Annual Drinking Water Quality Report

MITCHELLSVILLE PWD

IL1655200

Annual Water Quality Report for the period of January 1 to December 31, 2023

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 MITCHELLSVILLE PWD is Purchased Ground Water

For more information regarding this report contact:

Name Sonders Env. ~ Cari Sonders
Phone (618) 534.1879

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

Board Meetings-4:15 pm Location-125 Triple S. Rd Jan. 16, 2024 - Tues April 16, 2024 - Tues July 16, 2024 - Tues Oct. 15, 2024 - Tues

Source of Drinking Water

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, bonds, 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 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.

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 EPAs 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 Cryptosporadium and other microbial contaminants are available from the Safe prinking 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 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 Information

Source Water Name				
6000		Type of Water	Report Status	Location
CC01-MITCHELLSVILLE PWN MASTER	FF IL1515050 TP04	GW		
CC02-MITCHELLSVILLE PWN VASTER		5	-	West side of Righway 145 South at County Line (Pope
THE TENEDLES VILLER	FF 1655300 TP01	G₩		and Saline)
		34		Intersecting of Route 13 and Shawnee Hills Road

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 source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop source Water, Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Assessments, including, Importance of website at http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl.

Source of Water: MILLSTONE PWDTo determine Millstone PWD's susceptibility to groundwater contamination, a Well Site Survey, published in 1994 by the Illinois Source of water: Filhostone smoto determine will stone ran a susceptibility to gloundwater contemplation, a well ofte outvey, published in the filmost EPA, was reviewed. Based on information obtained in this document, one potential source of groundwater contamination is present that could pose a hazard to the groundwater pumped by the Milistone PWD community water supply wells. This site is a lime sludge lagoon located 50 feet from Well #5. Based on information provided by Millstone PWD's water supply officials, this lime sludge lagoon has changed its status (sludge removed) and the four wells listed in the above site data table have been properly abandoned. The community's source water is susceptible to SOC contamination from non-point sources related to agricultural land use. Also, as a result of monitoring conducted at the wells and entry point to the distribution system, the land-use activities, and a source water protection initiatives by the facility, the Millstone PWD's source water is not susceptible to VOC and IOC contamination. Furthermore, in source water protection initiatives by the latting, the milistone rwn a source water is not assemble to vot and rot concamination. Furthermore, in anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that the Milistone PWD's wells are not vulnerable to viral contamination. This determination is based on the evaluation of the following criteria considered during the Vulnerability Waiver Process: the community's wells are properly constructed with sound integrity and proper site conditions; all potential routes and senitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate a history of disease outbreak; and the sanitary survey of the water supply did not source water is adequately protected, manifesting sale and not indicate viral contamination threat. However, having stated this, the "[U.S.] EPA is proposing to require States to identify systems in karst, gravel, and fractured rock aguifer systems as sensitive and these systems must perform routine source water monitoring". Because the community's wells are open to an unconfined sand and gravel aquifer, the Illinois FPA evaluated the well hydraulics associated with the Millstone PWD's well field. The amount of overburden should provide an adequate degree of filtration to prevent the movement of pathogens into the wells. Source of Water. SALINE VALLEY CONSERVANCY DISTRICTTO determine Saline Valley's susceptibility to contamination, a Well Site Survey, published by the Illinois EPA in 1989, was reviewed. Based upon this survey, there are 7 potential sources of groundwater contamination that could pose a hazard to groundwater utilized by Saline Valley's wells. These include 2 wells, 1 above ground fuel storage tank, 1 below ground fuel storage tank, 1 warehouse, 1 waste disposal, and 1 grain elevator. The Peabody Coal Company (PCC) operated Eagle No. 2, an underground mine with a coal processing plant and refuse disposal areas on the surface. The refuse disposal areas are located east of Saline Valley wells. There is extensive groundwater contamination in the vicinity of the refuse disposal areas. Concentrations of chloride, iron, or satine variey werrs. There is excensive groundwater contamination in the vicinity of the relose disposal areas, concentrations of chieffus, incominganese, sulfate and total dissolved solids (TDS) exceed the 35 Illinois Administrative Code Part 620.410 Class I: Potable Resource Groundwater manganese, surface and cocar disserved series (100) exceed the 30 littled Administrative code rate 020.410 class 1: Polable Resource concentrations. PCC will be required to implement an adequate corrective action at the site to remediate groundwater contamination. information, the Illinois EPA has determined that the Saline Valley community water supply's source water is susceptible to contamination. As such, the Illinois EPA has provided 5-year recharge area calculations for the wells. The land use within the racharge area of the wells was analyzed as part of this

Lead and Copper

Definitions.

