Source of Drinking Water

The sources of drinking water (both tap water and bottled) include rivers, lakes, streams, ponds, reservoirs, springs, and groundwater 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 pickup substances resulting from the presence of animals or from human activity.

Drinking warer, including bottled warer, 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.

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.

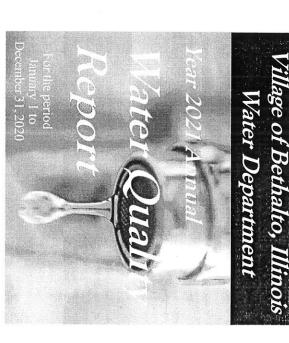
Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff and residential uses. Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

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

Village of Bethalto Water Dept. 101 South Prairie Bethalto, IL 62010



our valued customers to be informed about their water quality. If regularly scheduled water board meetings which are held the first treatment plant operator, Jim Williams at 259-5941. We want how it compares to standards set by regulatory agencies. We are details about where your water comes from, what it contains, and any other water quality standard in the previous year. This repor sateguards its groundwater supply, and we are able to report that Monday of each month at 7:00PM. you would like to learn more, please feel free to attend any of our report or concerning your water system, please contact our customers are our best allies. If you have any questions about this committed to providing you with information because informed summarizes the quality of water we provided last year, including the department had no violation of a contaminant level or of state drinking water health standards. Our system vigilantly This year, as in years past, your tap water met all USEPA and

To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility of 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.

The treatment process consists of prechlorination and aeration to oxidize the Iron and the addition of Sodium Permanganate to oxidize the manganese. Pressure filtration and ion exchange softening to remove the iron, manganese and hardness in the water. We then add chlorine for disinfection, fluoridine for dental development and phosphate for corrosion control.

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

Lead and Copper

Action Level Goal (AGL): The level of contaminant in drinking water below which there in no known or expected risk health. ALC's allow for a margin of safety, Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but 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 and 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.gove/safewater/lead 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

Lead & Copper	Date Sampled	MCLG	Action Level (AL)	90th #Sites Percentile Over AL	# Sites Over AL	Units	Violation	Likely Source Of Contaminant
Cupper	2020	1.3	1.3	0.57	0	ppm	No	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lend	2020	0	15	1.1	0	ppb	No.	Corrosion of household plumbing systems; Erosion of natural deposits.
W. C T D 1	The second secon							

Water Quality Test Kesults

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

Contaminant Level Goal as feasible using the best available treatment technology. Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the Maxmium

health. MCLG's allow for a margin of safety. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to

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

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

Na: not applicable

Maximum Residual Disinfectant Level (MRDL): The highest level of disinfectant allowed in drinking water. Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

health. MRDLG's allow for a margin of safety. Maximum Residual Disinfectant Level (MRDLG): The level of disinfectant in drinking water below which there is no known or expected risk to

Regulated Contaminants

	_	J		1		1			1	7		1/1		7.1		1		
	Rudioactive Contaminants		Sodium	Selenium	Nitrate (Measured as Nitrogen)	Manganese	Iron	Fluoride	Barium	Arsenie	Inorganic Contaminants	iot all sample results may have been used	Total Tribalomethanes (TTHM)	ot all sample results may have been used	Haloncetic Acids (HAA5)	Chlorine	Disinfectants & Disinfection By-Products	C
- 1999	Collection Date		10/23/2018	10/23/2018	2020	10/23/2018	10/23/2018	10/23/2018	10/23/2018	10/23/2018	Collection Date	d for calculating the High	2020	d for calculating the High	2020	12/31/2020	Collection Date	
	Highest Level Detected		200	3.3	1	31	0.016	0.563	0.019	1.4	Highest Level Detected	iest Level Detecte	27	est Level Detecter	6	0.9	Highest Level Detected	
	Range of Levels Detected		200 - 200	3.3 - 3.3	1.3 - 1.3	31 - 31	0.016 - 0.016	0.563 - 0.563	0.019 - 0.019	1.4 - 1.4	Range of Levels Detected	d because some resu	10.77-26.9	d because some resu	3.89 - 6	0.8 - 1	Range of Levels Detected	
	MCLG			50	10	150		4	2	0	MCLG	lts may be pa	No goal for the total	ks may be pa	No goal for the total	MRDLG=4	мсьс	
	MCL			50	10	150	1.0	4.0	2	10	MCL	irt of an eva	80	rt of an eva	50	MRDL=4	MCL	
	Units		ppm	ppb	mdd	qdd	ppm	ppm	mdd	qdd	Units	luation to dete	ppò	luation to dete	ppb	ppm	Units	
	Violation		No	No	*	No.	š	%	No.	No.	Violation	rmine wher	X ₀	rmine wher	Vo	X ₆	Violation	
	Likely Source Of Contaminant		Erosion of naturally occurring deposits: Used in water softener regeneration	Discharge from petroleum and metal refine Erosion of natural deposits; Discharge from mines	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits	Not currently regulated by USEPA, but state regulates. Erosion of natural deposits	Not currently regulated by USEPA, but state regulates. Erosion of natural deposits.	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes.	Likely Source Of Contuminant	No all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in future	By-product of drinking water disinfection	Not all sample rosults may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in fetters.	By-product of drinking water disinfection	Water additive used to control microbes	Likely Source Of Contaminant	

Source Water Assessment Availability

for your convenience. When available, a Source Water Assessment summary is included below

of concern. and a Source Water Protection Plan prepared by the Village of Bethalto and published by the by the Leaking Underground Storage Tank and Remedial Project Management Sections of utilized by the Bethalto community water supply wells. Furthermore, information provided Illinois Rural Water Association, 27 potential sources could pose a hazard to groundwater Illinois EPA indicated several additional sites with on-going remediations that may be Based on information obtained in a Well Site Survey, published in 1991 by the Illinois EPA

Based upon the information presented above, the Illinois EPA has determined that the Bethalto Community Water Supply's source water has a high susceptibility to VOC Supply's source water has a low susceptibility to IOC and SOC contamination to the distribution system, the land use activities and source water protection initiatives (refer to the following section of this report) by the village, Bethalto's Community Water contamination. However, as a result of monitoring conducted at the wells and entry point

Furthermore, in anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that Bethalto's community water supply wells have a low susceptibility to viral did not indicate a viral contamination threat. However, having stated this, the "[U.S.] EPA data did not indicate a history of disease outbreak; and the sanitary survey of the water supply defects have been mitigated such that the source water is adequately protected; monitoring constructed with sound integrity and proper site conditions; all potential routes and sanitary criteria during the Vulnerability Waiver Process: the community's wells are properly contamination. Illinois EPA evaluated the well hydraulics associated with Bethalto's well field Because the community's wells are constructed in an unconfined sand and gravel aquifer, the systems as sensitive and these systems must perform routine source water monitoring is proposing to require States to identify systems in karst, gravel and fractured rock aquifer This determination is based upon the completed evaluation of the following

contributing a significant quantity of groundwater to the screened interval. This should provide an adequate degree of filtration to prevent the movement of pathogens into the wells. feet deep with the last 20 feet open to the aquifer, above the portion of the aquifer Wells #6 thru #12 have a significant amount of overburden, the wells are approximately 90 Water Sample Results are available upon request for Shallow Wells #6 thru #12 Bethalto's wells. These minimum protection zones are regulated by the Illinois EPA. he Illinois Environmental Protection Act provides minimum protection zones of 400 feet for

source prohibitions up to 1,000 feet from their wells. Act and allow county and municipal officials the opportunity to provide additional potential In addition, the village enacted a "maximum setback zone" which became effective on January 17, 1992. These ordinances are authorized by the Illinois Environmental Protection

community. Third, cross connection control program to ensure that it remains current and viable. Cross regulatory proposal to further protect their source water area. or in the distribution system may negate all source water protection initiatives provided by the connections to either the water treatment plant (for example, at bulk water loading stations) without safe and adequate water. Second, the water supply staff is encouraged to review their means to ensure that, through preparedness, a community will minimize their risk of being their contingency planning documents. Contingency planning documents are a primary that three addition activities be considered. First, the water supply staff may wish to revisit To further minimize the risk to the village's groundwater supply, the Illinois EPA recommends the village is encouraged to consider overlay zoning a recharge area

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

Gross Alpha excluding Rudon & Uranium

5/21/2019

3.36

3.36 - 3.36

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15

PCI/L

No.

Erosion of natural deposits