Annual Drinking Water Quality Report

NEW ATHENS

IL1631050

Annual Water Quality Report for the period of January 1 to December 31, $2016\,$

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 NEW ATHENS is Purchased Surface Water

For more information regarding this report contact:

Name Tyler Liefer

Phone 618-475-2144

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 notude:

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.

quality. This report is also available for review at the Village Hall, 905 Spotsylvania Street, New Athens, IL. This Annual Water Quality Report was posted online to inform New Athens water system customers about the water

Customers are informed about where to find the report all water bills have the internet address attached to it where the customers can find the report.

The Village of New Athens purchases water from Kaskaskia Water District. A copy of their detected contaminant tables are attached for review on pages 7, 8, and 9

7:30 P.M. on the first and third Monday of each month at Village hall If you have any questions contact Tyler Liefer (618)475-2144. The regular meeting of the board of trustees is held at

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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 Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

to 2 minutes before using water for drinking or with service lines and home plumbing. We cannot serious health problems, especially for pregnant or at http://www.epa.gov/safewater/lead. methods, and steps you can take to minimize exposure Information on lead in drinking water, testing lead exposure by flushing your tap for 30 seconds several hours, you can minimize the potential for control the variety of materials used in plumbing If present, elevated levels of lead can cause is available from the Safe Drinking Water Hotline cooking. If you are concerned about lead in your water, you may wish to have your water tested. orimarily from materials and components associated components. When your water has been sitting for romen and young children. Lead in drinking water is

CC 01-MASTER METER Source Water Name

FF IL1635110 TP01

Type of Water

WS

Report Status

In Use

IN OLD NA WTP-INT SPRING/JOHNSON

Location

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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 by City Hall or call our water operator at 618-475-2144. 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.

problems, hence, the reason f filtration, and disinfection. Source of Water: KASKASKIA WATER DISTRICTIllinois 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,

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.

	Copper	Lead and Copper Date Sampled
	2016	Date Sampled
	1.3	MCLG
	1.3	Action Level (AL)
	0.255	90th Percentile
	0	# Sites Over AL
	ppm	Units
	Ŋ	Violation
from wood preservatives; Corrosion of household plumbing systems.	Erosion of natural deposits; Leaching	Likely Source of Contamination

Water Quality Test Results

not applicable.	na:
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 or MRDLG:	Maximum residual disinfectant level goa or MRDLG:
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 or MRDL:
: 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 Contaminant Level Goal or MCLG:
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 or MCL:
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.	Level 2 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 1 Assessment:
Regulatory compliance with some MCLs are based on running annual average of monthly samples.	Avg:
The following tables contain scientific terms and measures, some of which may require explanation.	Definitions:

mrem:

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

Water Quality Test Results

: madd

Treatment Technique or TT:

A required process intended to reduce the level of a contaminant in drinking water. milligrams per liter or parts per million - or one ounce in 7,350 gallons of water. micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

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Total Trihalomethanes (TTHM)	Haloacetic Acids (HAA5)	Chlorine	Disinfectants and Disinfection By-Products
2016	2016	12/31/2016	Collection Date
60	3.5	1.9	Highest Level Detected
18.4 - 50	3.9 - 14.5	1.6 - 2	Highest Level Range of Levels Detected Detected
No goal for the total	No goal for the total	MRDLG = 4	s MCLG
80	60	MRDL = 4	MCT
qdd	dqq	mdd	Units
z	N	Z	Violatio
By-product of drinking water disinfection	By-product of drinking water disinfection	Water additive used to control microbes.	Violation Likely Source of Contamination

Water Quality Test Results

Definitions:

Level 1 Assessment:

Level 2 Assessment:

Maximum Contaminant Level or MCL:

Maximum Contaminant Level Goal or MCLG:

Maximum residual disinfectant level or MRDL:

Maximum residual disinfectant level na: goal or MRDLG:

mrem:

: ddd

: mdd

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 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 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.

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

The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a

The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDIGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

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.

Runoff from herbicide used on row crops.	Z	ppb	ω	ω	0 1	-	2010	
						,	2016	Atrazine
Likely Source of Contamination	Violation I	Units	MCL	MCLG	Range of Levels Detected	Highest Level F	Collection Date	contaminants including pesticides and herbicides
Erosion of natural deposits.	Z	pCi/L	15		1	H		radon and uranium
ELOSION ON NATURAL deposits.							04/14/2015	Gross alpha excluding
	z	pCi/L	(J)	0	0.46 - 0.46	0.46	04/14/2015	Combined Radium 226/228
Likely Source of Contamination	Violation	Units	MCL	MCLG	Range of Levels Detected	Highest Level Detected	Date	Contaminants
Erosion from naturally occuring deposits: Used in water softener regeneration.	z	mdd			20100	, c		Radioactive
Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.	N	mdd	Č	ć		30	2016	Sodium
aluminum factories.				10	1.35 - 1.35	1	2016	Nitrate [measured as
Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from	Z	mdd	4.0	4	0.00			
Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.		ילים ילים	1			D	2016	Fluoride
	4	3	v	2	0.0438 - 0.0438	0.0438	2016	Barium
Likely Source of Contamination	Violation	Units	MCT	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Inorganic Contaminants
By-product of drinking water disinfection.	Z	ppb	80	No goal for the total	52.7 - 63	90	9102	(TTHM)
By-product of drinking water disinfection.	N	ppb	60	No goal for the total	22 - 30.7	31	2016	(HAA5)
Water additive used to control microbes.	Z	mdd	MRDL = 4	MRDLG = 4	1 - 2.5	1.7	12/31/2016	
Likely Source of Contamination	Violation	Units	MCT	MCLG	Range of Levels Detected	Highest Level Detected	Collection Date	Disinfection By- Products Chloreric
								J

Regulated Contaminants

Soil runoff,	z	100%	0.3 NTU	Lowest monthly % meeting limit
				-
Soil runoff.	Z	0.26 NTU	1 NTU	Highest single measurement
Likely Source of Contamination	Violation	Level Detected	Limit (Treatment Level Detected Technique)	

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.