

COPY

WATER

CLASS A & B WATER COMPANIES

ANNUAL REPORT

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OF

MAR 30 2007

PUBLIC SERVICE
COMMISSION

KENTUCKY AMERICAN WATER COMPANY

2300 Richmond Road, Lexington, Kentucky 40502

TO THE

PUBLIC SERVICE COMMISSION

OF THE

COMMONWEALTH OF KENTUCKY

211 SOWER BLVD.
P. O. BOX 615
FRANKFORT, KENTUCKY 40602

FOR THE YEAR ENDED DECEMBER 31, 2006

Kentucky American
Internal Check List

						Difference	Variance
Utility Plant Acquisition Adjustment	Page 7	347,965	Page 17	347,965	0		
Provision for Uncollectible Accounts	Page 7	2,794,913	Page 19	2,794,913	0		
Material & Supplies	Page 7	515,515	Page 20	515,515	0		
Prepayments	Page 7	69,208	Page 20	69,208	0		
Unamortized Debt Discount & Expense	Page 8	462,791	Page 21	462,791	0		
Extraordinary Property Losses	Page 8	0	Page 21	0	0		
Miscellaneous Deferred Debits	Page 8	5,530,696	Page 20	5,530,696	0		
Accumulated Deferred Income Taxes	Page 8	0	Page 21	0	0		
Common Stock Issued	Page 9	36,568,776	Page 22	36,568,776	0		
Preferred Stock Issued	Page 9	5,966,100	Page 22	5,966,100	0		
Retained Earnings	Page 9	28,434,769	Page 13	28,434,769	0		
Bonds	Page 9	49,900,000	Page 24	49,900,000	0		
Notes Payable	Page 9	3,297,057	Page 25	3,297,057	0		
Accounts Payable Associated Company	Page 9	1,018,691	Page 25	1,018,691	0		
Current Portion Long Term Debt	Page 9	27,100,000	Page 25	27,100,000	0		
Accrued Taxes	Page 9	8,512,511	Page 26	8,512,511	0		
Interest Accrued	Page 9	581,042	Page 27	581,042	0		
Miscellaneous Current & Accrued Liabilities	Page 9	5,395,964	Page 27a	5,395,964	0		
Unamortized Premium on Debt	Page 10	0	Page 21	0	0		
Advances for Construction	Page 10	16,492,638	Page 22	16,492,638	0		
Contributions in Aid of Construction	Page 10	50,089,413	Page 28	50,089,413	0		
Accumulated Amortization of CIAC	Page 10	(10,254,181)	Page 28	(10,254,181)	0		
Operating Revenues	Page 11	48,706,602	Page 30	48,706,602	0		
Operating Expense	Page 11	25,960,316	Page 31	25,960,316	0		
Water Purchased for Resale	Page 32	75,995	Page 33	75,995	0		
Water Pumped	Page 32	15,542,842	Page 33	15,542,842	0		
Water Sold	Page 32	12,727,217	Page 33	12,727,217	0		
amortization of debt expense	page 12	72,873	page 21	72,873	0		

0 sewer property listed c
0

CLASS "A & B"
WATER COMPANIES

ANNUAL REPORT

OF

KENTUCKY-AMERICAN WATER COMPANY
Exact Legal Name of Respondent

FOR THE
YEAR ENDED DECEMBER 31, 2006

NOTICE

1. Prepare this report in conformity with the 1984 National Association of Utility Regulatory Commissioners Uniform System of Accounts for Water Utilities as adopted by this Commission for Class A & B water companies.
2. Interpret all accounting words and phrases in accordance with the USOA.
3. Complete each question fully and accurately, even if it has been answered in a previous annual report. Enter the work "None" where it truly and completely states the fact.
4. For any question, section, or page which is not applicable to the respondent, enter the words "Not Applicable" or "NA". Do not omit any pages.
5. Where dates are called for, the month and day should be stated as well as the year.
6. Complete this report by means which result in a permanent record, such as by typewriter. Money items (except averages) throughout the report should be shown in units of dollars adjusted to accord with footings.
7. If there is not enough room on any schedule, an additional page or pages may be added provided the format of the added schedule matches the format of the schedule with not enough room. Such a schedule should reference the appropriate schedules, state the name of the utility, and state the year of the report.
8. The report should be filled out in duplicate and one copy returned by March 31 of the year following the date of the report. The report should be returned to:

