

2013 Water Quality Report



Public Water Supplier Identification
Number PA1230004

This report has been prepared as a requirement of the Federal Safe Drinking Water Act.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien. Las personas que tengan necesidades medicas especiales, por favor lean la página 4.

If you have a special health concern, please see page 4.



Welcome to the Chester Water Authority (CWA) Water Quality Report for the 2013 calendar year. This Water Quality Report provides information on how the Authority operates, how we treat your water, and the results of testing we perform on your water. We hope you find it informative. We are proud that our water meets all state and federal regulations.

We are pleased to provide this information to our customers.

This report has been produced in accordance with United States Environmental Protection Agency (EPA) and Pennsylvania Department of Environmental Protection (PADEP) regulations. A short glossary has been provided on page 6 to explain technical terms used in the report.

At Chester Water Authority, we welcome your questions about the drinking water we supply. You'll find information about contacting CWA inside this report. If you have a special health concern, please see the information on page 4.

Who is Chester Water Authority?

We are a Pennsylvania municipal authority established in 1939 for the purpose of providing potable water to our customers. We are a public water supplier, and not for profit.

We serve people residing in southwestern Delaware County, Pennsylvania; southern Chester County, Pennsylvania; and northern New Castle County, Delaware. Some of the people we supply are our direct customers. Others receive our water indirectly, through the resale of our water by neighboring water utilities in Pennsylvania and Delaware.

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Please share this information with other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or by distributing copies by hand or by mail.



About our source water assessment

Where does your water come from?

In 1996, Congress added a Source Water Assessment and Protection program to the Safe Drinking Water Act. This program requires PADEP to identify all untreated surface waters in Pennsylvania that serve as sources of drinking water and to assess their susceptibility to contamination.

An assessment of the Octoraro Reservoir was completed in 1998. It found the reservoir to be most susceptible to contamination by nutrients and sediments from agriculture.

The nutrients and sediments contribute to elevated nitrate, phosphorus, bacteria, and organic levels in the reservoir. These, in turn, cause undesirable tastes and odors, algae growth, and siltation. The assessment also identified other potential sources of contaminants, including spills from roads and bridges, residential and municipal wastewater treatment, urban stormwater runoff, and industrial discharges.

An assessment of the Susquehanna source was completed in 2003. It found this supply to be most susceptible to agricultural contaminants, spills from roads and bridges, and urban stormwater runoff. It is also susceptible to discharges from wastewater treatment plants, water treatment plants, and industry. The assessment focused on the Lower Susquehanna drainage basin that was within 25 hours' travel time of our intake (approximately 308 square miles).

Overall, both the Octoraro Reservoir and Susquehanna sources are considered to have a high rate of significant contamination.

If you would like to receive a copy of the source water assessment summary for either the Octoraro Reservoir or the Susquehanna intake, please call Chester Water Authority at 1-800-217-7880.

The water you receive is treated and pumped to you from the CWA Octoraro Treatment Plant. In 2013, this facility produced an average of 30 million gallons of drinking water each day.

The water treated at the Octoraro Treatment Plant comes from two sources: the Octoraro Reservoir on the Octoraro Creek, and the Conowingo Pool of the Susquehanna River. Both of these sources are in the Susquehanna River Basin.



415 Welsh Street • Chester, PA 19013 Web: www.chesterwater.com
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Telephone: 8:00 AM to 7:00 PM • Telephone: 610-876-8181 • 800-793-2323

Emergencies:
24 HOURS PER DAY
7 DAYS PER WEEK
Telephone: 610-876-8181

Why do we treat your water?

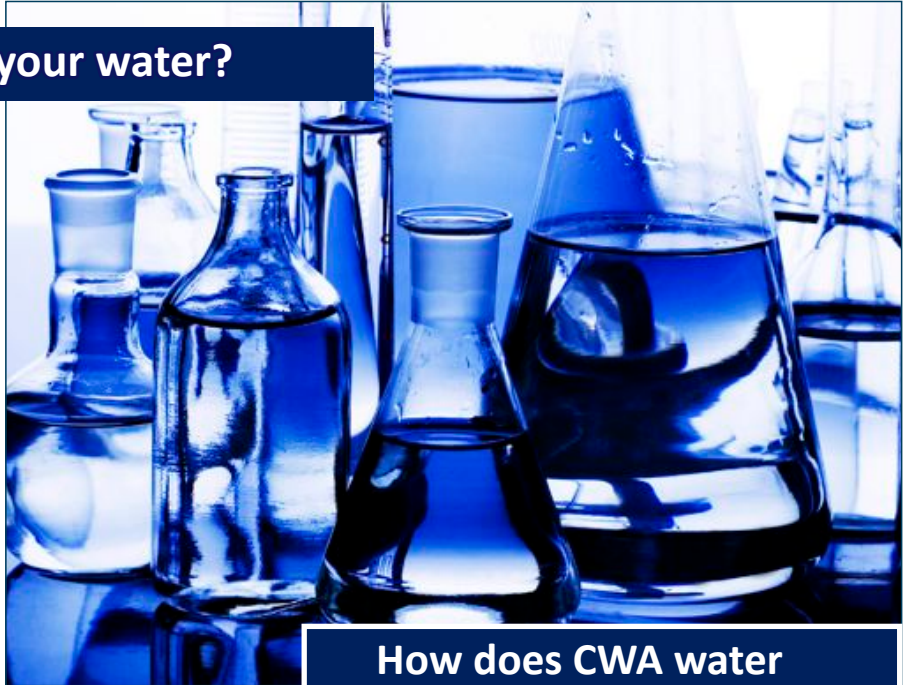
All water—in rivers, streams, ponds, wells, or anywhere—can become contaminated. Farm animals, automobiles, industries, and the daily activities of people all create waste. If this waste enters a natural body of water like a stream or river, it can cause contamination. That's why we treat all the water we furnish to your home or business.

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 can 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, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can occur naturally or can result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.
- Radioactive contaminants, which can occur naturally or can be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations that limit the amounts of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water which must provide the same protection for public health.



How does CWA water measure up?

The EPA and PADEP have established regulations that require public water systems to monitor for certain contaminants. They have also set limits for the amounts of contaminants that may be present in drinking water.

As your water supplier, we recognize that contaminants may be present in source water. We also understand the responsibility we have to operate the treatment processes of the Octoraro Treatment Plant in such a way that the finished drinking water we produce complies with all drinking water standards. Our mission is to provide quality water to all our customers, when they need it, at a reasonable cost.

We are proud that in 2013, as in previous years, the water we supplied to you complied with all contaminant limits established by the U.S. Environmental Protection Agency and the Pennsylvania Department of Environmental Protection. No MCLs or Treatment Techniques were exceeded.



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If you have a special health concern

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised 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. Environmental Protection Agency (EPA)/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the EPA's Safe Drinking Water Hotline at 1-800-426-4791.

Alguna gente puede ser más vulnerable a los contaminantes en agua potable que la población en general. Las personas inmunocomprometidas tales como personas con los trasplantes del órgano del cáncer que experimentan, la gente con VIH/SIDA u otros desórdenes del sistema inmune, algunos ancianos, e infantes pueden estar determinado en el riesgo de infecciones. Esta gente debe buscar consejo sobre guías de consulta el beber en medios apropiados de aminorar el riesgo de la infección por Cryptosporidium y otros contaminantes microbiológicos están disponibles del teléfono directo seguro del agua potable (1-800-426-4791).

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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 1-800-426-4791.



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About Fluoride in Drinking Water

Fluoridation of drinking water has been endorsed by the American Dental Association (ADA) since 1950 because of the public health benefit that fluoridation provides in preventing tooth decay. The Centers for Disease Control (CDC) considers drinking water fluoridation one of the ten great public health achievements of the twentieth century. In 1968, Chester Water Authority received a permit from PADEP to fluoridate. In January 2011, the U.S. Department of Health and Human Services and EPA recommended a maximum fluoride level of 0.7 ppm. CWA water contained an average of 0.64 ppm of fluoride in 2013.