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

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements worch a water system must follow. # Sites Over Units Violation. Likely Source of Contamination (AL1 Percentile AŁ. Copper 08/24/2022 1.3 _.3 0.231C ppra 23 Erosion of natural deposits: Leaching from wood preservatives; Corrosion of household plumbing systems.

Water Quality Test Results

Def	in	tion	

Definitions:

Avg:

Level 1 Assessment:

Level 2 Assessment:

Maximum Contaminant Level or MCL:

Maximum residual disinfectant level or

Maximum residual disinfectant level goal or MRDLG:

na: mrem

ppb:

DDm:

Treatment Technique or TT:

The following tables contain scientific terms and measures, some of which may require explanation.

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) way total collform bacteria have been found in our water system

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

The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible

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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.

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. not applicable.

millirems per year (a measure of radiation absorbed by the body)

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

milligrams per liter or parts per million - or one ounce in 7.350 gallons of water.

A required process intended to reduce the level of a contaminant in drinking water.

Regulated Contaminants

Collection Date	Highest Level Detected	Parge of Levels Detected	MCLG	NCL	Cottons	Violation	Likely Source of Contemination
2023	1					-	
	4.6	1.4 - 1.7	MRDLG # 4	MRDL = 4	ppm	N	Water additive used to control micropes.
2023	16						
2003	.6	9.7 - 20	No goal for the total	60	ciqq	N	By product of drinking water disinfection
2023	F.77						
	2/	35 - 79	No goal for the total	80	ppb	N	By-product of drinking water disinfection
		2023 1.6 2023 16	Date Detected Detected 2023	Date Detected Detecte	Date Detected Detected NCLG NCL Detected NCLG NCL Detected NCLG NCL 2023 1.6 1.4 - 1.7 MADLS = 4 MRDL = 4 2023 16 9.7 - 20 No goal for the total S0 the total No goal for the total NCL	Date Detected Detected NCLG NCL Chire 2023	Date Detected Detected MCLG MCL State Violation 2023 1.6 1.4 - 1.7 MRDLG * 4 MRDL = 4 ppm N 2023 16 9.7 - 20 No goal for the total 50 ppb N 2023 57 35 - 79 No goal for the total

Violations Table

Consumer Confidence	Rule		
The Consumer Confidence the water delivered by t	Rule requires community was the systems.	er systems to p	repare and provide to their distomets aimual consumer confidence reports on the quality of
Violation Type			Violation Explanation
CCR REPORT	07/01/2023	07/21/2023	We failed to provide to you, our drinking water customers, an annual report that informs you about the quality of our drinking water and characterizes the risks from exposure to contaminants detected in our drinking water.

The Mitchellsville Water District failed to provide our customers a copy of the Consumer Confidence Report by the Illinois E.P.A. deadline. By doing so, we did not inform you of the quality of our drinking water by the required due date. We will take the necessary measures to assure that we meet all necessary and required notification procedures and deadlines from now on to maintain compliance with E.P.A. and to keep our customers informed and up to date.

Millstone PWD

Lead and Copper

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The concentration of a contaminant which if exceeded triggers treatment or other

bead and Copper	Date Sampled	MCLG	Action Level			Units	violation	to health. ALGs allow for a margin of water system must follow.
Copper	2023		(AU)	Percentile	AL			Likely Source of Contamination
	2.023	1.3	1.3	0.126	0	ppa	N	Erosion of natural deposits: Leaching fi
Lead 2023	2023	0	15	6.84				plumbing systems.
	The section			0.01	0	dqq	N	Corrosion of household plumbing systems, Brosion of natural deposits.

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Maximum residual disinfectant level or

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MRDL:

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.

