

WHERE DOES YOUR WATER COME FROM?

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. In order to ensure that tap water is safe to drink, EPA prescribes regulations which limit the amount of certain contaminants in drinking water provided by public water systems. However, the presence of some contaminants does not necessarily indicate a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at (800) 426-4791.

The water source for the City of Easton surrounding service area is the Delaware River. The City of Easton Water Treatment Plant is a 10 MGD treatment facility originally built in 1932. Major improvements and plant upgrades were completed in 1981 and are continuing presently to meet new Surface Water Treatment Regulations that will come into effect in 2008.

Under Section 1453 of the U.S. Environmental Protection Agency's 1996 Safe Drinking Water Act, states must evaluate all drinking water sources that serve public systems and provide a mechanism for development of local protection programs. In accordance with the Pennsylvania Department of Environmental Protection's Source Water Assessment and Protection Program (SWAP), a source water assessment has been completed and the City of Easton's water treatment plant has been evaluated. The potential sources of contamination for this section of this surface water include both point and non-point sources of pollution. The Delaware River Basin Commission, USGS and USEPA are resources for information on levels of flow, water quality, and planning issues for the Delaware River and its basin. SWAP programs of both Pennsylvania and New Jersey affect the surface water source for the City of Easton. The complete assessment is available for public review at the regional DEP office. With proper credentials and purpose, anyone can request a file review of the report. Any questions regarding this program or assessment should be addressed to Joe Hebelka, DEP Central Office (717) 772-4014.

CONTAMINANTS THAT MAY BE PRESENT IN SOME SOURCE WATER INCLUDE:

Inorganic Contaminants — Salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas productions, mining or farming.

Organic Chemical Contamination — including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

Radioactive Contaminants — which can be naturallyoccurring or be the result of oil and gas production and mining activities.

Microbial Contaminants — Such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

Pesticides and Herbicides — which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.

SPECIAL WARNING:

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.

Special Consideration Regarding Children, Pregnant Women, Nursing Mothers and Others:

Children may be more susceptible than adults to contaminants that may be present in drinking water due to lower body weight. For this reason, reproductive or developmental effects are used for calculating a drinking water standard if these effects occur at lower levels than other health effects of concern. If there is insufficient toxicity information for a chemical (for example, lack of data on reproductive or developmental effects), an extra uncertainty factor may be incorporated into the calculation of the drinking water standard, thus making the standard more stringent to account for additional uncertainties regarding these effects. In cases of lead and nitrate concentrations, effects on infants and children are the health endpoints upon which the standards are based.

The Easton Suburban Water Authority (ESWA) is pleased to provide this Water Quality Report to meet Consumer Confidence Reporting requirements mandated by the Safe Drinking Water Act (SDWA). The purpose of this report is to provide all system customers with important information regarding the quality of their drinking water.

ESWA remains firmly committed to providing our customers with safe, high quality drinking water at all times. Any questions regarding our operation may be directed to (610) 258-7181.

During the 2006 reporting year, ESWA conducted thousands of laboratory tests for drinking water contaminants. We are pleased to report that there were no contaminants detected above mandated regulatory limits. In addition to results of laboratory testing, this report also includes details regarding the source of our drinking water and how it compares to Environmental Protection Agency (EPA) and state standards. For more information about the drinking water, please call the Authority at (610) 258-7181 or fax (610) 258-7780.



The Board of
Directors of the
Easton Suburban
Water Authority
meets on the 2nd
Monday of each
month at 3 p.m.
at the Authority
office located
at 3700 Hartley
Ave., Palmer
Twsp., Easton, PA.

Please feel free to attend and participate in these meetings.



Easton Suburban Water Authority

is committed to providing quality water and value-added services to our customers at an affordable rate. We will ensure our efforts by implementing sound business practices, maintaining a well trained professional workforce, utilizing advanced technologies and meeting the needs and choices of our customers. If you have any questions or concerns about the quality of your water or the service we provide, please contact us at **610-258-7181.**

You can also visit us online at www.eswater.net.

VIOLATIONS

As required by the Safe Drinking Water Act, water samples were collected and analyzed throughout 2006. All samples were found to be within the water quality parameters set forth by the Environmental Protection Agency and the Pennsylvania Department of Environmental Protection. *At no time was the quality of water ever an issue.*

However, the independent laboratories involved in submitting the results to the regulatory agencies did not do so in as timely a manner as was required. Specifically, test results for TTHM/HAA, Bacteriological and Chlorine Residual were not submitted to PADEP by the 10th day of the following month in which the samples were collected and analyzed.

This tardiness of filing was documented as an Administrative Violation, even though *the quality of the drinking water was* **NOT compromised in any way** and was not ever an issue in this matter.

ESWA is required to notify the public of any and all violations, including administrative issues. All sampling, testing and subsequent results were filed within applicable regulatory limits and steps have been taken to prevent administrative violations from occurring in the future.

		LEGEND					
AL	Action Level	The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.					
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs 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.					
NTU	Nephelometric Turbidity Units	A measure of water clarity.					
pCi/l	Picoruries per liter	A measure of radioactivity.					
ppm	Parts per million or milligrams per liter (mg/L)	One part per million equals about: 1 minute in 2 years or one inch in 16 miles					
ppb	Parts per billion or micrograms per liter (ug/L)	One part per billion equals about: 1 second in 32 years or 1 inch in 16,000 miles					
TT	Treatment Technique	A required process intended to reduce the level of contaminant in drinking water.					
MRDL	Maximum Residual Disinfectant Level	Highest level of disinfectant allowed in drinking water. There is convincing evidence that additional disinfectant is necessary for control of microbial contaminants.					
MRDLG	Maximum Residual Disinfectant 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 contamination.					