For parents (caregivers) of infants: The ADA and the CDC recommend the following for the parents of infants: Parents should consider preparing powdered or liquid concentrate infant formulas using water that contains no or low levels of fluoride, if reconstituted formula is the primary source of nutrition for the infant. Other sources of infant nutrition could include breast milk or ready-to-feed (no-mix) formula, both of which are low in fluoride.

Some fluoride is beneficial, but dental fluorosis or mottling of the teeth can occur if an infant receives too much fluoride. Infants are susceptible to receiving too much fluoride due to their low body weight and high fluid intake. Parents should consult with their infant's doctor and the formula manufacturer for the most appropriate water to use in formula preparation. For more information on infant formula and fluoride, refer to CDC at www.cdc.gov and ADA at www.ada.org.

About Lead in Drinking Water

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.

CWA 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 two minutes before using water for drinking or cooking.

If you are concerned about lead in your drinking 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 at 1-800-426-4791 or at www.epa.gov/safewater/lead.



Chester Water Authority's Service Area

Aston Township
Bethel Township
Birmingham Township
Brookhaven Borough
Chadds Ford Township
Chester Heights Township
Chester Township
City of Chester
Concord Township
E. Marlborough Township
E. Nottingham Township
Franklin Township
Kennett Square Borough
Kennett Township
Little Britain Township
Londonderry Township
London Grove Township
Lower Chichester Township

Lower Oxford Township
Marcus Hook Borough
Middletown Township
Nether Providence Township
New Garden Township
New London Township
Oxford Borough
Parkside Borough
Penn Township
Pennsbury Township
Thornbury Township,
Chester County
Thornbury Township,
Delaware County
Trainer Borough
Upland Borough
Upper Chichester Township
Upper Oxford Township



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WHAT DOES *THAT* MEAN?

You may not be familiar with all the terms we use in this report. Here are some definitions to help you.

< : A symbol used to designate “less than.”

AL (Action Level): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

CDC: Centers for Disease Control and Prevention.

EPA: United States Environmental Protection Agency.

gpg (grains per gallon): A measurement of water hardness often used to determine detergent requirements for dishwashers or washing machines. One grain per gallon equals 17.12 ppm (see right) of hardness.

MCL (Maximum Contaminant Level): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs (see below) as feasible using the best available treatment technology.

MCLG (Maximum Contaminant Level Goal): 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.

MRDL (Maximum Residual Disinfection Level): The highest level of disinfectant that is allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MRDLG (Maximum Residual Disinfection Level Goal): 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 contaminant.

Minimum Residual Disinfectant Level: The minimum level of residual disinfectant required at the entry point to the distribution system.

NTU (nephelometric turbidity unit): A measure of water clarity.

PADEP: Pennsylvania Department of Environmental Protection.

ppb (part per billion): One microgram per liter, or one in a billion. This is the relative equivalent of one penny in ten million dollars or one inch in 15,783 miles.

ppm (part per million): One milligram per liter, or one in a million. This is the relative equivalent of one dollar in a million dollars or one inch in 15.8 miles.

source water: Water in its natural state, before it has received any treatment. Once the water has been treated and is ready to deliver to customers, it is known as finished water.

TT (treatment technique): A required process intended to reduce the level of a contaminant in drinking water.

watershed: The land area drained by a stream or river. Any rain or snow that falls in the watershed of a stream flows to that stream, traveling to the stream over land or through the ground.

If You Would Like More Information

If you would like more information regarding Chester Water Authority, please contact our Customer Service Department at 610-876-8181 or 800-793-2323, or visit our Web site at www.chesterwater.com.

If you have a specific concern or question regarding water quality, you may contact the CWA Water Quality Laboratory during normal business hours at 800-217-7880.

Meetings of the Chester Water Authority Board of Directors are held the third Thursday of every month at 2:00 pm at Neumann University, One Neumann Drive, Aston, PA 19014. Notice of any changes will be made publicly available prior to the meeting. Please call 610-876-8185 extension 1216 to find out exact location on the Neumann campus.

Information about the Octoraro Watershed Association may be obtained directly from the Association at 517 Pine Grove Road, Nottingham, PA 19362, or by calling 717-529-2132.



