

rth Wales Water Authority) West Walnut Street), Box 1339

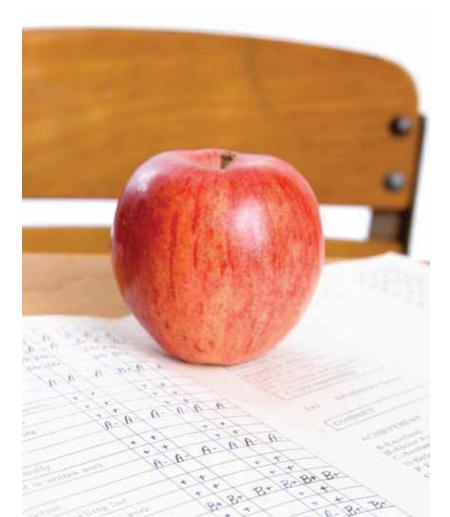
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NORTH WALES WATER AUTHORITY

WATER QUALITY REPORT 2011



WHAT'S INSIDE...

This report contains important information about your drinking water. If you do not understand it, please have someone translate it for you.

Este informe contiene información muy importante sobre su agua beber. Tradúzcalo o hable con agulen que lo entienda bien.

This report includes information about where your water comes from, what it contains and how it compares with the standards mandated by the U.S. Environmental Protection Agency and the Pennsylvania Department of Environmental Protection. You are being provided a copy of this report in compliance with the Safe Drinking Water Act. Landlords, businesses, schools and other property owners are strongly encouraged to share this water quality report with their tenants and employees.

For free additional copies or more information about your water and this report, call the North Wales Water Authority at 215-699-4836.

OUR COMMITMENT TO QUALITY

2011 marked the 60th anniversary of the North Wales Water Authority. Much has changed over the years in the way we do business, but our emphasis on providing the finest quality water has never changed. When we became an Authority in 1951, we had only 2,700 customers served by three active wells. Our staff of three employees included a part-time manager, part-time bookkeeper and full-time pump/maintenance/meter reader.

For four decades we relied exclusively on wells or groundwater supplies to meet our customers' needs. However, as a result of a "drought of record" in the 1960's and explosive commercial and residential development throughout our service area in the 1970-80's, we recognized that our groundwater supplies were being depleted and a more reliable supply of surface water needed to be found. In 1994, our Forest Park Water treatment plant was completed.

Today, we have over 25,000 customers and provide bulk water to neighboring communities. Forest Park Water is among the finest "state-of-the-art" facilities in the United States. Its most notable feature is its microfiltration process using membranes, a filtration technology which will enable us to meet all state and federal Safe Drinking Water Act requirements well into the future.

YOUR WATER SOURCE

Currently, 93% of our water comes from the Delaware River and 7% comes from groundwater sources. The water coming from the Delaware River is treated at Forest Park Water, a water treatment facility that is jointly owned by North Wales and North Penn Water Authorities. Forest Park Water consists of a 96 million gallon per day raw water pumping station on the Delaware River at Point Pleasant and transmission mains which discharge the Delaware River water into the North Branch of the Neshaminy Creek. Once discharged, the water flows down the Neshaminy Creek through Lake Galena. The water released from Lake Galena flows downstream to the Forest Park Water treatment plant located in Chalfont, Pennsylvania. From the treatment plant, the North Wales and North Penn Water Authorities individually take their share of the treated supply for distribution within their respective service areas.

YOUR WATER QUALITY

Since the Authority operates its own distribution system, as well as being joint owner of the Forest Park Water (FPW) facilities, sampling under the Safe Drinking Water Act (SDWA) is conducted independently by both utilities in accordance with appropriate requirements. This ensures that the Authority takes all distribution samples for which it is responsible and Forest Park Water takes all samples related to a surface water treatment facility. To some extent this arrangement results in duplication of testing, but ensures an added measure of guality control. Forest Park Water is among the finest "state-of-the-art" facilities in the United States. In 2007 FPW became one of the first and largest water treatments plants to complete a complex conversion from traditional media filters to technologically advanced membrane filtration. Membranes provide a more effective barrier against the passage of potentially harmful pathogens, such as giardia and cryptosporidium. The aesthetic quality of the water is enhanced by ozonation followed by flow through Granular Activated Carbon (GAC) media. As a result naturally occurring organic compounds are destroyed by ozone oxidation and removed by carbon adsorption. This treatment process ensures that our customers are receiving the finest quality drinking water available today from any surface water treatment plant in the United States.

MONITORING YOUR WATER

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

The North Wales Water Authority routinely monitors for constituents in your drinking water in accordance with federal and state laws. The tables in this report show the results of our monitoring for the period of January 1st to December 31st, 2011. All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some constituents. It's important to remember that the presence of these constituents does not necessarily pose a health risk.

Every year the Authority receives a new set of monitoring requirements from the Pennsylvania Department of Environmental Protection (DEP) based on our previous results. Individual and groups of contaminants may be required to be monitored continually, daily, weekly, monthly, quarterly, annually, etc. Currently, the Authority monitors for over 100 contaminants at ten entry points and throughout the distribution system. For a complete listing of all the contaminants that we test for, please visit our website at www.nwwater.com.