**Public Service Commission
211 Sower Blvd.
P. O. Box 615
Frankfort, Kentucky 40602**

PUBLIC SERVICE COMMISSION OF KENTUCKY
PRINCIPAL PAYMENT AND INTEREST INFORMATION
FOR THE YEAR ENDING DECEMBER 31, 2006

1. Amount of Principal Payment during calendar year _____ \$0
2. Is Principal current? YES x NO _____
3. Is Interest current? YES x NO _____
4. Has all long-term debt been approved by the Public Service Commission?
YES x NO _____ PSC Case No. _____

SERVICES PERFORMED BY
INDEPENDENT CERTIFIED PUBLIC ACCOUNTANT

Are the financial statements examined by a Certified Public Accountant?

YES x NO _____

If YES, which service is performed?

Audit x

Compilation _____

Review _____

Please enclose a copy of the accountant's report with annual report.

Additional Requested Information

Utility Name Kentucky American Water

Contact Person Rachel Cole

Contact Person's E-Mail Address RCole@KAWC.com

Utility's Web Address www.kawc.com

Please Complete the above Information, if it is available

If there are multiple staff who may be contacts please include their names and e-mail addresses also.

Additional Information Required By Commission Orders

Provide any special information required by prior Commission orders, as well as any narrative explanations necessary to fully explain the data. Examples of the types of special information that may be required by Commission orders include surcharge amounts collected, refunds issued, and unusual debt repayments.

Case #	Date of Order	Items/Explanations
2002-00018		The attached supplements #1 and #2 are in reponse to ordering paragraph #7 and Condition #35 in Public Service Commission Case #2002-0018.

Attach additional sheets if more room is required

MAJOR WATER PROJECTS

Instructions: Provide details about each major water project which is planned but has not yet been submitted for approval to the Public Service Commission. For the limited purpose of this report, a "major Project is defined as one which is not in the ordinary course of business, and which will increase your current utility plant by at least 20%.

Brief Project Description (improvement, replacement, building construction, expansion. If expansion, provide the estimate number of new customers):

Resolution of Source of Supply and treatment capacity deficits. Kentucky American has proposed a 20 mgd treatment plant on Pool 3 of the Kentucky River with a transmission line to bring water into the Central District distribution system. KAW is currently negotiating on a regional partnership with the Bluegrass Water Supply Commission and the plant may be expanded to as large as 30 mgd. One storage tank and booster pump station will be necessary along the transmission line.

Projected Costs and Funding Sources/Amounts:

Estimated cost is now \$155 million. KAW is prepared to provide funding for the entire project through private funding. Cost allocations and funding sources for the Bluegrass Water Supply Commission have not been determined yet.

Approval Status: (Application for financial assistance filed, but not approved; or application approved, but have not advertised for construction bids)

Application for Certificate of Convenience and Necessity will be filed in Spring 2007. Bids will be advertised in Spring 2007.

Location: (community, area or nearby roads)

The proposed Water Treatment Plant will be located in Owen County on US 127 at the Franklin County line. The raw water intake station is proposed on an adjacent property in Franklin County. The transmission line is proposed to run 30.5 miles along KY 1262 in Franklin County, to Woodlake Road, then along US 460 to Ironworks in Scott County, then south to I-75 in Fayette County, continuing along Ironworks with a connection at Newtown Pike. The proposed storage tank and booster pump station will be located near the Franklin/Scott County line on Woodlake Road north of US 460.