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REGULATED SUBSTANCES DETECTED

At our Octoraro Treatment Plant, we are committed to producing clean, quality water for you. In 2013, we conducted more than 65,000 analyses of the drinking water we supply. We tested for 162 substances. The EPA has established standards (MCLs and MRDLs) for 78 of these substances. The EPA requires testing for another 46 substances.

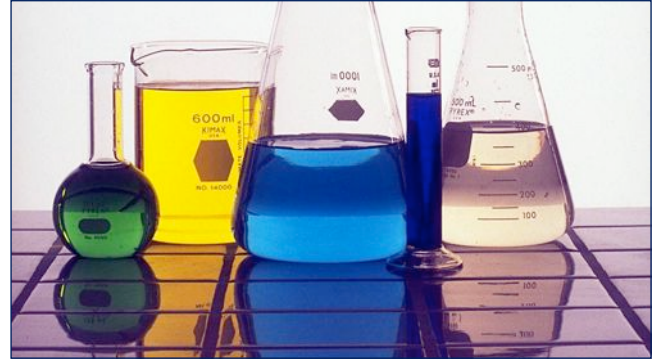
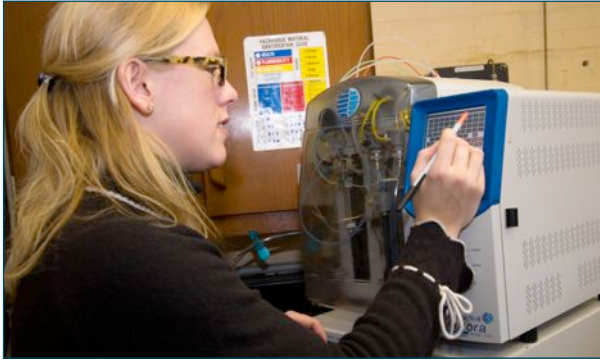
Substance	MCL	MCLG	CWA Water	Unit	Source of Substance
Lead	AL=15	0	8.1	ppb	Home water pipes
<p>We tested the water in 56 homes, after it had been standing for six hours without being used. Of these, 25 homes were supplied by lead services and 31 homes had copper piping with lead solder connections. There were no homes with a lead level greater than 15 ppb. All participants in this survey were notified in writing by the Authority of their respective results.</p>					
Copper	AL=1.3	1.3	0.26	ppm	Home water pipes

Substance	Testing Period	MCL	MCLG	CWA Average	CWA Values Detected	Unit	Source of Substance
Turbidity	01/2013 to 12/2013	TT	TT	0.03	0.02-0.08	NTU	Source water contaminant from soil runoff
<p>In 2013, no single turbidity result exceeded 1 NTU and 100% of all turbidity results were less than 0.3 NTU, achieving the treatment technique requirement for turbidity removal.</p> <p>As a member of the Partnership for Safe Drinking Water, our treatment goal is to achieve 0.1 NTU or less. We monitor turbidity because it is a good indicator of the effectiveness of our filtration system.</p>							
Fluoride	01/2013 to 12/2013	2	2	0.64	0.50-0.94	ppm	Water additive that promotes strong teeth
Nitrate	01/2013 to 12/2013	10	10	4.8	1.0-8.4	ppm	Source water contaminant from fertilizer use
<p>Nitrate in drinking water at levels above 10 ppm is a health risk for infants less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods because of rainfall or agricultural activity. If you are caring for an infant, you should ask advice from your health care provider.</p>							
Total Organic Carbon	01/2013 to 12/2013	TT	TT	1.6	1.2-2.0	ppm	Naturally present in the environment
<p>Required removal of total organic carbon (TOC) varies with source water quality. In 2013, the minimum required TOC removal varied from 25%-45%. CWA achieved 38%-69% removal, meeting the treatment requirements for TOC removal.</p>							
Chloramines	01/2013 to 12/2013	MRDL of 4	MRDLG of 4	1.75	1.31-2.2	ppm	Water additive used to control microbes
	01/2013 to 12/2013	Minimum Disinfectant Residual required 0.2		2.66	2.0-2.9		
<p>monthly average of water system samples</p> <p>daily minimum leaving Octoraro Treatment Plant</p>							
Total Trihalomethanes	11/2012 to 12/2013	an average of 80		55.3	29.4-63.9	ppb	By-product of drinking water chlorination
Haloacetic Acids (HAA5)	10/2012 to 12/2013	an average of 60		42.1	12.0-102	ppb	By-product of drinking water chlorination
Barium	04/2013	2	2		0.02	ppm	Erosion of natural deposits
Atrazine	04/2013 to 07/2013	3	0		<0.5 - 0.73	ppb	Runoff from herbicide used on row crops
Total Coliform	01/2013 to 12/2013	5% of monthly samples are positive	0		0-0.8	%	Naturally present in the environment



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OTHER 2013 WATER QUALITY DATA

The data below is for all water pumped from the Chester Water Authority Octoraro Treatment Plant during 2013.

Substance	CWA Average	CWA Values Detected	Unit
Alkalinity, total	51	33-72	ppm <i>(as calcium carbonate)</i>
Aluminum	20	<10-40	ppb
Ammonia	0.54	0.21-0.76	ppm as Nitrogen
Chloride	34	25-44	ppm
Conductivity	324	269-374	µmhos/cm @ 25°C
Hardness, total	6.7	5.3-8.0	gpg <i>(as calcium carbonate)</i>
Iron, total	10	<10-106	ppb
Manganese	17	<10-90	ppb
pH	7.9	7.7-8.2	
Phosphorus, total	28	<1-92	ppb
Silica	4.8	2.0-7.4	ppm
Sodium	10.3	6.9-14.8	ppm
Solids, total	219	175-257	ppm
Sulfate	30.9	16.1-53.5	ppm

Cryptosporidium Testing

Cryptosporidium is a microbial organism found in rivers and streams throughout the U.S. In 2013, we tested for Cryptosporidium in our Octoraro and Susquehanna source waters and in our finished drinking water. We did find it in our Octoraro source, but did not find it in our Susquehanna source or finished water.

Testing methods do not allow us to determine if the organisms found are dead or if they are capable of causing disease. Our treatment processes include filtration that will remove Cryptosporidium, but this does not guarantee that 100 percent of the organisms will be removed.

Cryptosporidium must be ingested to cause disease, and it may be spread by means other than drinking water. Ingestion of Cryptosporidium may cause an abdominal infection with symptoms including nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people are at greater risk of developing life-threatening illnesses. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection.

SUBSTANCES NOT DETECTED

In 2013, **none** of the following Synthetic Organic Contaminants, Volatile Organic Contaminants, Microbiological Contaminants, or Inorganic Contaminants were detected in water supplied by Chester Water Authority.

Synthetic Organic Contaminants Including Pesticides and Herbicides

- Alachlor
- Aldicarb
- Aldicarb sulfone
- Aldicarb sulfoxide
- Benzo(a)pyrene
- Carbaryl
- Carbofuran
- Chlordane
- 2,4-D
- Dalapon
- Dibromochloropropane (DBCP)
- Dicamba
- Di(2-ethylhexyl)adipate
- Di(2-ethylhexyl)phthalate
- Dinoseb
- Diquat
- Endothall
- Endrin
- Ethylene dibromide (EDB)
- Glyphosate
- 2,3,7,8-TCDD (Dioxin)
- Heptachlor
- Heptachlor epoxide
- Hexachlorobenzene (HCB)
- Hexachlorocyclopentadiene
- 3-Hydroxycarbofuran
- Lindane
- Methomyl
- Methoxychlor
- Metolachlor
- Metribuzin
- Oxamyl (vydate)
- PCBS
- Pentachlorophenol (PCP)
- Picloram
- Simazine
- Toxaphene
- 2,4,5-TP (silvex)

Volatile Organic Contaminants

- Benzene
- Carbon tetrachloride
- Chlorobenzene
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethylene
- cis-1,2-Dichloroethylene
- trans-1,2-Dichloroethylene
- Dichloromethane
- 1,2-Dichloropropane
- Ethylbenzene
- Methyl-tert-butyl-ether (MTBE)
- Styrene
- Tetrachloroethylene
- Toluene
- 1,2,4-Trichlorobenzene
- 1,1,1-Trichloroethane
- 1,1,2-Trichloroethane
- Trichloroethylene
- Vinyl chloride
- Xylenes, total

