

2021 VILLAGE OF FREEBURG

Annual Drinking Water Quality Report

FREEBURG

IL1630600

Annual Water Quality Report for the period of January 1 to December 31, 2021

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 FREEBURG is Purchased Surface Water

For more information regarding this report contact:

Name John Tolan/Village of Freeburg

Phone 618/539-5545

14 Southgate Center Freeburg, IL 62243

Este informe contiene información muy importante sobre el agua que usted bebe. Tradúzcalo ó hable con alguien que lo entienda bien.

Source 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: <ul style="list-style-type: none"> <li>- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.</li> <li>- 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 farming.</li> <li>- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.</li> <li>- 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.</li> <li>- Radioactive contaminants, which can be naturally-occurring or be the result of oil and gas production and mining activities.</li> </ul>

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of certain contaminants does not necessarily indicate that the water poses a health risk. More information on 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 who have undergone chemotherapy, persons who have undergone organ transplants, people with HIV or other immune system disorders, some elderly people, and infants can be particularly at risk from certain contaminants. These people should seek advice from their health care provider about appropriate means to limit their exposure to these contaminants. EPA/CDC guidelines on appropriate means to limit 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 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 Information

Source Water Name		Type of Water	Report Status	Location
CC 01-MASTER METER 1	FF IL1635300 TP02	SW	_____	N SIDE RT 15 100 FT E OF OLD WTP
CC 02-MASTER METER 2	FF IL1635300 TP02	SW	_____	ACROSS HWY FROM FSH EST

## FREEBURG

### Source Water Assessment

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 Village of Freeburg Board Meetings are the first and third Monday's of every month at Village Hall at 7:30 p.m. The Water/Sewer Committee meeting is the second Wednesday following the first Board Meeting of the month at 5:45 p.m. 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 Village Hall or call our water operator at 618/539-5545. To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Where does my water come from? The Village of Freeburg purchases its water from Freeburg Smithton Hecker (FSH) Water Commission. The FSH Water Commission was organized in the 1970's to bring drinking water to their communities from the Summerfield Lebanon Mascoutah (SLM) water plant. The SLM water plant draws/treats water from the Kaskaskia River. Prior to the organization of the FSH Water Commission, the Village of Freeburg had a water plant on Route 15 and drew water from Silver Creek.

Source of Water: S L M WATER COMMISSION Illinois EPA considers all surface water sources of community water supply to be susceptible to potential pollution problems, hence, the reason for mandatory treatment for all surface 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.

**Lead and Copper**

## Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

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

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	11/07/2019	1.3	1.3	0.247	0	ppm	N	Erosion of natural deposits; Leaching wood preservatives; Corrosion of house plumbing systems.
Lead	11/07/2019	0	15	9	2	ppb	N	Corrosion of household plumbing system Erosion of natural deposits.

**Water Quality Test Results**

Definitions:	The following tables contain scientific terms and measures, some of which may require explanation.
Avg:	Regulatory compliance with some MCLs are based on running annual average of monthly samples.
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 and/or why total coliform bacteria have been found in our water system on multiple occasions.
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.
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. MCLGs allow for a margin of safety.
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.
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 of the use of disinfectants to control microbial contaminants.
na:	not applicable.
mrem:	millirems per year (a measure of radiation absorbed by the body)
ppb:	micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

## Water Quality Test Results

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

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

**regulated Contaminants**

Disinfectants and Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	12/31/2021	2	0.8 - 2.6	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)	2021	40	4.6 - 47.2	No goal for the total	60	ppb	N	By-product of drinking water disinfection
Total Trihalomethanes (TTHM)	2021	63	31 - 66.6	No goal for the total	80	ppb	N	By-product of drinking water disinfection

PLEASE NOTE - This report will not be mailed. Copies of this report are available at Village Hall and are also on our website at [www.freeburg.com](http://www.freeburg.com)

# Summerfield, Lebanon, Mascoutah Water Commission

5627 Highbanks Road – Mascoutah, Illinois 62258

Phone (618)566-7100 – Fax (618)566-8033

slmwater@wisperhome.com

## Annual Drinking Water Quality Report

S L M WATER COMMISSION

IL1635090

Annual Water Quality Report for the period of January 1 to December 31, 2021

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

S L M WATER COMMISSION is Surface Water

For more information regarding this report contact:

SLM Water Commission

Name 5627 Highbanks Road

Phone Mascoutah, IL 62258

618 566 7100

### Source of Drinking Water

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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 farming.

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.

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Source Water Information

Source Water Name *KASKASKIA RIVER*

INTAKE (60023) RIVER INTAKE

INTAKE (60024) SIDE CHANNEL RESERV

Type of Water

Report Status Location

SH

RIVER 1/2 MIE OF END OF SUNRFLD-HIBANKS

SH

SIDE-CHANNEL RESE ADJACENT TO PLANT

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Lead and Copper

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Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	09/26/2019	1.3	1.3	0.202	0	ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.

Turbidity

	Limit (Treatment Technique)	Level Detected	Violation	Likely Source of Contamination
Highest single measurement	1 NTU	0.08 NTU	N	Soil runoff.
Lowest monthly meeting limit	0.15 NTU	100%	N	Soil runoff.

Information Statement: 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.

