

AMBLER BOROUGH WATER DEPARTMENT
INFORMATION REGARDING PFOA AND PFOS IN WATER SUPPLY

The Ambler Borough Water Department is committed to providing the highest quality drinking water to all consumers in its service area of approximately 6.5 square miles, which includes Ambler Borough and portions of Lower Gwynedd, Upper Dublin, Whitmarsh, and Whitpain Townships. An estimated population of 21,000 people is served by the Borough's water system. The present sources of water to the system are nine (9) wells and a surface water supply located throughout the service area.

In May 2016, the U.S. Environmental Protection Agency (USEPA) replaced existing provisional health advisories for Perfluorooctanoic Acid (PFOA) and Perfluorooctanesulfonic Acid (PFOS) with a new, lifetime health advisory. The new Health Advisory Limit (HAL) was set at 70 parts per trillion (ppt) for the combined concentrations of PFOA and PFOS. These health advisories are non-regulatory, but reflect USEPA's use of the best science currently available to identify the combined concentration of PFOA and PFOS in drinking water below which adverse health effects are not anticipated to occur over a lifetime of exposure for the most sensitive members of the population.

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as Perfluoroalkyl Substances (PFASs) which are included in the family of manmade chemicals known as Perfluorinated Compounds (PFCs). These chemicals have been used for decades to make products that are resistant to heat, water, grease and stains. Additionally, they have been used in firefighting foam used at airfields and elsewhere and in various industrial processes. More information about PFASs/PFCs and the health advisory can be viewed at the Centers for Disease Control and Prevention (CDC) and USEPA websites:

<http://www.atsdr.cdc.gov/pfc/index.html>

<https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos>

In July 2016, Ambler Borough conducted sampling for PFOA and PFOS at five (5) of its water supply wells, specifically Well Nos. 2, 6, 7, 8 and 14, which are the wells closest to

the Willow Grove Naval Air Station. These wells produced a combined total of 219 million gallons of water in 2015, which was 55% of all the water produced last year by Ambler wells. All PFOA and PFOS concentrations measured in the sampled water supplies were significantly below the USEPA HAL. Results in four of the five wells were found to be at or less than 20% of the HAL. Well 2, which is one of the lowest producing wells, was found to have a concentration of approximately 31% of the HAL. The flow weighted average concentration of the five wells was 14 ppt, which is 20% of the HAL.

The following table summarizes the test results:

Source	Parameter	Date Sampled	Result (ppt)	Combined Concentration (ppt)	EPA HAL (ppt)	Below HAL	Percent of HAL
Well 2	PFOA	7/15/16	12	22	70	YES	31%
	PFOS		10				
Well 6	PFOA	7/15/16	6	13	70	YES	19%
	PFOS		7				
Well 7	PFOA	7/15/16	6	13	70	YES	19%
	PFOS		7				
Well 8	PFOA	7/15/16	6	14	70	YES	20%
	PFOS		8				
Well 14	PFOA	7/15/16	5	11	70	YES	16%
	PFOS		6				

Notes:

PFOA - Perfluorooctanoic Acid

PFOS - Perfluorooctanesulfonic Acid

ppt - parts per trillion

HAL - USEPA Health Advisory Limit, 70 ppt combined PFOA and PFOS

Ambler Borough will conduct sampling and testing of the balance of its water supply sources for PFOA and PFOS in 2016. Additionally, the Borough will continue to regularly sample and test its water supplies for PFCs going forward and respond to USEPA recommendations as they are issued. The Borough will release the results of future PFC sampling events as they become available.

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