Name and a	MCLG or	MCL, TT	Your		nge	Sample	Violeties	Tunical Course
ontaminants	MRDLG	or MRDL	Water	Low	High	Date	Violation	Typical Source
isinfectants & Disinfection By-Products There is convincing evidence that addition of Results measured and documented by the Col *Samples were taken by Easton Suburban W	ity of Easton Wa	ter Treatment Pla	nt.					
Chlorine (ppm)	4	4	1.9	0.8	1.9	2006	No	Water additive used to control microbes.
*Haloacetic Acids (HAA5) (ppb)	NA	60	31.6	25.2	31.6	2006	No	By-product of drinking water chlorination
*Total Trihalomethanes (TTHMs) (ppb)	NA	80	71.6	27.1	71.6	2006	No	By-product of drinking water disinfection
norganic Contaminants Results measured and documented by the Cit	y of Easton Wate	er Treatment Plan	nt.					
luoride (ppm)	4	2	1.7	0.6	1.7	2006	No	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
litrate (measured as Nitrogen) (ppm)	10	10	<0.20	well below	al result was the levels for Nitrate.	2006	No	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Aicrobiological Contaminants Faston Suburban Water Authority analyzes 60 No samples can test positive for fecal coliform **Results measured and documented by the ecal coliform E. coli (positive samples)	m or E. Coli bacte City of Easton V 0	eria. Vater Treatment I O	Plant.	NA	NA	2006	No	Human and animal fecal waste.
otal Coliform (% positive samples/month)	0	5	0	NA	NA	2006	No	Naturally present in the environment.
**Total Organic Carbon (TOC)	0	TT=removal ratio>1.0	1.44	0.42	1.22	2006	Yes	Naturally present in the environment.

Contaminants	MCLG	AL	Your Water	Sample Date	# Samples Exceeding AL	Exceeds AL	Typical Source
Inorganic Contaminants Results measured and docum	mented by Easto	n Suburba	n Water Autl	nority.			
Copper – action level at consumer taps (ppm)	1.3	1.3	0.23	2004 Samples required every 3 years.	For copper, zero (0) out of 30 samples exceeded the AL; 0.48 ppm was the highest single value detected.	No	Corrosion of household plumbing systems; erosion of natural deposits.
Lead – action level at consumer taps (ppb)	0	15	1	2004 Samples required every 3 years.	For lead, zero (0) out of 30 samples exceeded the AL; 4 ppb was the highest single value detected.	No	Corrosion of household plumbing systems; erosion of natural deposits.

	Recommended Limits**					
Parameter	or Range	Your Water	Violation	Typical Source		
Additional Monitoring Performed by The (City of Easton			- ** Secondary Drinking Water Standards refer to		
Chloride	250 ppm	14.7 ppm	No	recommended limits on compounds that might pose a		
Color	15 Color Units	<5 Color Units	No	nuisance to the customer. These compounds affect		
Corrosivity	-1 Langelier Index to +1 Langelier Index	-1.64	No	aesthetic quality (appearance, taste and odor) but do		
Fluoride	2 ppm	0.8 ppm	No	not pose a health risk.		
Foaming Agents (ABS/LAS)	500 ppb	25 ppb	No			
Hardness	50 ppm to 250 ppm	44 ppm	No			
Iron	300 ppb	17 ppb	No			
Manganese	50 ppb	7 ppb	No			
Odor	3 Threshold Odor Number (TON)	<1	No			
pH	6.0 to 8.5	7.06	No			
Sulfate	250 ppm	18.7 ppm	No			
Total Dissolved Solids	500 ppm	96 ppm	No			

		M	laximum Detected	Range	Detected		
Parameter	MCLG	MCL, TT or MRDL	by City of Easton	Low	High	Typical Source	
Turbidity							
		r. Turbidity is monitored because it is a					
High turbidity can hinder th	ne effectiveness of disinf	ectants. Samples are monitored contin	nuously by the City of Ea	ston.			
Turbidity (NTU)	0	TT=1	0.18	0.06	0.18	Soil run off.	
		T≥ 95% of monthly samples <0.3 NTU	100%				
Radionuclides							
Samples taken by the City of	of Easton in the 2005-201	3 monitoring period.					
Alpha Emitters	15 pCi/l	15 pCi/I	<2.45 pCi/l	NA	NA	Erosion of natural deposits.	
Combined Radium	5 pCi/I	5 pCi/I	0.03 pCi/l	NA	NA	Erosion of natural deposits.	

UNREGULATED CONTAMINANTS

The City of Easton conducted monitoring for the List 1 and 2 Unregulated Contaminants as required by the EPA in 2006. No detections of any unregulated contaminant were made. Unregulated contaminants are those for which the EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist the EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

SYNTHETIC ORGANIC COMPOUNDS

The City of Easton performed tests during the 2003-2006 compliance period for Synthetic Organic Compounds. No synthetic Organic Compounds were detected in the treated water supply. The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently.