

# Bacteriological Sampling

System: Columbia/Adair Water

PWSID: KY-0011016

System Population Served

Inform the Division of Water of all relevant population changes.

Samples Required per Month

NOTE: If the system population served increases from one month to another and the number of required samples increase, a Public Notice indicator (PN) may appear for the previous months. However, public notice will not be required if the number of samples collected during the previous months were appropriate for the system population served during that time.

Total samples for month must match monthly disinfectant samples for year 2.

## Non-Compliance Values

2008	Routine Samples (enter the number of samples collected)	Repeat Samples	Total Coliform Positive (routine & repeat)	Fecal Coliform or E.coli (routine & repeat)	Less Than 40 Monthly Samples (no more than 1 per month)	40 or more Monthly Samples (no more than 5% each month)	Total for Month
Jan	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Feb	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Mar	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Apr	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
May	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Jun	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Jul	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Aug	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Sep	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Oct	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Nov	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
Dec	<input type="text" value="2"/> PN	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="2"/>
If a routine sample is total or fecal coliform positive then three repeat samples are required. For each repeat sample that is also positive an additional three repeat samples will be required.			CCR Max Values	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0.00"/>	
			Month Max Occurred	<input type="text"/>	<input type="text"/>	<input type="text"/>	

# Total Organic Carbon Compliance Worksheet

System: Columbia/Adair Water

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Required Removal Percent of TOC for water systems using surface water or groundwater under the direct influence of surface water.  Systems practicing softening must meet the removal requirements in the last column.	Source Water Total Organic Carbon mg/L	Source Water Alkalinity (mg/L as CaCO <sub>3</sub> )			
		0-60 mg/L	>60-120 mg/L	>120 mg/L	
		Percent Removal Required			
		>2.0 - 4.0	35	25	15
		>4.0 - 8.0	45	35	25
	>8.0	50	40	30	
(systems unable to meet these requirements may use alternate TOC removal set by DOW)					

Instructions:

Manual entries must be made in all of the blue colored cells for years:

2007 2008

Ratio options:

Any month that treated or source TOC <2.0 or SUVA is <2.0 a value of 1.0 may be assigned.

Source TOC (mg/L)	Treated TOC (mg/L)	Actual TOC Removed (mg/L)	Actual TOC Removed (%)	Source Alkalinity (mg/L)	Required Removal (%)	Calculated Ratio	Calculated or Assigned Ratio
2007 Jan.							
2007 Feb.							
Mar.							
April							
2007 May							
June							
July							
2007 Aug.							
Sept.							
Oct.							
2007 Nov.							
Dec.							

Annual Average

4th Qtr

The running annual average, calculated quarterly, is below 1.00. Contact Division of Water immediately. If a violation occurs notify consumers within 30 days. Refer to template 2-3TOC.

2008 Jan.	2.62	1.56	1.06	40.46	46	35	1.16	1.16
2008 Feb.	2.96	1.24	1.72	58.11	43	35	1.66	1.66
Mar.	3.41	1.39	2.02	59.24	36	35	1.69	1.69
April	2.07	0.87	1.20	57.97	41	35	1.66	1.66
2008 May	2.86	1.67	1.19	41.61	39	35	1.19	1.19
June	2.57	1.46	1.11	43.19	44	35	1.23	1.23
July	2.83	2.19	0.64	22.61	46	35	0.65	1.00
2008 Aug.	2.85	1.99	0.86	30.18	48	35	0.86	1.00
Sept.	3.17	1.90	1.27	40.06	51	35	1.14	1.14
Oct.	2.96	1.46	1.50	50.68	53	35	1.45	1.45
2008 Nov.	2.14	0.91	1.23	57.48	57	35	1.64	1.64
Dec.	2.36	1.31	1.05	44.49	54	35	1.27	1.27

1st Qtr 0.37 PN

2nd Qtr 0.71 PN

3rd Qtr 0.97 PN

4th Qtr 1.34

Report in CCR	Lowest Running Annual Average:	0.37		
	Range of Monthly Ratios:	1.00	to	1.69

# Total Trihalomethanes (TTHM)

Most water systems utilize only four sample sites. The following table can accommodate up to twenty sample sites.