RWE Order Requirement #7 and Condition #35

<u>KAWC Operational Measures</u>	<u>2005</u>	<u>2006</u>
1 Number of water service interruptions (boil water advisories):	141	27
2 Average # of customers impacted from water service interruptions:	24.68	54.5
3 Average length of time of water service interruption/loss of water (l in hours):	2.62	4.04
4 Number of Customer Complaints from PSC:	52	51
5 Average response time to answer phones (in seconds):	41	63
6 Number of customer calls:	171,248	165,192

List of Drinking Water Contaminants & MCLs

National Primary Drinking Water Regulations

National Primary Drinking Water Regulations (NPDWRs or primary standards) are legally enforceable standards that apply to public water systems. Primary standards protect public health by limiting the levels of contaminants in drinking water.

Updated Monday, January 22, 2007 by David Shehee
 URL: <http://www.epa.gov/safewater/mcl.html>

Microorganisms

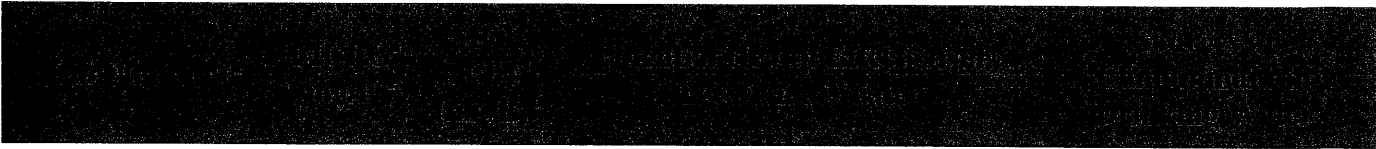
<u>Cryptosporidium</u> (pdf file)	zero	TT ³	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and fecal animal waste
Giardia lamblia	zero	TT ³	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste
Heterotrophic plate count	n/a	TT ³	HPC has no health effects; it is an analytic method used to measure the variety of bacteria that are common in water. The lower the concentration of bacteria in drinking water, the better maintained the water system is.	HPC measures a range of bacteria that are naturally present in the environment
Legionella	zero	TT ³	Legionnaire's Disease, a type of pneumonia	Found naturally in water; multiplies in heating systems
<u>Total Coliforms (including fecal coliform and E. Coli)</u>	zero	5.0% ⁴	Not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present ⁵	Coliforms are naturally present in the environment; as well as feces; fecal coliforms and <i>E. coli</i> only come from human and animal fecal waste.
<u>Turbidity</u>	n/a	TT ³	Turbidity is a measure of the cloudiness of water. It is used to	Soil runoff

indicate water quality and filtration effectiveness (e.g., whether disease-causing organisms are present). Higher turbidity levels are often associated with higher levels of disease-causing microorganisms such as viruses, parasites and some bacteria. These organisms can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

Viruses (enteric)	zero	TT ³	Gastrointestinal illness (e.g., diarrhea, vomiting, cramps)	Human and animal fecal waste
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[Top of page](#)

Disinfection Byproducts



<u>Bromate</u>	zero	0.010	Increased risk of cancer	Byproduct of drinking water disinfection
<u>Chlorite</u>	0.8	1.0	Anemia; infants & young children: nervous system effects	Byproduct of drinking water disinfection
<u>Haloacetic acids (HAA5)</u>	n/a ⁶	0.060	Increased risk of cancer	Byproduct of drinking water disinfection
<u>Total Trihalomethanes (TTHMs)</u>	none ⁷ ----- n/a ⁶	0.10 ----- - 0.080	Liver, kidney or central nervous system problems; increased risk of cancer	Byproduct of drinking water disinfection

[Top of page](#)

Disinfectants



<u>Chloramines (as Cl₂)</u>	MRDLG=4 ¹	MRDL=4.0 ¹	Eye/nose irritation; stomach discomfort, anemia	Water additive used to control microbes
<u>Chlorine (as Cl₂)</u>	MRDLG=4 ¹	MRDL=4.0 ¹	Eye/nose irritation; stomach discomfort	Water additive used to control microbes
<u>Chlorine dioxide (as ClO₂)</u>	MRDLG=0.8 ¹	MRDL=0.8 ¹	Anemia; infants & young children: nervous system effects	Water additive used to control microbes

[Top of page](#)

