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NPWA water meets or exceeds all State and Federal Safe Drinking Water Act standards.

2013

ANNUAL DRINKING WATER QUALITY REPORT

SELLERSVILLE

PWSID#1460034

This report is being mailed to you as a requirement of the federal Safe Drinking Water Act.

> "A dedicated, professional workforce committed to providing the community with a safe, reliable, and economical water supply."

PEOPLE WITH SPECIAL HEALTH CONCERNS

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 Water Hotline at 1-800-426-4791 or visiting their can be particularly at risk from infections. These people

should seek advice about drinking water from their health care providers. 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 EPA's Sate Drinking website at www.epa.gov/safewater.

HEALTH EFFECTS INFORMATION

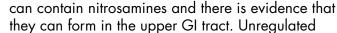
While your drinking water meets EPA's standard for arsenic, it does contain low levels of arsenic. EPA's

standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. EPA continues to research the health effects of low levels of arsenic which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

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 Penn 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 EPA's Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

In our unregulated contaminant assessment monitoring performed July 2009 - April 2010, n-nitrosodiethylamine (NDEA) was detected in 1 out of 4 samples collected at the Forest Park Water Treatment Plant. Nitrosamines can form as intermediates and byproducts in chemical synthesis and manufacture of rubber, leather, and plastics. Foods such as bacon and malt beverages



contaminant monitoring helps EPA to determine where certain contaminants occur and whether it needs to regulate those contaminants. The next round of unregulated contaminant assessment monitoring (UCMR 3) began at the Forest Park Water Treatment Plant in February 2014 and will continue through 2015. Monitoring at NPWA wells will begin in January 2015. If you would like to obtain a copy of the results prior to the mailing of our 2014 Annual Water Quality Report, please contact Marianne Morgan, Community Relations

Coordinator, at (215) 855-3617.

Giardia and Cryptosporidium are microbial pathogens found in surface water throughout the U.S. Monitoring of our source water (before treatment) at Forest Park Water (FPW) indicated the presence of Giardia in 1 out of 11 samples collected. Cryptosporidium was not detected in any of the 11 samples collected. FPW treatment processes are designed to remove or inactivate Giardia and Cryptosporidium cysts with a high level of certainty. Current available test methods do not allow us to determine if the organisms are dead or if they are capable of causing disease. Symptoms of infection include 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 illness. NPWA encourages immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. Giardia and Cryptosporidium must be ingested to cause disease, and it may be spread through means other than drinking water.



EDUCATIONAL INFORMATION

The sources of drinking water (both tap water and bottled • Radioactive contaminants, which can be naturallywater) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the ground, it dissolves naturallyoccurring 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 be naturally-occurring or 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.

occurring or be the result of oil and gas production and mining activities.

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

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 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 or visiting their website at www.epa.gov/safewater.

Below is a list of contaminants which NPWA monitored for in 2013 but DID NOT DETECT:

Inorganic Contaminants

Asbestos Mercury Nickel Antimony Beryllium **Nitrite** Cadmium Selenium Cyanide Thallium

Synthetic Organic Contaminants

Di(2-ethylhexyl) phthalate Pentachlorophenol

Simazine

Regulated Volatile Organic Contaminants

Carbon tetrachloride Tetrachloroethylene 1,1,1-Trichloroethane Chlorobenzene 1,1,2-Trichloroethane Toluene 1,1-Dichloroethylene Dichloromethane trans-1,2-Dichloroethylene 1,2,4-Trichlorobenzene Ethylbenzene Vinyl Chloride 1,2-Dichloroethane o-Dichlorobenzene Xylenes, total 1,2-Dichloropropane p-Dichlorobenzene Styrene Benzene

Microbiological Contaminants Monitored in Distribution System

E. coli

Microbiological Contaminants Monitored in Source Water at Forest Park Water

Cryptosporidium

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FOREST PARK WATER

which is jointly owned by North Penn and North Wales and innovative water treatment allows Forest Park to Water Authorities, is the North Branch Neshaminy Creek. The North Branch Neshaminy Creek originates

as a small stream near Route 413 in Central Bucks County. The creek then flows into Lake Galena, which is the reservoir for Forest Park Water. Water released from Lake Galena flows down the Neshaminy Creek to where it is drawn into the Forest Park Water Treatment Plant. in Chalfont, Pennsylvania. In the summer months and times of low flow, water is pumped from the Delaware River at

Point Pleasant and diverted into the North Branch Neshaminy Creek near Gardenville, Pennsylvania. This diversion controls the level of Lake Galena for recreational purposes, ensures a sufficient drinking water supply, and maintains baseflow in the stream.

