Sebree Water Department Water Quality Report 2018

Water System ID: KY1170388Manager: Emery ThomasCCR Contact: Emery ThomasPhone: 270-835-7501Mailing Address: P.O. Box 245, Sebree, KY 42455Meeting Location and Time: Sebree City Hall, 36 S. Spring Street, First Monday each month at 5:00 PM

Source Information:

Sebree Water Department purchases water treated by Henderson Water Utility at the South Water Treatment Plant. The water is surface water from the Green River. A source water assessment for this system has been completed and is contained in the Henderson County Water Supply Plan. An analysis of the susceptibility of Henderson's Green River water supply to contamination indicates that this susceptibility is generally moderate. However, there are areas of high concern. Potential sources of concern include bridges, waste generators, transporters, landfills, railroad, row crop land, urban and recreational grass coverage, and sewer lines. All of these are rated as high in susceptibility because of the contaminant type, proximity to the intakes, and chance of release. The complete plan is available for inspection at Henderson Water Utility or the Green River Area Development District office in Owensboro, KY.

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 may be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline (800-426-4791).

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 may 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, (sewage plants, septic systems, livestock operations, or wildlife). Inorganic contaminants, such as salts and metals, (naturally occurring or from stormwater runoff, wastewater discharges, oil and gas production, mining, or farming). Pesticides and herbicides, (stormwater runoff, agriculture or residential uses). Organic chemical contaminants, including synthetic and volatile organic chemicals, (by-products of industrial processes and petroleum production, or from gas stations, stormwater runoff, or septic systems). Radioactive contaminants, (naturally occurring or from oil and gas production or mining activities). In order to ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water to 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).

Information About 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 materials and components associated with service lines and home plumbing. Your local public water system is responsible for providing high quality drinking water, but 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.

Some or all of these definitions may be found in this report:

Maximum Contaminant Level (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 (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 (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 (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.

Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.

Not Applicable (N/A) - does not apply.

Parts per million (ppm) - or milligrams per liter, (mg/l). One part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) - or micrograms per liter, (µg/L). One part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

Parts per trillion (ppt) - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny in \$10,000,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

Millirems per year (mrem/yr) - measure of radiation absorbed by the body.

Million Fibers per Liter (MFL) - a measure of the presence of asbestos fibers that are longer than 10 micrometers.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity has no health effects. However, turbidity can provide a medium for microbial growth. Turbidity is monitored because it is a good indicator of the effectiveness of the filtration system.

Variances & Exemptions (V&E) - State or EPA permission not to meet an MCL or a treatment technique under certain conditions.

Action Level (AL) - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system shall follow.

Treatment Technique (TT) - a required process intended to reduce the level of a contaminant in drinking water.

Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien. To request a paper copy call (270) 835-7501. The data presented in this report are from the most recent testing done in accordance with administrative regulations in 401 KAR Chapter 8. As authorized and approved by EPA, the State has reduced monitoring requirements for certain contaminants to less often than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data in this table, though representative, may be more than one year old. Copies of this report are available upon request by contacting our office during business hours.

To understand the possible health effects described for many regulated contaminants, a person would have to drink 2 liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

	Allowable Levels		Highest Single Measurement		Lowest	Violation		
					Monthly %		Likely Source of Turbidity	
Turbidity (NTU) TT	No more than 1 NTU*							
* Representative samples	Less than 0.3 NTU in		0.134		100	No		Soil runoff
of filtered water	95% of monthly samples							
Regulated Contamina	nt Test R	esults - Hen	derson					
Contaminant			Report	F	Range		Violation	Likely Source of
[code] (units)	MCL	MCLG	Level	of Detection		Sample		Contamination
Combined radium	5	0	1.1	1.1 t	to 1.1	2014	No	En sien stanten 14 maaite
(pCi/L)								Erosion of natural deposits
Barium								
[1010] (ppm)	2	2	0.027	0.027 t	o 0.027	2018	No	Drilling wastes; metal refineries; erosion of natural deposits
Fluoride								Water additive which promotes
[1025] (ppm)	4	4	0.63	0.63 t	to 0.63	2018	No	strong teeth
Nitrate								Fertilizer runoff; leaching from
[1040] (ppm)	10	10	0.05	0.05 t	0.05	2018	No	septic tanks, sewage; erosion of natural deposits
Total Organic Carbon (ppm)			1.99					
(measured as ppm, but	TT*	N/A	(lowest	1.13 t	.o 2.94	2018	No	Naturally present in environment.
reported as a ratio)			average)	(mont	hly ratios)			
*Monthly ratio is the % TOC	removal achi	eved to the % TO	DC removal re	equired. Ann	ual average m	st be 1.00 or gre	ater for com	pliance.
Chlorite	1	0.8	0.58	0.015 t	o 0.65	2018		Byproduct of drinking water
(ppm)			(average)					disinfection.
Chlorine dioxide (ppb)	MRDL	MRDLG						Water additive used to control
	= 800	= 800	160	0 t	io 160	2018	No	microbes.

Regulated Contaminant Test Results Sebree Water Department										
Contaminant			Report	Range		Date of	Violation	Likely Source of		
[code] (units)	MCL	MCLG	Level	of Detection			Sample		Contamination	
Copper [1022] (ppm)	AL=		0.162							
sites exceeding action level	1.3	1.3	(90 th	0.0079	to	0.242	Jun-16	No	Corrosion of household plumbing systems	
0			percentile)						5 J S Verinds	
Lead [1030] (ppb)	AL=		0							
sites exceeding action level	15	0	(90 th	0	to	2	Jun-16	No	Corrosion of household plumbing systems	
0			percentile)						- ,	
Chlorine	MRDL	MRDLG	1.36						Water additive used to control	
(ppm)	= 4	= 4	(highest	0.75	to	1.91	2018	No	microbes.	
			average)							
HAA (ppb) (Stage 2)			53						Denne her et al fali a line anne a	
[Haloacetic acids]	60	N/A	(high site	19	to	56	2018	No	Byproduct of drinking water disinfection	
			average)	(range c	of indiv	vidual sites)				
TTHM (ppb) (Stage 2)			51							
[total trihalomethanes]	80	N/A	(high site	19	to	68	2018	No	Byproduct of drinking water disinfection.	
			average)	(range of individual sites)						