Inorganic Chemicals



<u>Antimony</u>	0.006	0.006	Increase in blood cholesterol; decrease in blood sugar	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
<u>Arsenic</u>	0 ⁷	0.010 as of 01/23/06	Skin damage or problems with circulatory systems; and may have increased risk of getting cancer	Erosion of natural deposits; runoff from orchards, runoff from glass & electronics production wastes
<u>Asbestos (fiber >10 micrometers)</u>	7 million fibers per liter	7 MFL	Increased risk of developing benign intestinal polyps	Decay of asbestos cement in water mains; erosion of natural deposits
<u>Barium</u>	2	2	Increase in blood pressure	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
<u>Beryllium</u>	0.004	0.004	Intestinal lesions	Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and defense industries
<u>Cadmium</u>	0.005	0.005	Kidney damage	Corrosion of galvanized pipes; erosion of natural

				deposits; discharge from metal refineries; runoff from waste batteries and paints
<u>Chromium (total)</u>	0.1	0.1	Allergic dermatitis	Discharge from steel and pulp mills; erosion of natural deposits
<u>Copper</u>	1.3	TT ⁸ ; Action Level=1.3	Short term exposure: Gastrointestinal distress Long term exposure: Liver or kidney damage People with Wilson's Disease should consult their personal doctor if the amount of copper in their water exceeds the action level	Corrosion of household plumbing systems; erosion of natural deposits
<u>Cyanide (as free cyanide)</u>	0.2	0.2	Nerve damage or thyroid problems	Discharge from steel/metal factories; discharge from plastic and fertilizer factories
Fluoride	4.0	4.0	Bone disease (pain and tenderness of the bones); Children may get mottled teeth	Water additive which promotes strong teeth; erosion of natural deposits; discharge from fertilizer and aluminum factories
<u>Lead</u>	zero	TT ⁸ ; Action Level=0.015	Infants and children: Delays in physical or mental development; children could show slight deficits in attention span and learning abilities Adults: Kidney problems; high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits
<u>Mercury (inorganic)</u>	0.002	0.002	Kidney damage	Erosion of natural deposits; discharge from refineries and factories; runoff from landfills and croplands

<u>Nitrate (measured as Nitrogen)</u>	10	10	Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<u>Nitrite (measured as Nitrogen)</u>	1	1	Infants below the age of six months who drink water containing nitrite in excess of the MCL could become seriously ill and, if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
<u>Selenium</u>	0.05	0.05	Hair or fingernail loss; numbness in fingers or toes; circulatory problems	Discharge from petroleum refineries; erosion of natural deposits; discharge from mines
<u>Thallium</u>	0.0005	0.002	Hair loss; changes in blood; kidney, intestine, or liver problems	Leaching from ore-processing sites; discharge from electronics, glass, and drug factories

[Top of page](#)

Organic Chemicals



<u>Acrylamide</u>	zero	TT ²	Nervous system or blood problems; increased risk of cancer	Added to water during sewage/wastewater treatment
<u>Alachlor</u>	zero	0.002	Eye, liver, kidney or spleen problems; anemia; increased risk of cancer	Runoff from herbicide used on row crops
<u>Atrazine</u>	0.003	0.003	Cardiovascular system or	Runoff from

			reproductive problems	herbicide used on row crops
<u>Benzene</u>	zero	0.005	Anemia; decrease in blood platelets; increased risk of cancer	Discharge from factories; leaching from gas storage tanks and landfills
<u>Benzo(a)pyrene (PAHs)</u>	zero	0.0002	Reproductive difficulties; increased risk of cancer	Leaching from linings of water storage tanks and distribution lines
<u>Carbofuran</u>	0.04	0.04	Problems with blood, nervous system, or reproductive system	Leaching of soil fumigant used on rice and alfalfa
<u>Carbon tetrachloride</u>	zero	0.005	Liver problems; increased risk of cancer	Discharge from chemical plants and other industrial activities
<u>Chlordane</u>	zero	0.002	Liver or nervous system problems; increased risk of cancer	Residue of banned termiticide
<u>Chlorobenzene</u>	0.1	0.1	Liver or kidney problems	Discharge from chemical and agricultural chemical factories
<u>2,4-D</u>	0.07	0.07	Kidney, liver, or adrenal gland problems	Runoff from herbicide used on row crops
<u>Dalapon</u>	0.2	0.2	Minor kidney changes	Runoff from herbicide used on rights of way
<u>1,2-Dibromo-3-chloropropane (DBCP)</u>	zero	0.0002	Reproductive difficulties; increased risk of cancer	Runoff/leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards
<u>o-Dichlorobenzene</u>	0.6	0.6	Liver, kidney, or circulatory system	Discharge from industrial chemical

			problems	factories
<u>p-Dichlorobenzene</u>	0.075	0.075	Anemia; liver, kidney or spleen damage; changes in blood	Discharge from industrial chemical factories
<u>1,2-Dichloroethane</u>	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
<u>1,1-Dichloroethylene</u>	0.007	0.007	Liver problems	Discharge from industrial chemical factories
<u>cis-1,2-Dichloroethylene</u>	0.07	0.07	Liver problems	Discharge from industrial chemical factories
<u>trans-1,2-Dichloroethylene</u>	0.1	0.1	Liver problems	Discharge from industrial chemical factories
<u>Dichloromethane</u>	zero	0.005	Liver problems; increased risk of cancer	Discharge from drug and chemical factories
<u>1,2-Dichloropropane</u>	zero	0.005	Increased risk of cancer	Discharge from industrial chemical factories
Di(2-ethylhexyl) adipate	0.4	0.4	Weight loss, liver problems, or possible reproductive difficulties.	Discharge from chemical factories
Di(2-ethylhexyl) phthalate	zero	0.006	Reproductive difficulties; liver problems; increased risk of cancer	Discharge from rubber and chemical factories
<u>Dinoseb</u>	0.007	0.007	Reproductive difficulties	Runoff from herbicide used on soybeans and vegetables
<u>Dioxin (2,3,7,8-TCDD)</u>	zero	0.00000003	Reproductive difficulties; increased risk of cancer	Emissions from waste incineration and other combustion;

				discharge from chemical factories
<u>Diquat</u>	0.02	0.02	Cataracts	Runoff from herbicide use
<u>Endothall</u>	0.1	0.1	Stomach and intestinal problems	Runoff from herbicide use
<u>Endrin</u>	0.002	0.002	Liver problems	Residue of banned insecticide
<u>Epichlorohydrin</u>	zero	TT ²	Increased cancer risk, and over a long period of time, stomach problems	Discharge from industrial chemical factories; an impurity of some water treatment chemicals
<u>Ethylbenzene</u>	0.7	0.7	Liver or kidneys problems	Discharge from petroleum refineries
<u>Ethylene dibromide</u>	zero	0.00005	Problems with liver, stomach, reproductive system, or kidneys; increased risk of cancer	Discharge from petroleum refineries
<u>Glyphosate</u>	0.7	0.7	Kidney problems; reproductive difficulties	Runoff from herbicide use
<u>Heptachlor</u>	zero	0.0004	Liver damage; increased risk of cancer	Residue of banned termiticide
<u>Heptachlor epoxide</u>	zero	0.0002	Liver damage; increased risk of cancer	Breakdown of heptachlor
<u>Hexachlorobenzene</u>	zero	0.001	Liver or kidney problems; reproductive difficulties; increased risk of cancer	Discharge from metal refineries and agricultural chemical factories
<u>Hexachlorocyclopentadiene</u>	0.05	0.05	Kidney or stomach problems	Discharge from chemical factories
<u>Lindane</u>	0.0002	0.0002	Liver or kidney problems	Runoff/leaching from insecticide

