Å	Muhlenberg County Water District #3	KY0890304			
	Water Quality Report for year 2010	Manager:	Chester Lear		
	P. O. Box 67	Phone:	270-525-6333		
	Bremen, Ky. 42325				
	Meetings: 4789 Main Street	CCR Contact:	Cindy Darr		

7:00 p.m.

Phone:

270-525-6333

Water - Essential for Life

that a water system shall follow.

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.

#3rd Monday of each Month

Meeting Dates and Time:

Muhlenberg Co. Water District.#3 purchases water from Central City Municipal Water and Sewer, who draws surface water from the Green River. The final source water assessment has been completed and is contained in the Muhlenberg County Water Supply Plan prepared by the Pennyrile Area Development District. The area upstream contains residential, agricultural, and mining activities. The source water assessment identified 246 potential sources of contamination with 208 of those sites identified as moderate risk. However, several sites were identified as high risk. There are twenty-five oil/gas wells and ten landfills which present the possibility of contamination from leaching, siltation and illegal dumping. There are ten underground/aboveground storage tank facilities and three auto repar facilities which have the potential for contamination due to leaking petroleum containers and spills. Other potential concerns within the watershed are roads, bridges, highways which pose a risk due to the possibility of hazardous materials entering the water supply from traffic accidents, spills and illegal dumping. Copies of the plan are available at the Central City Water Department.

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 If present, elevated levels of lead can cause serious health problems, especially 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 for providing high quality drinking water, 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 \$10,000,000,000,000. Picocuries per liter (pCi/L) - a measure of the radioactivity in water. Millirems per year (mrem/yr) - measure of radiation absorbed by the body. http://www.epa.gov/safewater/lead. 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

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.

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 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 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.

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otherwise noted, the report le	evel is the hi	ghest level det		.							
	Allowable		Lce	Highest Single Measurement		Lowest	Violation				
	Levels		Source			Monthly %		Likely Source of Turbidity			
Turbidity (NTU) TT No more than 1 NTU*		A=									
* Representative samples	Less than 0.3 NTU in		B=	0.098			100	No	Soil runoff		
of filtered water	95% monthly samples		C=								
Regulated Contamina				.							
Contaminant	T	Γ	8	Report	Γ	Ra	nge	Date of	Violation	Likely Source of	
[code] (units) MCL MCLG		Source	Level of Det		0	Sample		Contamination			
Microbiological Cont			1		· · · · ·					Teenminnin	
Total Coliform Bacteria		0	T	1	<u> </u>	N/A		Nov	No	Naturally present in the	
# or % positive samples	~	Ů			1971			1107	1.0	environment	
Radioactive Contami	nants								1	environment	
Alpha emitters	15	0	A=	1	1	to	1	Mar-08	No	Erosion of natural deposits	
[4000] (pCi/L)	1 15	Ů	B=				1	Ivial-00	110		
Combined radium	5	0	A=	1	1	to to	1	Mar-08	No	Erosion of natural deposits	
	5	0	B=	1	1		1	iviai-06	NU	Liosion of natural deposits	
(pCi/L) Inorganic Contamina	nto		D=	L	l	to			L	L	
	I		T .						r	Drilling wastes; metal refineries;	
Barium			A=			to	1	<u> </u>	N	erosion of natural deposits	
[1010] (ppm)	2	2	B=	0.024	0.024	to	0.024	Oct-10	No		
Copper [1022] (ppm)	AL =			0.013						Corrosion of household plumbing systems	
sites exceeding action level	1.3	1.3		(90 th	0.002	to	0.054	Jul-09	No		
Fluoride			A=			to				Water additive which promotes strong teeth	
[1025] (ppm)	4	4	B=	1.04	0.762	to	1.4	Aug-10	No		
Lead [1030] (ppb)	AL =			2						Corrosion of household plumbing	
sites exceeding action level	15	0		(90 th	2	to	2	Jul-10	No	systems	
0		· · ·		percentile)							
Nitrate			A=			to				Runoff from fertilizer use; leaching	
[1040] (ppm)	10	10	B=	1.46	1.46	to	1.46	Jan-10	No	from septic tanks, sewage; erosion of natural deposits	
			C=			to				or natural deposits	
Synthetic Organic Co	ntamina	nts includi	ng P	esticides a	and Her	bici	des				
Atrazine			A=			to				Runoff from herbicide used on row	
[2050] (ppb)	3	3	B=	0.3	0.3	to	0.3	May-10	No	crops	
Disinfectants/Disinfec	tion Byp	roducts an	d Pr	ecursors							
Total Organic Carbon (ppm)			A=	1.33		to				Naturally present in environment.	
(measured as ppm,but	TT*	N/A	B=	(lowest	1	to	1.89	N/A	No		
reported as a ratio)			C=	average)	(mon	thly r	atios)				
*Monthly ratio is the % TOC	removal acl	nieved to the 9	% TO(C removal re	quired. An	nual a	average of the	monthly ratios	must be 1.0	0 or greater for compliance.	
Chlorine	MRDL	MRDLG		1.63				-		Water additive used to control	
(ppm)	= 4	= 4		(highest	0.70	to	1.91	N/A	No	microbes.	
				average)							
HAA (ppb) (all sites)				46						Byproduct of drinking water	
[Haloacetic acids]	60	N/A		(system	9	to	102	N/A	No	disinfection	
				average)	(range	of sy	stem sites)				
TTHM (ppb) (all sites)				49						Byproduct of drinking water	
[total trihalomethanes]	80	N/A		(system	13	to	111	N/A	No	disinfection	
				average)							
TTHM (ppb)				64.25		-				Byproduct of drinking water	
[total trihalomethanes]	80	N/A		(locational	13	to	111	N/A	No	disinfection.	
(Individual Sites)				average)	10						
EDA has not established driv			L]	0.1				la and the make	L	L	

EPA has not established drinking water standards for unregulated contaminants. There are no MCL's and therefore no violations if found.

Secondary contaminants do not have a direct impact on the health of consumers and are not required in the Consumer Confidence Report. They are being included to provide addition information about the quality of the water.

Secondary Contaminant	Maximum Allowable	Report		Date of		
oooonaan y oomaaninnam	Level	Level	o	Detection		Sample
Aluminum	0.05 to 0.2 mg/l	0.22	0.22	to	0.22	Aug-10
Chloride	250 mg/l	19.3	19.3	to	19.3	Aug-10
Color	15 color units	1	1	to	1	Aug-10
Copper	1.0 mg/l	0.002	0.002	to	0.002	Aug-10
Corrosivity	Noncorrosive	0.31		N/A	4	Aug-10
Fluoride	2.0 mg/l	0.8	0.8	to	0.8	Aug-10
Foaming Agents	0.5 mg/l	0.1	0.1	to	0.1	Aug-10
Iron	0.3 mg/l	0.02	0.02	to	0.02	Aug-10
Manganese	0.05 mg/l	0.002	0.002	to	0.002	Aug-10
Odor	B threshold odor numbe	1	1	to	1	Aug-10
pН	6.5 to 8.5	8	8	to	8	Aug-10
Silver	0.1 mg/l	0.002	0.002	to	0.002	Aug-10
Sulfate	250 mg/l	57	57	to	57	Aug-10
Total Dissolved Solids	500 mg/l	256	256	to	256	Aug-10
Zinc	5 mg/l	0.002	0.002	to	0.002	Aug-10
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Sodium	optimum level =20 mg/L	11.8	6.88	to	11.8	Aug-10