Total Organic Carbon

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

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Water Quality Test Results

Definitions:

Avg:

Level 1 Assessment:

Level 2 Assessment:

Maximum Contaminant Level or MCL:

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or MRDL:

Goal or MRDLG:

na:

item:

ppb:

ppm:

Treatment Technique or TT:

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Regulated Contaminants

SLM Water Commission

Disinfectants and By-products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	12/31/2021	3	2.1 - 3.4	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Halacetic Acids (HAA5)	2021	43	27.9 - 54.8	No goal for the total	60	ppb	N	By-product of drinking water disinfection.
Total Trihalomethanes (THM)	2021	61	33.8 - 70	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	2021	1	1.38 - 1.38	0	10	ppb	N	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.
Barium	2021	0.0443	0.0443 - 0.0443	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride	2021	0.8	0.8 - 0.8	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizers and aluminum factories.
Nitrate [measured as Nitrogen]	2021	0.36	0.36 - 0.36	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewages; Erosion of natural deposits.
Sodium	2021	17	16.6 - 16.6			ppm	N	Erosion from naturally occurring deposits. Use in water softener regeneration.
Combined Radium 226/228	2021	0.75	0.75 - 0.75	0	5	pCi/L	N	Erosion of natural deposits.
Gross Alpha excluding radon and uranium	2021	0.63	0.63 - 0.63	0	15	pCi/L	N	Erosion of natural deposits.

Synthetic organic contaminants including pesticides and herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCL	MCL	Units	Violation	Likely source of Contamination
Atrazine	2021	0.33	0 - 0.33	3	3	ppb	N	Runoff from herbicide used on row crops.
Stimazine	2021	1	0 - 1	4	4	ppb	N	Herbicide runoff.

Sampling Point Distribution C001001 P1

PWS ID: IL1635090

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
1332-21-4	Asbestos	100.2	7 *	0.2	< 0.2	m/L	03/29/21 00:00	05/23/21 00:00	491693

Reference Lab Tests

Semi-volatile Organic Chemicals

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed	EEA ID #
12674-11-2	Aroclor 1016	505	—	—	0.08	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
11104-28-2	Aroclor 1221	505	—	—	0.19	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
11141-16-5	Aroclor 1232	505	—	—	0.23	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
53469-21-9	Aroclor 1242	505	—	—	0.26	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
12672-29-6	Aroclor 1248	505	—	—	0.1	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
11097-69-1	Aroclor 1254	505	—	—	0.1	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
11096-82-5	Aroclor 1260	505	—	—	0.2	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
57-74-9	Chlordane	505	2 *	0.1	< 0.1	ug/L	04/21/21 11:32	04/21/21 23:11	4880477
8001-35-2	Toxaphene	505	3 *	1.0	< 1.0	ug/L	04/21/21 11:32	04/21/21 23:11	4880477

Radionuclides

Analyte ID #	Analyte	Method	Reg Limit	MDA 95%	MRL	Result	Units	Preparation Date	Analyzed	EEA ID #
—	Gross Alpha	7110 C	15 *	0.68	3.0	0.63 ± 0.67	pc/L	08/09/21 14:10	08/11/21 14:12	4972910
13982-63-3	Radium-226	7500-Ra B	—	0.16	1.0	0.36 ± 0.21	pc/L	08/07/21 10:00	08/09/21 14:28	4972911
15262-20-1	Radium-228	7500-Ra D	—	0.43	1.0	0.37 ± 0.43	pc/L	08/07/21 10:00	08/13/21 18:06	4972911
—	Combined Radium	calc.	5 *	0.43	1.0	0.75 ± 0.48	pc/L	08/07/21 10:00	08/13/21 18:06	4972911

There were no quality control failures.

Re: IL1635090, SLM WATER COMMISSION

Notice of PFAS Sample Results Below Minimum Reporting Levels

Dear Municipal/Water Supply Official(s):

The purpose of this letter is to notify you of the results of analyses for Per- and Polyfluoroalkyl Substance (PFAS) in finished water samples collected by the Illinois Environmental Protection Agency (Illinois EPA) from your community water supply (CWS) at the entry point to the distribution system.

The Illinois EPA's sample analysis included a total of 18 PFAS. These contaminants were not present in your CWS at concentrations greater than or equal to the minimum reporting levels. A copy of the laboratory report is enclosed for your review.

Additional information regarding PFAS, the statewide PFAS investigation network, and the impact to public health can be found on the Illinois EPA PFAS webpage:

[www2.illinois.gov/epa/topics/water-quality/pfas/Pages/pfas-statewide-investigation-network.aspx](http://www2.illinois.gov/epa/topics/water-quality/pfas/Pages/pfas-statewide-investigation-network.aspx)

Sampling Point: TP01

PWS ID: IL1635090

Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
335-67-1	Perfluorooctanoic acid (PFOA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
1769-23-1	Perfluorooctanesulfonic acid (PFOS) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
375-73-5	Perfluorobutanesulfonic acid (PFBS) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
375-85-9	Perfluorheptanoic acid (PFHpA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
355-46-4	Perfluorohexanesulfonic acid (PFHxS) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
375-95-1	Perfluorononanoic acid (PFNA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
335-76-2	Perfluorodecanoic acid (PFDA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
307-24-4	Perfluorohexanoic acid (PFHxA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
307-55-1	Perfluorododecanoic acid (PFDDoA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
72629-94-8	Perfluorotridecanoic acid (PFTriDA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
2058-94-8	Perfluoroundecanoic acid (PFUnA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
2991-50-6	N-ethyl Perfluorooctanesulfonamideacetic acid \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
2355-31-9	N-methyl Perfluorooctanesulfonamideacetic acid \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
13252-13-6	HFPO-DAGenX \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
919005-14-4	ADONA \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
756426-58-1	9CI-PF3ONS/F-538 Major \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
763051-92-9	11CI-PF3OJdS/F-538 Minor \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019
376-06-7	Perfluorotetradecanoic acid (PFTeDA) \$	537.1	--	2.0	< 2.0	ng/L	07/29/21 07:00	07/30/21 06:45	4962019

\$ The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	