Grayson U	tilities Commission	KY0220164				
 Water Quality	Report for year 2014	Manager:	Gerald W. Haney			
671 S		Phone:	606-474-7569			
Grays						
Meetings:	William J. Lewis Maintenance E	Building	CCR Contact:	same as above		
Meeting Dates and Time:	Last Friday of the Month	12:00 PM	Phone:			

This report is designed to inform the public about the quality of water and services provided on a daily basis. Our commitment is to provide our customers with a safe, clean, and reliable supply of drinking water. We want to assure that we will continue to monitor, improve, and protect the water system and deliver a high quality product. Water is the most indispensable product in every home

and we ask everyone to be conservative and help us in our efforts to protect the water source and the water system. The Grayson Utility Commission withdraws raw water from the Little Sandy River which is a surface water source located in Carter County. An analysis of the susceptibility of the Commission's

water supply to contamination indicates that this susceptibility is generally moderate. Areas of high concern within the first protection zone of the intake consist of Bridges and Culverts. In and of

themselves, bridges do not represent a danger to the environment. It is the potential for chemical spill resulting from accidents that earn them a high susceptibility ranking. Agricultural activity in

this watershed is negligible and, therefore, the use of pesticides and herbicides and the danger of runoff contaminated thereby is greatly reduced. The threat posed by major roadways in the

protection area in the event of accidental release of contaminants, though it exists, is moderate. The overall Susceptibility Ranking for this water source is moderate.

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).

Some or all of these definitions may be found in this report:	Information About Lead:
Maximum Contaminant Level (MCL) - the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the	If present, elevated levels of lead can cause
MCLGs as feasible using the best available treatment technology.	serious health problems, especially for pregnant
Maximum Contaminant Level Goal (MCLG) - the level of a contaminant in drinking water below which there is no known or expected	women and young children. Lead in drinking water
risk to health. MCLGs allow for a margin of safety.	is primarily from materials and components
Maximum Residual Disinfectant Level (MRDL) - the highest level of a disinfectant allowed in drinking water. There is convincing	associated with service lines and home plumbing.
evidence that addition of a disinfectant is necessary for control of microbial contaminants.	Your local public water system is responsible for
Maximum Residual Disinfectant Level Goal (MRDLG) - the level of a drinking water disinfectant below which there is no known or	
	control the variety of materials used in plumbing
expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.	components. When your water has been sitting for
Below Detection Levels (BDL) - laboratory analysis indicates that the contaminant is not present.	several hours, you can minimize the potential for
Not Applicable (N/A) - does not apply.	lead exposure by flushing your tap for 30 seconds
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	to 2 minutes before using water for drinking or
\$10,000.	cooking. If you are concerned about lead in your
Parts per hillion (nph) - or micrograms per liter (unl). One part per hillion corresponds to one minute in 2,000 years or a single permit	water, you may wish to have your water tested.
in \$10,000,000.	mornation on lead in drinking water, testing
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.	methods, and steps you can take to minimize
	exposure is available from the Safe Drinking Water
Parts per quadrillion (ppq) - one part per quadrillion corresponds to one minute in 2,000,000,000 years or one penny ir \$10,000,000,000,000.	Hotline or at http://www.epa.gov/safewater/lead.

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 (Esp Spanish (Español) Este informe contiene información muy importante sobre la calidad de su agua beber. Tradúzcalo o hable con alguien que lo entienda bien.



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. Unless otherwise noted, the report level is the highest level detected.

	Allowable Levels		Highest Single Measurement			Lowest	Violation		
					N	fonthly %		Likely Source	
Turbidity (NTU) TT	No more that	in 1 NTU*							
* Representative samples	les Less than 0.3 NTU in 95% of monthly samples		0.407			99	No	Soil runoff	
of filtered water									
<b>Regulated Contamina</b>	nt Test R	esults							
Contaminant			Report		Rang	je	Date of	Violation	Likely Source of
[code] (units)	MCL	MCLG	Level	0	f Deteo	tion	Sample		Contamination
<b>Radioactive Contamin</b>	ants								
Alpha emitters	15	0	0.60	0.6	to	0.6	Jul-08	No	Erosion of notural deposite
[4000] (pCi/L)								No	Erosion of natural deposits
Inorganic Contamina	nts								
Copper [1022] (ppm)	AL =		0.13						
sites exceeding action level	1.3	1.3	(90 <sup>th</sup>	0	to	0.28	Aug-12	No	Corrosion of household plumbing
0	100,000		percentile)			1.0000		0.000	systems
Fluoride									
[1025] (ppm)	4	4	0.95	0.8	to	1.22	Oct-14	No	Water additive which promotes
								12.112.1	strong teeth
Lead [1030] (ppb)	AL =		3						
sites exceeding action level	15	0	(90 <sup>th</sup>	0	to	6	Aug-12	No	Corrosion of household plumbing
0		1.37	percentile)	9070	150%				systems
Nitrate			percentite						
[1040] (ppm)	10	10	0.270	0.27	to	0.27	Mar-14	No	Runoff from fertilizer use;
[ioio] (ppin)		10	0.270	0.21		0.27	14100-14	110	leaching from septic tanks, sewage; erosion of natural deposi
Disinfectants/Disinfec	tion Bynr	oducts and	Precursors						sewage, crosion of natural deposi
Total Organic Carbon (ppm)		Juneto unu	1.24					1	1
(measured as ppm, but	TT*	N/A	(lowest	1.02	to	1.79	N/A	No	Naturally present in environment
reported as a ratio)	201		average)		onthly	1.000.000		110	reading present in environment
	removal ach	ieved to the %					the monthly ra	tion must be	1.00 or greater for compliance.
Chlorine	MRDL	MRDLG	1.29	required.	Annua	average of	the monuny ra	luos musi de	1.00 of greater for compliance.
(ppm)	= 4	= 4	(highest	0.36	to	1.95	N/A	No	Water additive used to control microbes.
(PP)			average)	0.50	10	1.25			
HAA (ppb)			24						
[Haloacetic acids]	60	N/A	(system	3	to	53	N/A	No	Byproduct of drinking water
(Individual Sites)			average)			tem sites)	n/A		disinfection
TTHM (ppb)			37	(range	JI aya	tern sites)			
[total trihalomethanes]	80	N/A	(system	3	to	90	N/A	No	Byproduct of drinking water
(Individual Sites)		1.074	101000000000000000000000000000000000000	1999		12,627.11	MA	INU	disinfection.
(marridual Sites)	L		average)	(range o	i malv	idual sites)			

The 2013 Grayson Utilities Commission Annual Water Quality Report was received by the Kentucky Division of Water after the July 1st deadline, resulting in a violation. However, there were no adverse public health and safety concerns resulting from this violation.