Maximum residual disinfectant level goal or MRDIG:

not applicable

mrem:

millirems per year (a measure of radiation absorbed by the body)

: વધવુલ્

micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

Regulated Contaminants - Mills Hone Pwh 2

Collection Date	Detected	Range of Level Detected	s VCLG	MCL	Chis	Violation	Likely Source of Contamination
2023	1.9	1.4 - 2	MEDLG = 4	MRDL = 4	bòw	м	. Water additive used to control microbes.
2023	15	8.3 - 26	No goal for the total	60	dqq	н	By-product of drinking water disinfection.
2023	66	33.6 - 81	No goal for the total	BC	apb	N	By-product of drinking water disinfection.
Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	azinU	Violation	Likely Source of Contamination
07/19/2021	5.98	5 98 - 5 00					
	2.20	5.98 - 5.99	0	10	ppb	1 1	Erosion of natural deposits; Runoff from oichaids; Runoff from glass and electronics production wastes.
07/19/2021	0.0300						
	0.0197 0	.0197 - 0.0197	2	2	ppm	N D	discharge of drilling wastes; Discharge from materal refineries; Erosion of natural deposits
07/19/2021	0.44	0.44 - 0.44	4	4.0	çpm	N E	Crosion of natural deposits; Water additive
07/19/2021	23100	23100 - 23100			ppb	N E	ertilizer and aluminum factories. Crosion from naturally occuring deposits. Seed in water softener regeneration.
	2023 2023 2023 Collection Date 07/19/2021 07/19/2021	2023 1 9 2023 66 2023 66 Collection Highest Level Detected 07/19/2021 5.98 07/19/2021 0.0197 0 07/19/2021 0.44	2023 1.9 1.4 2 2023 15 8.3 - 16 2023 66 33.6 - 81 Collection Bighest Level Range of Levels Detected 07/19/2021 5.98 5.98 - 5.99 07/19/2021 0.0197 0.0197 - 0.0197 07/19/2021 0.44 0.44 - 0.44	2023 1.9 1.4 - 2 XEDLG = 4 2023 15 8.3 - 16 Ye goal for the total 2023 66 33.6 - 81 No goal for the total Collection Date Detected Detected Detected 07/19/2021 5.98 5.98 - 5.99 0 07/19/2021 0.0197 0.0197 - 0.0197 2 07/19/2021 0.44 0.44 - 0.44 4	2023 1 9	2023 1.9 1.4 = 2 MRDL = 4 MRDL = 4 ppm	2023 1 9

- SALINE VALLEY CONSERVANCY DISTRICT -

Coliform Bacteria

Maximum Contaminant Lev Goal	Contaminant Level 1 positive	Positive	Fecal Coliform or E. Coli Maximum Contaminant Level	Total No. of Positive E. Coli or Fecal Coliform Samples		Likely Source of Contamination
	menthly sample.				Įę.	Naturally present in the environment.

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Lead and Copper	Date Sampled	MCLG	Action Level	90th	H Sizes Co	ther requir	ements which a	water system must follow.
			(AL)	Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Capper	2023	1.3	1.3					
			1.3	0.17	0	Ppm		Erosion of natural deposits; Leaching wood preservatives; Corrosion of hous plumbing systems.

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Disinfectants and Disinfection By- Products	Collection Date	Highest Leve Detected	Range of Level	Is MCLG	MCT WCT	Units		Likely Source of Contamination
Chlorine	2023	2	1.75 - 2	MRDLG = 4				İ
				MRDDG = 4	MRDL = 4	ppm	N	Water additive used to control micro
Haloacetic Acids (HAA5)	2023	7	6.6 - 6.6	No goal for				
				the total	60	qáđ	N	By-product of drinking water disinfe
Total Trihalomethanes (TTBM)	2023	47	46.9 - 46.9	No goal for	0.5			
·				the total	80	dqq	N	By-product of drinking water disinfer
norganic Ontaminants	Collection	Highest Level	Range of Levels	MCLG				
- Temes	Date	Detected	Detected	MCLG	MCT	Units	Violation	Likely Source of Contamination
arium	2023	0.00509	0.00509 -					
			0.00509	2	2	ррп	N	Discharge of drilling wastes; Dischar
luoride	2023	0.63	0.63 - 0.63					metal refineries; Erosion of natural
			V.83 - V.83	4	4.0	ppm	N	Erosion of matural deposits; Water add
dium	2023	13500	13500 - 13500					which promotes strong teeth; Discharge fertilizer and aluminum factories.
			2200 - 13300			Бbш	N j	Prosion from naturally occurring deposition of water softener regeneration.