BLE OF D	0048 (Unless	otherwi	se noted, a		LOT C	M	CL	Major Sou	cces in Drinking		
VA PWS ID# 11			Level Detected	Range	N	ACLO			_			
gulated Contaminanto							presence	of coliform a in 5% of	Naturally	present in the envir	onment	
crobial Contaminants			0	N/A		0	month	y samples				
tal Coliform Bacteria		No						sample and mple are total	Huma	Human and animal fecal waste		
				N/A		0	coliform p	ositive, and our				
ecal Coliform E.coli Bacteria		No	0				E. c	oh positive		Soil runoff		
			0.032	0.02-0.	.05	N/A		TT	Naturally present in the o		environment	
Furbidity (NTU)		No		17.6.67	7.3%	N/A		TT	1077	otosporidium was p	erformed	
Furbidity (NTU) Fotal Organic Carl (percent removal) All samples collected e monthly throughout 2	oon	No	N/A	a lun rem	oval o	of 35-50%	Raw water	monitoring for Gia	12 samples.			
(percent removal)	xceeded th	e required	Total Organ	nic Carbon ten it of 12 samples	and C	Cryptospo	ridium was c		Gur	osion of household	l plumbing;	
		ia was uco	court					AL=1.3		DOOW Comm WOOD D	rescrvation	
Inorganic Contaminance			0.39	0.570					Co	rosion of househo.	deposits	
Copper ¹ (ppm) (6/2010) Lead ¹ (ppb) (6/2010) Nitrate (as Nitrogen) (ppm) Barium (ppm)		No			0-0.0027			AL=15		erosion of mature	eaching from septic	
		N	0	0,			0	10	ta	erosion of natural dependence of the second		
			lo 2	2.65 0.07	65 0.071-4.					Discharge of drilling wastes; discharge from metal foundries; erosion of natural deposits		
		+		.0227	097 N/A		2	2	metal	industrial processes,		
		1	No U	.0227			100	100	Ву-р	erosion of the discharge from		
			No	0.8	0.8 N/A		2		Eros	Erosion of natural deposits, used as a luminum and fertilizer factories.		
Nickel (ppb)		+	No	0.092	0-0.0)78	2					
Flouride			140					15		Erosion of na	tural deposits	
Radioactive Contaminants Gross Alpha (adjusted) (pCi/L)		unts	No	5.06	5.06 0-9.4		0			Erosion of natural deposits		
		No		0.75	0.75 0.44-7		0	30		Erosion of natural deposits		
Combined U	Jranium	(ug/L)	No	2.75		1.05	0	5		Erosion of a		
		_	No	1.44	0-	-1.95					used for disinfection	
Combined	Rauluin (ucts					4^2	4^3		Water additive	used for	
Disinfection By-Produc Chlorine residual (mg		ng/L) No		0.439	0.10-1.28			80		By-products of dri	drinking water disinfection	
			No	22.52	3.	.13-60.5	0			By-products of drinking water disinfection		
Total Trih (TTHM) (J	alometha ppb)	Tanes 140			0.0-19.0		0	60		By products of drinking water		
Haloacet	ic Acids		No	7.00	-		0	10		By-products of and o		
(HAA5) (ppb)			No	1.5		0.0-2.4					rbicides used on new croj	
Bromate	(ppb)	Contat	inants incl	luding Pesticion 0.025	des 8	z Herbici	des 0	10)	Runoff from he	rbicides as	
										outh percentile		
Atrazin	e (ppb)						1 +	table. This table	represents the	level detected in exceeded the Actio	on Level (AL).	
Footnotes		1	of lead and	copper in the s	ource	water are and Cop	per Rule.	None of the home	s monitoreu			
		No 0.025 0.001 of lead and copper in the source water are non-detectable. This table reproduces with the US-EPA Lead and Copper Rule. None of the homes not source water are non-detectable. cetant Level Goal (MRDLG) Amount and the source water are non-detectable. None of the homes not source water are non-detectable.							Range			
			n accordance with the Cover (MRDLG) Disinfectant Level (MRDL)						Lev	0.0086	0-0.0086	
³ Maxim	um Resiu	Gentam	inants									
Unre	egulated	Contain	(NIDEA)	(ppb) (2010-2	2011)				-	1 manufactur	e of rubber, leather and of nitrate-reducing bacte	

TABLE DEFINITIONS

Our water quality table contains terms and abbreviations you might not be familiar with. The following definitions may help you better understand the table.

AL - Action Level - the concentration of a contaminant which, if exceeded, triggers treatment or other requirements which 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.

Nephelometric Turbidity Unit (NTU) - a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

Parts per million (ppm) or Milligrams per liter (mg/L) - one part per million corresponds to one minute in two years or a single penny in \$10,000.

Parts per billion (ppb) or Micrograms per liter (ug/L) - one part per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

Picocuries per liter (pCi/L) - a measure of the radioactivity in water.

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

SUBSTANCES EXPECTED **TO BE IN DRINKING WATER:**

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals. In addition, water can pick up substances resulting from the presence of animals or from human activity. Substances that may be present in source water include:

- Microphiaminants, such as viruses and bacteria. which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inocoatticninants, such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides: which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Ochanical 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.
- Radiocoutiveninants, which can be naturallyoccurring or the result of oil and gas production and mining activities.

However, water treatment significantly reduces the level of these substances in drinking water.

SHOULD I TAKE SPECIAL PRECAUTIONS?

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. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at: 1-800-426-4791 or visit the EPA Web site: www.epa.gov/safewater/wot/index.html.

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. North Wales Water Authority 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 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

CUSTOMERS WITH SPECIAL NEEDS

The North Wales Water Authority maintains a list of customers who have an essential need for an uninterrupted supply of water (such as in dialysis treatments). If you have health conditions that require a continual supply of water in your home, please contact our Water Quality Department at 215-699-4836.