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## Compliance Reporting

Even though the lab may be forwarding the analysis report directly to the state, it is the responsibility of the water system to ensure that the information is received by the state on time.

Date	2007				2008			
	1st qtr	2nd qtr	3rd qtr	4th qtr	1st qtr	2nd qtr	3rd qtr	4th qtr
Site Code	readings from lab reports in mg/L (ppm)							
105					0.044	0.107	0.085	0.029
017					0.012	0.077	0.049	0.015
010					0.013	0.073	0.059	0.019
014					0.027	0.074	0.052	0.018

Quarterly

Average  
(ppm)

				0.024	0.083	0.061	0.020
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Running Annual Average

0.024	0.053	0.056	0.047
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For CCR Reporting

Highest Running Annual Average  (ppb)

Range

<input type="text" value="12"/>	to	<input type="text" value="107"/>
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Kentucky Rural Water Association

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### Radioactive Contaminants

Contaminant	unit	MCL (pCi/L)	2008								Most Recent Results								MCL Exceeded	CCR Data			
			Analysis Results for Current Year								2008				2004 to 2007					Avg	Min	Max	Date
			Result	Date	Result	Date	Result	Date	Result	Date	Min	Max	Date	Avg	Min	Max	Date						
Beta photon emitters	mrem/yr	4																					
Alpha emitters*	pCi/L	15	0.4	Sep-08						0.4	0.4	Sep-08						0.40	0.4	0.4	Sep-08		
Combined radium**	pCi/L	5																					
Uranium	µg/L	30																					

\* Alpha emitters may be reported as "Gross Alpha" by some labs.

\*\* Combined radium refers to radium 226 and/or radium 228.

**The Kentucky Division of Water currently does not have primacy for radionuclides. EPA has retained primacy. All radionuclide results and documentation must be sent to EPA. This page may be modified in the near future to address any regulatory modifications.**

#### Confirmation Samples:

If a confirmation sample is required the original analysis result and the confirmation sample analysis result must be averaged. Then replace the original with the average result in the appropriate area above.

Contaminant Name	original sample		confirmation sample		average
	Result	Date	Result	Date	
gross alpha			0.2	12/4/2008	0.1
radium			0.6	12/4/2008	0.3
					0
					0
					0
					0
					0
					0

## Turbidity

(insert summary information from MOR)

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2008	Total Readings	Readings > 0.3 NTU	Monthly Percent	Maximum Reading	401 KAR 8:160
January	31	0	100	0.13	<p>The combined filter effluent turbidity must be less than or equal to three-tenths (0.3) NTU in at least ninety-five (95) percent of the measurements taken each month.</p> <p>The combined filter effluent turbidity cannot exceed one (1) NTU at any time.</p> <p>If the turbidity exceeds one (1) NTU in the combined filter effluent...the system must notify the Division of Water as soon as possible, but no later than the end of the next business day.</p>
February	164	0	100	0.1	
March	161	0	100	0.04	
April	151	0	100	0.18	
May	186	0	100	0.27	
June	176	0	100	0.28	
July	186	0	100	0.19	
August	180	0	100	0.16	
September	150	0	100	0.19	
October	146	0	100	0.12	
November	123	0	100	0.18	
December	169	0	100	0.18	

Total Readings for the Year :

1823

Total Readings Greater Than 0.3 NTU :

0

Lowest Monthly Percentage :

100

Highest Single Reading For Year :

0.28

Turbidity violations are Tier 2 by default, but may be elevated to Tier 1 by DOW. In addition, violations are automatically elevated if you do not consult with DOW within 24 hours. In such cases, you must issue a notice within the next 24 hours.

Tier 1 - Template 1-6

Tier 2 - Template 2-6S or 2-6M

Tier 3 - Template 3-1A

### Individual Filter Monitoring and Reporting and Triggers:

Turbidity greater than 1.0 NTU in two consecutive measurements taken 15 minutes apart	Report the filter number, turbidity measurement, and date of exceedance in addition, either Produce a filter profile within 7 days, if not able to identify obvious reason; or Report the obvious reason for the exceedance
Turbidity greater than 0.5 NTU in two consecutive measurements taken 15 minutes apart at the end of the first 4 hours of operation after backwash or being offline.	Report the filter number, turbidity measurement, and date of exceedance in addition, either Produce a filter profile within 7 days, if not able to identify obvious reason; or Report the obvious reason for the exceedance
Turbidity greater than 1.0 NTU in two consecutive measurements taken 15 minutes apart during each of three consecutive months	Report the filter number, turbidity measurement, and date of exceedance in addition, within 14 days, conduct an assessment consisting of at least: a. Assessment of filter performance b. Development of a filter profile c. Identification and prioritization of factors limiting filter performance d. Assessment of the applicability of corrections e. Preparation of a filter self-assessment report
Turbidity greater than 2.0 NTU in two consecutive measurements taken 15 minutes apart during each of two consecutive months	Report the filter number, turbidity measurement, and date of exceedance in addition a. Within 30 days, arrange for a comprehensive performance evaluation (CPE) b. Within 90 days, complete CPE and submit report to Division of Water
Turbidity greater than 1.0 NTU in representative samples of filtered water	Notify the Division of Water as soon as possible, but no later than the end of the next business day

## Fluoride Readings

(include results for dental health program and from inorganics analysis results)

2008

Jan	0.85	1.03				
Feb	1.6	1.25				
Mar	1.03	1.1				
Apr	1.13	1.09				
May	1.12	0.88				
Jun	1.04	1.02				
Jul	1	1.1				
Aug	1.09	0.87				
Sep	0.97	0.93				
Oct	1.22	0.93				
Nov	1.23	1.01				
Dec	1.05	1.09				

Average

Range

Maximum  
Month

1.07	0.85	to	1.6	Feb
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Primary contaminant MCL is 4 mg/L Secondary contaminant MCL is 2 mg/L

Fluoride is an inorganic chemical regulated by the Division of Water and also regulated by the Cabinet for Health and Family Services as a water additive for dental health. 401 KAR 8:250, Section 3 requires that monitoring for fluoride be conducted annually by surface water systems (or combined surface and groundwater systems) and that groundwater systems monitor for fluoride every three years. However, to satisfy the requirements for the dental health programs, water systems are required to monitor at least twice per month. Since fluoride is being added to the water on a daily basis and is being monitored at least twice per month the Consumer Confidence Report should include the highest detection and range of all monitoring results. Fluoride monitoring conducted to determine compliance for inorganics should be included in the above table and the inorganics spreadsheet within this workbook.

### 401 KAR 8:070 Section 7

A community water system that exceeds the fluoride secondary contaminant level of two (2) mg/L as specified in 401 KAR 8:600, as determined by the last single sample taken in accordance with 401 KAR 8:250, but does not exceed the maximum contaminant level of four (4) mg/L for fluoride, as specified in 401 KAR 8:250, shall provide public notice to persons served by the system.

The notice shall contain the following mandatory language, including the language necessary to complete the information in the brackets:

"This is an alert about your drinking water and a cosmetic dental problem that might affect children under nine years of age. At low levels, fluoride can help prevent cavities, but children drinking water containing more than 2 milligrams per liter (mg/l) of fluoride may develop cosmetic discoloration of their permanent teeth (dental fluorosis). The drinking water provided by your community water system {name} has a fluoride concentration of {insert value} mg/l.

Dental fluorosis, in its moderate or severe forms, may result in a brown staining and/or pitting of the permanent teeth. This problem occurs only in developing teeth, before they erupt from the gums. Children under nine should be provided with alternative sources of drinking water or water that has been treated to remove the fluoride to avoid the possibility of staining and pitting of their permanent teeth. You may also want to contact your dentist about proper use by young children of fluoride-containing products. Older children and adults may safely drink the water.

Drinking water containing more than 4 mg/l of fluoride (The U.S. Environmental Protection Agency's drinking water standard) can increase your risk of developing bone disease. Your drinking water does not contain more than 4 mg/l of fluoride, but we're required to notify you when we discover that the fluoride levels in your drinking water exceed 2 mg/l because of this cosmetic dental problem.

For more information, please call {name of water system contact} of {name of community water system} at {phone number}. Some home water treatment units are also available to remove fluoride from drinking water. To learn more about available home water treatment units, you may call NSF International at 1-877-8-NSF-HELP."



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### Inorganic Contaminants (IOC's)

Contaminant	[code]	MCL (mg/L)	2008								Most Recent Results							
			Analysis Results for Current Year								2008				2004 to 2007			
			Result	Date	Result	Date	Result	Date	Result	Date	Min	Max	Date	Avg	Min	Max	Date	MCL Exceeded
Antimony	1074	0.006	0	Mar-08							0	0						
Arsenic	1005	0.010	0.000	Mar-08							0	0						
Asbestos	MFL	7																
Barium	1010	2	0.018	Mar-08							0.018	0.018	Mar-08					
Beryllium	1075	0.004	0	Mar-08							0	0						
Cadmium	1015	0.005	0	Mar-08							0	0						
Chromium	1020	0.1	0	Mar-08							0	0						
Cyanide	1024	0.2	0	Mar-08							0	0						
Fluoride	1025	4	0.546	Mar-08							0.546	0.546	Mar-08					refer to fluoride spreadsheet
Mercury	1035	0.002	0	Mar-08							0	0						
Nickel	1036	N/A																
Nitrate	1040	10	0.964	Mar-08	0.221	Jun-08					0.221	0.964	Mar-08					
Nitrite	1041	1																
Selenium	1045	0.05	0	Mar-08							0	0						
Thallium	1085	0.002	0	Mar-08							0	0						

**Asbestos** - Sample during the first three (3) year compliance period of each nine (9) year compliance cycle. Systems containing no asbestos may apply for a waiver. A waiver remains in effect until the end of the three (3) year compliance period. Obtain new waiver.

**Confirmation Samples:** If a confirmation sample is required the original analysis result and the confirmation sample analysis result must be averaged. Then replace the original with the average result in the appropriate area above.

Contaminant Name	original sample		confirmation sample		average
	Result	Date	Result	Date	
					0
					0
					0
					0
					0
					0
					0
					0
					0

Current nine (9) year compliance cycle began:				2002
compliance period - 1	2002	thru	2004	waiver obtained
compliance period - 2	2005	thru	2007	waiver obtained
compliance period - 3	2008	thru	2010	waiver obtained
Next nine (9) year compliance cycle begins:				2011

### Synthetic Organic Contaminants (SOC's)

Contaminant	[code]	MCL (mg/L)	2008												Most Recent Results							
			Analysis Results for Current Year								2008			2004 to 2007				MCL Exceeded	CCR Data			
			Result	Date	Result	Date	Result	Date	Result	Date	Min	Max	Date	Avg	Min	Max	Date		Avg	Min	Max	Date
			0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
2,4-D	2150	0.07	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
2,4,5-TP (Silvex)	2110	0.05	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Acrylamide		TT	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Alachlor	2051	0.002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Atrazine	2050	0.003	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Benzo(a)pyrene(PAH)	2306	0.0002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Carbofuran	2046	0.04	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Chlordane	2959	0.002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Dalapon	2031	0.2	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Di(2-ethylhexyl)adipate	2035	0.4	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Di(2-ethylhexyl)phthalate	2039	0.006	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Dibromochloropropane	2931	0.0002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Dinoseb	2041	0.007	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Diquat	2032	0.02	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Dioxin		0.00000003																				
Endothall	2033	0.1	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Endrin	2005	0.002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Epichlorohydrin		TT																				
Ethylene dibromide	2946	0.00005	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Glyphosate	2034	0.7	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Heptachlor	2065	0.0004	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Heptachlor epoxide	2067	0.0002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Hexachlorobenzene	2274	0.001	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Hexachlorocyclopentadiene	2042	0.05	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Lindane	2010	0.0002	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Methoxychlor	2015	0.04	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Oxamyl (Vydate)	2036	0.2	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
PCBs	2383	0.0005	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Pentachlorophenol	2326	0.001	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Picloram	2040	0.5	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Simazine	2037	0.004	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										
Toxaphene	2020	0.003	0	Apr-08	0	Aug-08	0	Sep-08	0	Dec-08	0	0										

**Sampling frequency** Systems serving more than 3,300 may reduce to two (2) quarterly samples in one (1) year during each repeat compliance period. Systems serving 3,300 or fewer may reduce to one (1) sample during each repeat compliance period. Contact the Division of Water to request reduced sampling.

Confirmation Samples:					If a confirmation sample is required the original analysis result and the confirmation sample analysis result must be averaged. Then replace the original with the average result in the appropriate area above.				
Contaminant Name		original sample		confirmation sample		average			
		Result	Date	Result	Date				
						0			



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### Volatile Organic Contaminants (VOC's)

Contaminant	[code]	MCL (mg/L)	2008								Most Recent Results														
			Analysis Results for Current Year								2008			2004 to 2007				MCL Exceeded	CCR Data						
			Result	Date	Result	Date	Result	Date	Result	Date	Min	Max	Date	Avg	Min	Max	Date		Avg	Min	Max	Date			
Benzene	2990	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Carbon tetrachloride	2982	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Chlorobenzene	2989	0.1	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
o-Dichlorobenzene	2968	0.6	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
p-Dichlorobenzene	2969	0.075	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
1,2-Dichloroethane	2980	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
1,1-Dichloroethylene	2977	0.007	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
cis-1,2-Dichloroethylene	2380	0.07	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
trans-1,2-Dichloroethylene	2979	0.1	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Dichloromethane	2964	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
1,2-Dichloropropane	2983	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Ethylbenzene	2992	0.7	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Styrene	2996	0.1	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Tetrachloroethylene	2987	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
1,2,4-Trichlorobenzene	2378	0.07	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
1,1,1-Trichloroethane	2981	0.2	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
1,1,2-Trichloroethane	2985	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Trichloroethylene	2984	0.005	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Toluene	2991	1	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Vinyl Chloride	2976	0.002	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													
Xylenes	2955	10	0	Mar-08	0	May-08	0	Aug-08	0	Nov-08	0	0													

These contaminants are "detected" if measured greater than or equal to 0.0005 mg/L.

Sampling Frequency

After an initial compliance period of four (4) consecutive quarters, systems with no detections may reduce monitoring. Each ground and surface water system may reduce to one (1) sample annually. After a minimum of three (3) years of annual sampling, groundwater systems with no previous detection of any contaminant may be allowed to take one (1) sample during each compliance period. If any of the above contaminants are detected above 0.0005 mg/l, quarterly monitoring may be required. Contact the Division of Water.

#### Confirmation Samples:

If a confirmation sample is required the original analysis result and the confirmation sample analysis result must be averaged. Then replace the original with the average result in the appropriate area above.

Contaminant Name	original sample		confirmation sample		average
	Result	Date	Result	Date	
					0
					0
					0
					0
					0
					0
					0
					0
					0



Kentucky Rural Water Association

System: Columbia/Adair Water  
PWSID: KY-0011016

Type of Disinfectant - (chlorine or chloramines) Chlorine

**Include all routine and repeat disinfectant residuals from bacteriological sample forms. Do not include the results from samples for construction, repairs, or other samples labeled as "special". Bacti samples and disinfectant residuals must match each month.**

2008	January		February		March		April		May		June		July		August		September		October		November		December	
	site	test	site	test	site	test	site	test	site	test	site	test	site	test	site	test	site	test	site	test	site	test	site	test
3																								
2				1.5		0.9		1.3		1.19		1.5		1.41		1.59		1.54		1.73		2.3		1.26
1		1.5		1.7		1.3		1.3		1.3		1.28		1.46		1.8		1.42		1.53		2.25		2.6
Monthly Samples	1		2		2		2		2		2		2		2		2		2		2		2	

Quarterly Average 1.4  
Running Annual Average 1.552  
Individual Range 0.9 to 2.6

System: Columbia/Adair Water

PWSID: KY-0011016

Cryptosporidium		
2008	Total Samples	Positive Samples
Jan		0
Feb		0
Mar		0
Apr		0
May		0
Jun		0
Jul		0
Aug		0
Sep		0
Oct		0
Nov		0
Dec		0

Monthly Maximum

Max Month

Total Samples Max Month

For Year:

Annual Percentage of Positive Samples



Kentucky Rural Water Association

**Secondary Contaminants**  
and  
**Sodium**

System: Columbia/Adair Water  
PWSID: KY-0011016

Contaminant	Maximum Allowable Level	2008				Most Recent Results						MCL Exceeded	CCR Data		
		Results for Current Year				2008			2004 to 2007				Min	Max	Date
		Result	Date	Result	Date	Min	Max	Date	Min	Max	Date				
Aluminum	0.05 to 0.2 mg/l														
Chloride	250 mg/l	15.5	Mar-08			15.5	15.5	Mar-08					15.5	15.5	Mar-08
Color	15 color units														
Copper	1.0 mg/l	0.003	Mar-08			0.003	0.003	Mar-08					0.003	0.003	Mar-08
Corrosivity	Noncorrosive														
Fluoride	2.0 mg/l	0.35	Mar-08			0.35	0.35	Mar-08					0.35	0.35	Mar-08
Foaming Agents	0.5 mg/l														
Iron	0.3 mg/l														
Manganese	0.05 mg/l	0.006	Mar-08			0.006	0.006	Mar-08					0.006	0.006	Mar-08
Odor	3 threshold odor number														
pH	6.5 to 8.5	6.9	Mar-08			6.9	6.9	Mar-08					6.9	6.9	Mar-08
Silver	0.1 mg/l														
Sulfate	250 mg/l	10.5	Mar-08			10.5	10.5	Mar-08					10.5	10.5	Mar-08
Total Dissolved Solids (TDS)	500 mg/l	110	Mar-08			110	110	Mar-08					110	110	Mar-08
Zinc	5 mg/l														

Secondary contaminants are not required to be included in the CCR but some water systems choose to provide this additional information. If included in the CCR, secondary contaminants must be in a separate table and cannot be listed with other required detected contaminants.

**Sodium**

Sodium optimum level = 20 mg/L

Results for Current Year				2008			2004 to 2007		
Result	Date	Result	Date	Min	Max	Date	Min	Max	Date
5.3	Mar-08			5.28	5.28	Mar-08			

CCR Data		
Min	Max	Date
5.28	5.28	Mar-08

Groundwater - once annually

Surface water - once in wet season and once in dry season.

Water suppliers are required to notify local and state health officials of sodium levels, by written notice by direct mail, within three months of testing. A copy of each notice is required to be sent to EPA within 10 days of its issuance.

<b>Violation(s):</b>	failed to report spill or discharge to Division of Water as required		
<b>Date Received</b>	<input type="text" value="11/5/2008"/>		
<b>Was DOW consulted?</b>	<input type="text" value="yes"/>	<b>Date:</b>	10/20/2008
<b>Tier 1, 2, or 3?</b>	<input type="text" value="1"/>		
	<small>(insert date below)</small>		
<b>Customers Notified</b>	<input type="text"/>		
<b>Two delivery methods used:</b>	<input type="text"/>	<input type="text"/>	
	<small>(insert date below)</small>	<b>comments:</b>	
<b>Copy &amp; certification to DOW:</b>	<input type="text"/>	Discharge Violation, corrected.	
	<input type="text"/>		
<b>Included in CCR?</b>	<input type="text" value="yes"/>		
	<input type="text"/>		

<b>Violation(s):</b>	<input type="text"/>		
	<small>(insert date below)</small>		
<b>Date Received</b>	<input type="text"/>		
<b>Was DOW consulted?</b>	<input type="text"/>		
<b>Tier 1, 2, or 3?</b>	<input type="text"/>		
	<small>(insert date below)</small>		
<b>Customers Notified</b>	<input type="text"/>		
<b>Two delivery methods used:</b>	<input type="text"/>	<input type="text"/>	
	<small>(insert date below)</small>	<b>comments:</b>	
<b>Copy &amp; certification to DOW:</b>	<input type="text"/>		
	<input type="text"/>		
<b>Included in CCR?</b>	<input type="text"/>		
	<input type="text"/>		

<b>Violation(s):</b>	<input type="text"/>		
	<small>(insert date below)</small>		
<b>Date Received</b>	<input type="text"/>		
<b>Was DOW consulted?</b>	<input type="text"/>		
<b>Tier 1, 2, or 3?</b>	<input type="text"/>		
	<small>(insert date below)</small>		
<b>Customers Notified</b>	<input type="text"/>		
<b>Two delivery methods used:</b>	<input type="text"/>	<input type="text"/>	
	<small>(insert date below)</small>	<b>comments:</b>	
<b>Copy &amp; certification to DOW:</b>	<input type="text"/>		
	<input type="text"/>		
<b>Included in CCR?</b>	<input type="text"/>		
	<input type="text"/>		