information regarding this report contact:

*Este informe contiene informacion mil.
importante sobre el agua que listed be be.
Tradizcalo 6 hable con alguien que /0 entienda
bien.*

Contact Name: Robert Dill
Telephone Number: (217) 965-1566
E-mail (if available): otterlake@otterlakewater.net

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings on the 2nd Tuesday of the month at 5:00 pm. These meetings are held at the Commission office at 6475 W Montgomery Road in Virden. This report is also available on our website at www.otterlakewater.net/OLWC20CCR202015.pdf.

Sources of Drinking 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, 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 storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or leaching.
- Pesticides and herbicides, which 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, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.

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 EPA's Safe Drinking Water Hotline at (800) 426-4791.

In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

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. EPA/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 (800-426-4791).

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. We 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 water 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 <http://www.epa.gov/safewater/lead>.

Source Water Name	Type of Water	Report Status	Location
INTAKE (58059) OTTER LAKE	OTTER LAKE INTAKE SW		About 1000 LOT W OF WTP

Source Water Assessments

We want our valued customers to be informed about their water quality. If you would like to learn more, please feel welcome to attend any of our regularly scheduled meetings. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by the Otter Lake Water Commission office or call (217) 593-1566. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water: Susceptibility to Contamination Determination; and documentation / recommendation or Source Water Protection Efforts, you may access the Illinois CPA website at <http://www.cpa.state.il.us/cgi-bin/wp/swap-filtsheets.pl>.

Otter Lake is utilized by the Otter Lake Water Commission (Facility II 11752(0) to provide water to eight communities in Christian, Sangamon and Macoupin Counties and the surrounding rural areas. This facility draws water from Otter Lake through one surface water intake (IEPA 1158059). The water is obtained via two 700 and one 1,400 gallon per minute pumps located on an elevated fill roadway bisecting the lake. The supply provides approximately 1.5 million gallons per day to 467 service connections and an estimated population of 16,996. Eight facilities purchase water from the Commission, including Auburn (1670050), Divernon (1670450), Girard (1171150), Pawnee (1670550), Thayer (1671250), Virden (11711(0), Nilwood (117(750) and Tovey.

Illinois EPA considers all surface water sources of public water supply to be susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff land disposal (septic systems) and shoreline erosion.

2015 Regulated Contaminants Detected

Water Quality Test Results

Here are a few definitions and scientific terms to know which will help you understand the information in the contaminant detection tables.

Maximum Contaminant Level Goal or MCLG	The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG, allow for a margin of safety.
Maximum Contaminant Level or MCL	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.
Treatment Technique (TT)	A required process intended to reduce the level of a contaminant in drinking water.
Action Level (AL)	The concentration of a contaminant that triggers treatment or other required actions by the water supply.
Maximum Residual Disinfectant Level Goal or 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 or the use of disinfectants to control microbial contaminants.
Maximum Residual Disinfectant Level or 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.
ppb	Micrograms per liter or parts per billion or one ounce in 7,350,000 gallons of water.
na	Not applicable.
NTU	Nephelometric Turbidity Units.
Avg	Regulatory compliance with some MCLs are based on running annual average or monthly samples.
ppm	Milligrams per liter or parts per million or one ounce in 7.350 gallons of water.

Turbidity

Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest Single Measurement	1 NTU	0.93 NTU	N	Soil runoff
Lowest Monthly Meeting Limit	0.3 NTU	97	N	Soil runoff

Tot:11 Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system must meet all TOC removal requirements set, unless a TOC violation is noted in the violations section.

Regulated Contaminants

Disinfectants & Disinfection Byproducts	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MeL	Units	Violation	Likely Source of Contamination
Chloramines	12/31/2015	1.6	0.9 -2.2	MRDLG =4	MRDL= 4	ppll	N	Water additive used to control microbes.
Haloacetic Acids (HAAS)	2015	39	29.5 -44.6	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (TTHM)	2015	63	33.2 - 90.4	No goal for the total	80	ppb	N	By-product of drinking water disinfection.
Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Arsenic	2015	I	0.914 -0.914	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2015	0.0413	0.0413 - 0.0413	2	2	ppm	N	Discharge of drilling wastes: Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2015	I	1.03 - 1.03	4	4.0	pplll	N	Erosion of natural deposits: Water additive which promotes strong teeth: Discharge from fertilizer and aluminum factories.
Manganese	2014	48	47.5 -47.5	150	150	ppb	N	This contaminant is not currently regulated by the USEPA. However, the state regulates. Erosion of natural deposits.
Nitrate (measured as Nitrogen)	2015	2	0.437 - 2.31	10	10	pplll	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite (measured as Nitrogen)	2014	0.039	() - 0.039	I	I	pplll	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	2015	15	15 -15			ppm	N	Erosion from naturally occurring deposits: Used in water softener re-generation.
Synthetic Organic Contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Simazine	2014	I	0-0.845	4	4	ppb	N	Herbicide runoff.

The Otter Lake Water Commission had no violations in 2015.