Forest Park is a state of the art water treatment facility that combines conventional treatment processes with advanced techniques, which include ozone disinfection and membrane filtration. Membrane filtration is a leading-edge technology capable of consistently producing very high quality water and ensures the plant can safely meet the more stringent federal and state water quality regulations that will be required

The source of water that is treated at Forest Park Water, in the near future. This combination of traditional produce the safest, highest quality water possible. In 2013, Forest Park Water received the prestigious Area

Wide Optimization Program (AWOP) Award presented by the PA DEP. The award recognizes outstanding efforts toward optimizing turbidity removal performance. AWOP is a national filter plant optimization effort among 22 states, the EPA, and the Association of State Drinking Water Administrators. The AWOP Award and Forest Park Water's on-going participation in the "Partnership for Safe

Water", a voluntary program administered by the American Water Works Association, demonstrate Forest Park Water's continuing commitment to operational excellence.







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2013 ANNUAL DRINKING WATER QUALITY REPORT

Este informe contiene información importante acerca de su agua potable. Haga que alguien lo traduzca para usted, ó hable con alguien que lo entienda.

Owners of multiple family dwellings, commercial businesses, public housing, or similar situations, are encouraged to post and/or distribute this report. Additional copies are available and can be obtained at North Penn Water Authority's operations center or by calling (215) 855-3617.

This report is also available online at www.northpennwater.org.

NPWA water meets or exceeds all State and Federal Safe Drinking Water Act standards.

North Penn Water Authority (NPWA) is pleased to present to you this year's Annual Drinking Water Quality Report. This brochure is a snapshot of last year's water

quality. Included are details about where your water comes from, what it contains, and how it compares to **Environmental Protection Agency** quality (EPA) and Pennsylvania Department

of Environmental Protection (PA DEP) state standards. We are committed to providing you with information because informed customers are our best allies. The Authority's staff of professionals is dedicated to

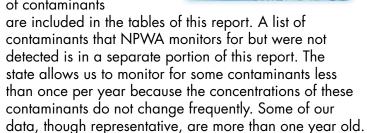
ensuring that our customers receive a safe, economical, and continuous supply of water.

Since July 2011, the primary source of water for Sellersville Borough is treated surface water from the Forest Park Water Treatment Plant (FPW) located in Chalfont. As the water leaves FPW and travels through the distribution system, a small percentage of groundwater from wells located within Hilltown Township and Telford Borough at times can also contribute to the source of water that serves Sellersville. Well 6, the well located in West Rockhill Township, still continues to supply water to the Borough. This well has had no water quality problems and meets all Federal and State drinking water regulations. All groundwater wells within Sellersville that had arsenic concerns have been permanently shut down and are no longer being used. NPWA has made and will continue to make improvements in the Sellersville area in order to provide our customers with the finest quality drinking water and service.

NPWA routinely monitors for constituents in your drinking water according to Federal and State laws. These tables show the results of our monitoring for the period of January 1 to December 31, 2013. These tables

contain the most recent data used to assure compliance with Federal and State laws. All data is from 2013 unless otherwise indicated.

While NPWA tests for over 100 contaminants to ensure water quality, only detected values of contaminants



It is important for our valued customers to be informed about their water quality. If you have any questions about this report or regarding your water utility, please contact Marianne Morgan, Community Relations Coordinator, at (215) 855-3617 or visit our website at www.northpennwater.org. If you want to learn more about NPWA, please attend any of our regularly scheduled Board of Directors meetings. Meetings are held on the fourth Tuesday of every month at the Authority's operations center located near the intersection of Forty Foot and Allentown Roads, in Towamencin Township. Meetings begin at 7:30 p.m.



HOW NPWA IS PROTECTING THE WATER YOU DRINK

Water Main Replacement

Program in progress.

To enhance water quality, NPWA performs an annual hydrant flushing program which takes place in the spring of each year. This flushing program helps improve water quality by removing any possible build-up of mineral deposits from the inside of water distribution pipes.

NPWA also has an aggressive water main replacement program to improve the quality of water that we deliver to our customers. Old unlined cast iron mains, that can affect water quality

and restrict flow, are replaced on a regular basis. These projects are scheduled when Penn DOT or our member municipalities are doing work on the roads to reduce inconvenience to the community.

In 2011, NPWA became the first water utility in Pennsylvania to join American Water Works

Association's (AWWA) Distribution System Optimization Program. This program is part of AWWA's Partnership for Safe Water whose objective is to identify opportunities for improvement in system operations and to empower system operators with knowledge to recognize and apply procedures that result in water quality and system reliability improvements. NPWA's participation in this voluntary program demonstrates our commitment to providing the best quality water to our customers.

The Authority has continued to work proactively to protect its sources of water. The North Branch Watershed Association (NBWA) provides educational speakers at meetings, performs riparian buffer plantings, stream cleanups and supports township and county endeavors to mark stream input locations on roadways and private areas. NBWA is dedicated to protecting the North Branch of the Neshaminy Creek, which provides approximately 85% of North Penn Water Authority's source water. Any individuals wishing to become involved in the North Branch Watershed Association may contact Marianne Morgan at the Authority at 215-855-3617 or Meghan Rogalus, Watershed Specialist at Bucks County Conservation District at 215-345-7577, ext. 107.



A Source Water Assessment of Sellersville's groundwater source was completed in 2005 by the PA DEP. The area around the well is primarily forested and agricultural/ undeveloped land with moderate development. The Assessment found that the well was most susceptible to contamination from transportation corridors, agricultural

activities, and abandoned landfills. Potential pollutants used or found in residential areas, auto repair shops, cemeteries, and an electroplater also pose a high threat to the well.

In 2003, a Source Water Assessment of the North Branch Neshaminy Creek Intake, which supplies water to the Forest Park Water Filtration Plant, was completed and prepared by Spotts, Steven & McCoy, Inc. for

the PA DEP. The Assessment found that the North Branch Neshaminy Creek Intake is potentially most susceptible to point sources of pollution from auto repair shops, wastewater treatment plants, boating, quarries, on-lot septic systems and gas stations. Non-point sources of potential contamination include major transportation corridors and runoff from areas of urban development, livestock farming, and industrial parks. The most serious potential sources are related to accidental release of a variety of materials along transportation corridors and high nutrients from Lake Galena. If you are interested in obtaining information concerning Source Water Assessments for the state, please contact the Authority or the state PA DEP at 484-250-5970 or you may obtain copies of these Assessments at http://www.dep.state. pa.us/dep/deputate/watermgt/wc/Subjects/SrceProt/ SourceAssessment/default.htm.

North Penn Water Authority serves over 33,000 customers in the following municipalities:

Hatfield Borough Lansdale Borough Sellersville Borough Souderton Borough Franconia Township Hatfield Township Lower Salford Township Skippack Township Towamencin Township

and portions of: East Rockhill Township Hilltown Township Montgomery Township New Britain Borough New Britain Township Salford Township Upper Gwynedd Township Upper Salford Township West Rockhill Township Worcester Township

DETECTED SAMPLE RESULTS

PWSID # 1460034

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CONTAMINANTS – Tested at Sellersville Well 6, Forest Park Water Treatment Plant, Hilltown Township Wells (H) and Telford Borough Wells (T)								
Contaminant (Unit of Measure)	Violation Yes/No	Average Level Detected	Range Detected	MCLG	MCL	Major Sources in Drinking Water		
Disinfectant Residuals and D	isinfection	By-products	(DBPs)					
Bromate (ppb)	No	1.4	1.0 – 1.6	0	10	By-product of drinking water disinfection		
Chlorine (ppm) (Leaving Treatment Plant)	No	1.15	0.94 - 1.24	MRDLG=4	MRDL=4	Water additive used to control microbes		
Chlorine (ppm) (Leaving Wells)	No	0.99	0 – 2.0 0.48 – 2.91 (H) 0.01 – 1.52 (T)	MRDLG=4	MRDL=4	Water additive used to control microbes		
Inorganic Contaminants – Most recent tests were done in 2012 - 2013								
Arsenic (ppb)	No	0 5.5 (T)	0 – 3.0 3.0 – 6.7 (T)	0	10	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes		
Barium (ppm)	No	0.01 0.04 (H) 0.14 (T)	0 – 0.02 0.024 – 0.063 (H) 0 – 0.3 (T)	2	2	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits		
Chromium (ppb)	No	0	0 – 0.8	100	100	Discharge from steel and pulp mills; erosion of natural deposits		
Fluoride (ppm)	No	0.18 (H) 0 (T)	0.12 – 0.29 (H) 0 – 0.13 (T)	2	2	Erosion of natural deposits; discharge from fertilizer and aluminum factories		
Nickel (ppb)	No	2.7 (H)	0 – 5.4 (H)	100	100	Erosion of natural deposits; by-product of various industrial processes		
Nitrate (ppm)	No	0.60 2.4 (T)	0.23 – 1.05 1.6 – 3.4 (T)	10	10	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits		
Radionuclides – Most recent tests were done in 2011 - 2013								
Alpha Emitters (pCi/L)	No	2.50 1.33 (H) 8.33 (T)	2.50 0 – 3.27 (H) 8.33 (T)	0	15	Erosion of natural deposits		
Combined Radium (pCi/L)	No	1.61 0.07 (H)	1.61 0 – 0.27 (H)	0	5	Erosion of natural deposits		
Uranium (µg/L)	No	1.91 0.87 (H) 5.39 (T)	1.91 0 – 2.19 (H) 2.91 – 8.68 (T)	0	30	Erosion of natural deposits		
Synthetic Organic Contamir	nants (SOC	s) – Most re	cent tests were d	one in 2011	- 2013			
Atrazine (ppb)	No	0	0 – 0.3	3	3	Runoff from herbicide used on row crops		
Volatile Organic Contamina	nts (VOCs)							
cis-1,2-Dichloroethylene (ppb)	No	1.3	0 – 3.2	70	70	Discharge from industrial chemical factories		
Trichloroethylene (ppb)	No	0	0 – 0.5	0	5	Discharge from metal degreasing sites and other factories		
Performance Monitoring at the Treatment Plant								
Turbidity (NTU) ¹	No	0.03	0.02 - 0.05	N/A	TT	Soil runoff		
Unregulated Contaminants								
N-Nitrosodiethylamine (NDEA) (ppb) (July 2009 – April 2010 Results)	N/A	0	0 – 0.0086	N/A	N/A	Nitrosamines can form as intermediates and byproducts in chemical synthesis and manufacture of rubber, leather, and plastics; can form spontaneously by reaction of precursor amines with nitrate and related compounds, or by action of nitrate-reducing bacteria		

Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. 100% of all samples were <0.1 NTU. As a member of the Partnership for Safe Drinking Water, our goal is to achieve < 0.1 NTU. We accomplished this in 2013.

DISINFECTANT RESIDUALS AND DISINFECTION BY-PRODUCTS - Tested Throughout the Distribution System

Contaminant (Unit of Measure)	Violation Yes/No	Average Level Detected	Range Detected	MCLG	MCL	Major Sources in Drinking Water
Chlorine (ppm)	No	0.68	0.53 - 0.83	MRDLG=4	MRDL=4	Water additive used to control microbes
Haloacetic Acids (HAA) (ppb)	No	6.7	2.0 – 14.2	N/A	60	By-product of drinking water disinfection
Total Trihalomethanes (TTHM) (ppb)	No	23.0	6.7 – 41.1	N/A	80	By-product of drinking water disinfection

BACTERIA IN TAP WATER - Tested Throughout the Distribution System

Diterbilit in in the market resident the Distribution System								
Contaminant	Violation Yes/No	Highest % of Positive Samples	Monthly Range of Positive Samples	MCLG	MCL	Major Sources in Drinking Water		
Total Coliform Bacteria	No	0.93	0 – 0.93	0	5% of monthly samples are positive	Naturally present in the environment		

LEAD AND COPPER – Tested at Customers' Taps								
Contaminant (Unit of Measure)	Violation Yes/No	90th Percentile Result	Action Level (AL)	MCLG	# of Sites Above AL of Total Sites			
Copper (ppm)	No	0.590	1.3	1.3	0 out of 33	Corrosion of household plumbing systems		
Lead (ppb)	No	3.9	15	0	0 out of 33	Corrosion of household plumbing systems		

In the above tables you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms, we've provided the following definitions:

- Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Maximum Contaminant Level (MCL): 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.
- 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. Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There

necessary for control of microbial contaminants.

is convincing evidence that addition of a disinfectant is

- 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 contamination.
- Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.
- N/A: Not Applicable
- NTU: Nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just
- noticeable to the average person.
- pCi/L: picocuries per liter (a measure of radioactivity) in water)
- ppb: parts per billion, or micrograms per liter (µg/L) ppm: parts per million, or milligrams per liter (mg/L)