				used on cattle, lumber, gardens
<u>Methoxychlor</u>	0.04	0.04	Reproductive difficulties	Runoff/leaching from insecticide used on fruits, vegetables, alfalfa, livestock
<u>Oxamyl (Vydate)</u>	0.2	0.2	Slight nervous system effects	Runoff/leaching from insecticide used on apples, potatoes, and tomatoes
<u>Polychlorinated biphenyls (PCBs)</u>	zero	0.0005	Skin changes; thymus gland problems; immune deficiencies; reproductive or nervous system difficulties; increased risk of cancer	Runoff from landfills; discharge of waste chemicals
<u>Pentachlorophenol</u>	zero	0.001	Liver or kidney problems; increased cancer risk	Discharge from wood preserving factories
<u>Picloram</u>	0.5	0.5	Liver problems	Herbicide runoff
<u>Simazine</u>	0.004	0.004	Problems with blood	Herbicide runoff
<u>Styrene</u>	0.1	0.1	Liver, kidney, or circulatory system problems	Discharge from rubber and plastic factories; leaching from landfills
<u>Tetrachloroethylene</u>	zero	0.005	Liver problems; increased risk of cancer	Discharge from factories and dry cleaners
<u>Toluene</u>	1	1	Nervous system, kidney, or liver problems	Discharge from petroleum factories
<u>Toxaphene</u>	zero	0.003	Kidney, liver, or thyroid problems; increased risk of cancer	Runoff/leaching from insecticide used on cotton and cattle

<u>2,4,5-TP (Silvex)</u>	0.05	0.05	Liver problems	Residue of banned herbicide
<u>1,2,4-Trichlorobenzene</u>	0.07	0.07	Changes in adrenal glands	Discharge from textile finishing factories
<u>1,1,1-Trichloroethane</u>	0.20	0.2	Liver, nervous system, or circulatory problems	Discharge from metal degreasing sites and other factories
<u>1,1,2-Trichloroethane</u>	0.003	0.005	Liver, kidney, or immune system problems	Discharge from industrial chemical factories
<u>Trichloroethylene</u>	zero	0.005	Liver problems; increased risk of cancer	Discharge from metal degreasing sites and other factories
<u>Vinyl chloride</u>	zero	0.002	Increased risk of cancer	Leaching from PVC pipes; discharge from plastic factories
<u>Xylenes (total)</u>	10	10	Nervous system damage	Discharge from petroleum factories; discharge from chemical factories

Top of page

Radionuclides

Alpha particles	none ⁷ ----- zero	15 picocuries per Liter (pCi/L)	Increased risk of cancer	Erosion of natural deposits of certain minerals that are radioactive and may emit a form of radiation known as alpha radiation
Beta particles and	none ⁷	4	Increased risk of cancer	Decay of natural and

photon emitters	----- zero	millirems per year		man-made deposits of certain minerals that are radioactive and may emit forms of radiation known as photons and beta radiation
Radium 226 and Radium 228 (combined)	none ⁷ ----- zero	5 pCi/L	Increased risk of cancer	Erosion of natural deposits
Uranium	zero	30 ug/L as of 12/08/03	Increased risk of cancer, kidney toxicity	Erosion of natural deposits

[Top of page](#)

Notes

¹ Definitions:

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to MCLGs as feasible using the best available treatment technology and taking cost into consideration. MCLs are enforceable standards.

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 and are non-enforceable public health goals.

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.

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

² Units are in milligrams per liter (mg/L) unless otherwise noted. Milligrams per liter are equivalent to parts per million.

³ EPA's surface water treatment rules require systems using surface water or ground water under the direct influence of surface water to (1) disinfect their water, and (2) filter their water or meet criteria for avoiding filtration so that the following contaminants are controlled at the following levels:

- Cryptosporidium: (as of 1/1/02 for systems serving >10,000 and 1/14/05 for systems serving <10,000) 99% removal.

- *Giardia lamblia*: 99.9% removal/inactivation
- Viruses: 99.99% removal/inactivation
- *Legionella*: No limit, but EPA believes that if *Giardia* and viruses are removed/inactivated, *Legionella* will also be controlled.
- Turbidity: At no time can turbidity (cloudiness of water) go above 5 nephelometric turbidity units (NTU); systems that filter must ensure that the turbidity go no higher than 1 NTU (0.5 NTU for conventional or direct filtration) in at least 95% of the daily samples in any month. As of January 1, 2002, turbidity may never exceed 1 NTU, and must not exceed 0.3 NTU in 95% of daily samples in any month.
- HPC: No more than 500 bacterial colonies per milliliter.
- Long Term 1 Enhanced Surface Water Treatment (Effective Date: January 14, 2005); Surface water systems or (GWUDI) systems serving fewer than 10,000 people must comply with the applicable Long Term 1 Enhanced Surface Water Treatment Rule provisions (e.g. turbidity standards, individual filter monitoring, *Cryptosporidium* removal requirements, updated watershed control requirements for unfiltered systems).
- Filter Backwash Recycling; The Filter Backwash Recycling Rule requires systems that recycle to return specific recycle flows through all processes of the system's existing conventional or direct filtration system or at an alternate location approved by the state.

⁴ more than 5.0% samples total coliform-positive in a month. (For water systems that collect fewer than 40 routine samples per month, no more than one sample can be total coliform-positive per month.) Every sample that has total coliform must be analyzed for either fecal coliforms or *E. coli* if two consecutive TC-positive samples, and one is also positive for *E. coli* fecal coliforms, system has an acute MCL violation.

⁵ Fecal coliform and *E. coli* are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Disease-causing microbes (pathogens) in these wastes can cause diarrhea, cramps, nausea, headaches, or other symptoms. These pathogens may pose a special health risk for infants, young children, and people with severely compromised immune systems.

⁶ Although there is no collective MCLG for this contaminant group, there are individual MCLGs for some of the individual contaminants:

- Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L). Chloroform is regulated with this group but has no MCLG.
- Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.3 mg/L). Monochloroacetic acid, bromoacetic acid, and dibromoacetic acid are regulated with this group but have no MCLGs.

⁷ MCLGs were not established before the 1986 Amendments to the Safe Drinking Water Act. Therefore, there is no MCLG for this contaminant.

⁸ Lead and copper are regulated by a Treatment Technique that requires systems to control the corrosiveness of their water. If more than 10% of tap water samples exceed the action level, water systems must take additional steps. For copper, the action level is 1.3 mg/L, and for lead is 0.015 mg/L.

⁹ Each water system must certify, in writing, to the state (using third-party or manufacturer's certification) that when acrylamide and epichlorohydrin are used in drinking water systems, the combination (or product) of dose and monomer level does not exceed the levels specified, as follows:

- Acrylamide = 0.05% dosed at 1 mg/L (or equivalent)
- Epichlorohydrin = 0.01% dosed at 20 mg/L (or equivalent)


[Top of page](#)

National Secondary Drinking Water Regulations

National Secondary Drinking Water Regulations (NSDWRs or secondary standards) are non-enforceable guidelines regulating contaminants that may cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste, odor, or color) in drinking water. EPA recommends secondary standards to water systems but does not require systems to comply. However, states may choose to adopt them as enforceable standards.

- [National Secondary Drinking Water Regulations](#) - The complete regulations regarding these contaminants available from the Code of Federal Regulations Web Site.
- For more information, read [Secondary Drinking Water Regulations: Guidance for Nuisance Chemicals](#).

List of National Secondary Drinking Water Regulations



Aluminum	0.05 to 0.2 mg/L
Chloride	250 mg/L
Color	15 (color units)
Copper	1.0 mg/L
Corrosivity	noncorrosive
Fluoride	2.0 mg/L
Foaming Agents	0.5 mg/L
Iron	0.3 mg/L

Manganese	0.05 mg/L
Odor	3 threshold odor number
pH	6.5-8.5
Silver	0.10 mg/L
Sulfate	250 mg/L
Total Dissolved Solids	500 mg/L
Zinc	5 mg/L

[Top of page](#)

Unregulated Contaminants

This list of contaminants which, at the time of publication, are not subject to any proposed or promulgated national primary drinking water regulation (NPDWR), are known or anticipated to occur in public water systems, and may require regulations under SDWA. For more information check out the list, or visit the Drinking Water Contaminant Candidate List (CCL) web site.

- [Drinking Water Contaminant Candidate List 2](#)
- [Drinking Water Contaminant Candidate List \(CCL\) Web Site](#)
- [Unregulated Contaminant Monitoring Program \(UCM\)](#)
- **Information on specific unregulated contaminants**
 - [MTBE \(methyl-t-butyl ether\) in drinking water](#)