Microbiological Contaminants

- Cryptosporidium
- Giardia
- Fecal Coliform and E. coli

Radiological Contaminants

- Gross Alpha
- Gross Beta
- Radium-226
- Radium-228

Inorganic Contaminants

- Antimony
- Arsenic
- Asbestos
- Beryllium
- Cadmium
- Chromium
- Cyanide
- Mercury
- Nickel
- Selenium
- Thallium



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UNREGULATED CONTAMINANT MONITORING

Unregulated contaminants are those for which EPA has not yet established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted. In 2009, CWA participated in a nationwide monitoring effort conducted by EPA. The 2009 results presented below are the most recent data available for these contaminants.

Substances Detected in 2009 Monitoring

Substance	Testing Period	CWA Average	CWA Values Detected	Unit	Sample Location	Source of Substance
Metolachlor ESA	01/2009 to 12/2009	0.38	<1.0-1.5	ppb	treatment plant	Degradation of metolachlor. Metolachlor is a broad-spectrum herbicide widely used in crops.
N-nitroso-dimethylamine (NDMA)	01/2009 to 12/2009	0.0027	<0.002-0.0059	ppb	distribution system	

Source of Substance: Nitrosamines can form spontaneously by reaction of precursor amines with nitrosating agents (nitrate and related compounds), or by action of nitrate-reducing bacteria. Foods such as bacon and malt beverages can contain nitrosamines; there is also evidence that they form in the upper GI tract.

Substances Not Detected in 2009 Monitoring

Unregulated Contaminants not detected at sample location at treatment plant

acetochlor; acetochlor ESA; acetochlor OA;
 alachlor; alachlor ESA, alachlor OA;
 metolachlor; metolachlor OA;
 dimethoate; terbufos sulfone;
 1,3-dinitrobenzene; 2,4,6-trinitrotoluene;
 2,2',4,4',5,5'-hexabromobiphenyl (245-HBB)
 2,2',4,4',6-pentabromodiphenyl ether (BDE-100)
 2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153)
 2,2',4,4'-tetrabromodiphenyl ether (BDE-47)
 2,2',4,4',5-pentabromodiphenyl ether (BDE-99)
 hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)
 N-nitroso-di-n-butylamine (NDBA)
 N-nitroso-diethylamine (NDEA)
 N-nitroso-di-n-propylamine (NDPA)
 N-nitroso-methylethylamine (NMEA)
 N-nitroso-pyrrolidine (NPYR)
 N-nitroso-dimethylamine (NDMA)

Unregulated Contaminants not detected at sample location in distribution system

N-nitroso-di-n-butylamine (NDBA)
 N-nitroso-diethylamine (NDEA)
 N-nitroso-di-n-propylamine (NDPA)
 N-nitroso-methylethylamine (NMEA)
 N-nitroso-pyrrolidine (NPYR)

UNREGULATED CONTAMINANT MONITORING

In 2013, CWA again participated in another nationwide monitoring effort conducted by EPA that is continuing into 2014.

Substances Detected in 2013 Monitoring						
Substance	Testing Period	CWA Average	CWA Values Detected	Unit	Sample Location	Source of Substance
Chromium-6	09/2013 to 12/2013	0.11	0.08-0.14	ppb	treatment plant	Naturally occurring element; used in making steel and other alloys; chromium-3 or -6 forms are used for chrome plating, dyes and pigments, leather tanning, and wood preservation
Chromium-6	09/2013 to 12/2013	0.11	0.06-0.16	ppb	distribution system	
Strontium	09/2013 to 12/2013	110	110	ppb	treatment plant	Naturally occurring element
Strontium	09/2013 to 12/2013	115	110-120	ppb	distribution system	
Vanadium	09/2013 to 12/2013	0.015	<0.2-0.3	ppb	treatment plant	Naturally occurring elemental metal
Vanadium	09/2013 to 12/2013	0.015	<0.2-0.3	ppb	distribution system	Naturally occurring elemental metal
Testosterone	09/2013 to 12/2013	0.0001	<0.0001-0.0002	ppb	treatment plant	Androgenic steroid naturally produced in the human body; and used in pharmaceuticals

Substances Not Detected in 2013 Monitoring

<i>Unregulated Contaminants not detected at sample location at treatment plant</i>	
4-androstene-3,17-dione	17-beta-estradiol
1,3-butadiene	estriol
bromochloromethane	estrone
bromomethane	17-alpha-ethynylestradiol
chlorate	molybdenum
chlorodifluoromethane	perfluorooctanesulfonic acid (PFOS)
chloromethane	perfluorooctanoic acid (PFOA)
chromium (total)	perfluorononanoic acid (PFNA)
cobalt	perfluorohexanesulfonic acid (PFHxS)
1,1-dichloroethane	perfluoroheptanoic acid (PFHpA)
1,4-dioxane	perfluorobutanesulfonic acid (PFBS)
equilin	1,2,3- trichloropropane

<i>Unregulated Contaminants not detected at sample location in distribution system</i>
chlorate
chromium (total)
cobalt
molybdenum



415 Welsh Street • Chester, PA 19013 Web: www.chesterwater.com
 Walk-in: 8:00 AM to 5:00 PM • Monday through Friday
 Telephone: 8:00 AM to 7:00 PM • Telephone: 610-876-8181 • 800-793-2323

Emergencies:
 24 HOURS PER DAY
 7 DAYS PER WEEK
 Telephone: 610-876-8181

Chester Water Authority: Over a Century of Service to Chester and Delaware Counties



In 1868, South Ward Water Works responded to a need for a safe, clean water supply in the Chester area by providing a capacity of 800,000 gallons per day to 67 customers in its first year of operation.

In 1939, the Chester Municipal Authority was incorporated with a five-member Board of Directors. The Authority purchased the Chester Water Service Company, consisting of the waterworks, 141 miles of water main, and 597 fire hydrants. In 1965, the Authority became Chester Water Authority (CWA) and has had a board of nine members since 2012.

CWA Supports Our Communities' Growth

In the late 1940s, the Authority began planning the first major capital project to serve its growing communities: construction of the Octoraro Treatment Plant and Reservoir in rural Oxford, PA, and a 45-mile-long transmission pipeline. On Thanksgiving Day, 1951, the ribbon was cut and the Authority began to supply customers with water from the Octoraro Treatment Plant, which had a capacity of 18 million gallons per day (MGD).

CWA's Service Areas Today

Today, Chester Water Authority delivers public water supply to 42,774 active residential, commercial, and industrial customers in the City of Chester, western Delaware County, and southern Chester County, as well as to water utilities in Pennsylvania and Delaware. We directly or indirectly serve a population of approximately 200,000 persons.

CWA Earns "Excellence in Water Treatment" Recognition

In 2013, Chester Water Authority completed the fourth phase of the Partnership for Safe Water Treatment Program. Phase IV completion signifies a "fully optimized system," earning recognition for "Excellence in Water Treatment." CWA is only the second water treatment plant in Pennsylvania to complete Phase IV of the voluntary assessment program; only 12 water treatment plants in the United States have attained Phase IV status. CWA received the "Excellence in Water Treatment Award" from the Partnership in 2013.

A Partnership member since 1996, CWA's Octoraro Treatment Plant has made a commitment to continuous improvement over the past 16 years, earning AWWA's Five- and Ten-Year Directors Awards and a President's Award over the years for consistent high-quality performance. Although Phase IV represents the highest level of achievement, CWA remains committed to sustaining Phase IV voluntary standards, including submittal of a detailed annual report to the Partnership.

The Partnership for Safe Water comprises the AWWA, Association of Metropolitan Water Agencies, Association of State Drinking Water Administrators, United States Environmental Protection Agency, National Association of Water Companies, and the Water Research Foundation, along with more than 200 utilities and 400 water treatment plants across the nation. For more information, please visit their website at <http://www.awwa.org/resources-tools/water-utility-management/partnership-for-safe-water.aspx>.