

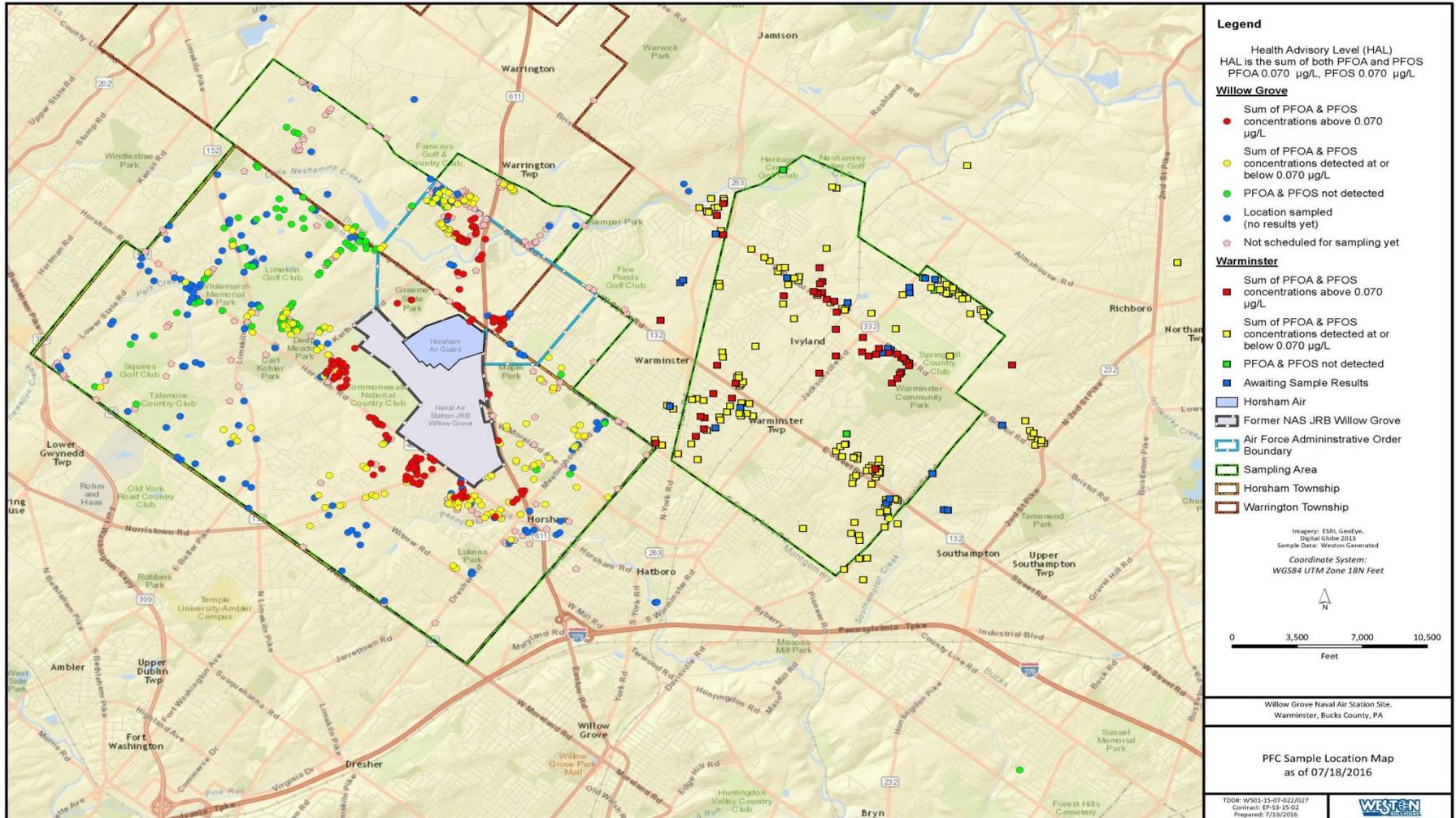


**Horsham Township
Health Expert Panel
Discussion on Water Quality**

Navy Status Update

August 29, 2016

NAS JRB Willow Grove / NAWC Warminster Combined Area Map



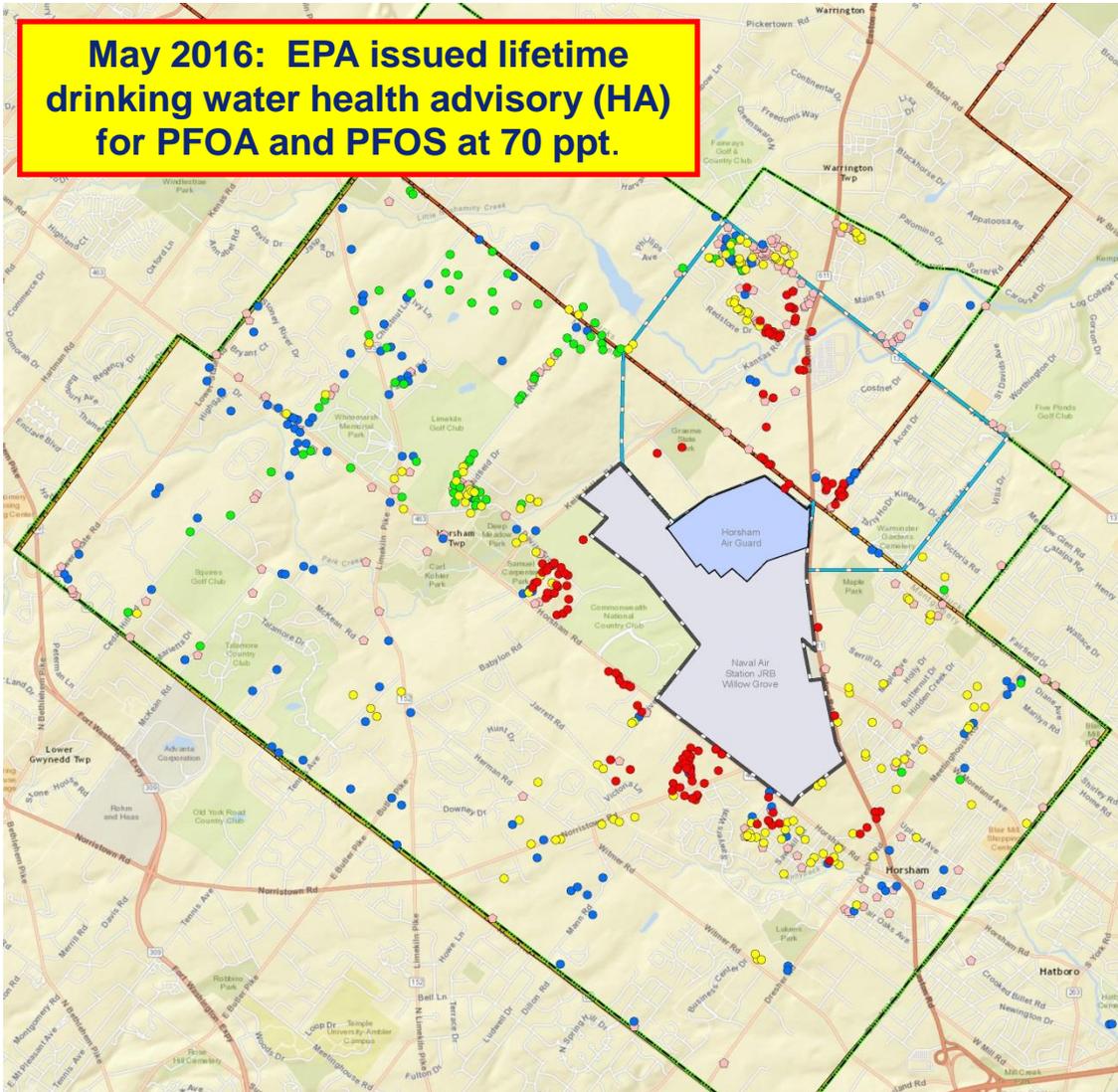
File: \\EPA_Regional_MI\Naval_Air_Development_Center\WAD\Warminster_Willowgrove_Combined.mxd, 7/19/2016 4:28:57 PM, jghm

NAS JRB Willow Grove

Offsite Drinking Water Supply Wells



May 2016: EPA issued lifetime drinking water health advisory (HA) for PFOA and PFOS at 70 ppt.



Private Well Data – Horsham Township (as of 4 Aug 2016)

of Wells Tested: 418

of Wells Exceeding HA Value: 79

of Locations connected to public water system: 12

Bottled water provided until permanent public water connections in place

Map Legend

Red = Sum of PFOS and PFOA Exceed HA

Yellow = Sum of PFOS and PFOA at or Below HA

Green = Non-detection of PFOS or PFOA

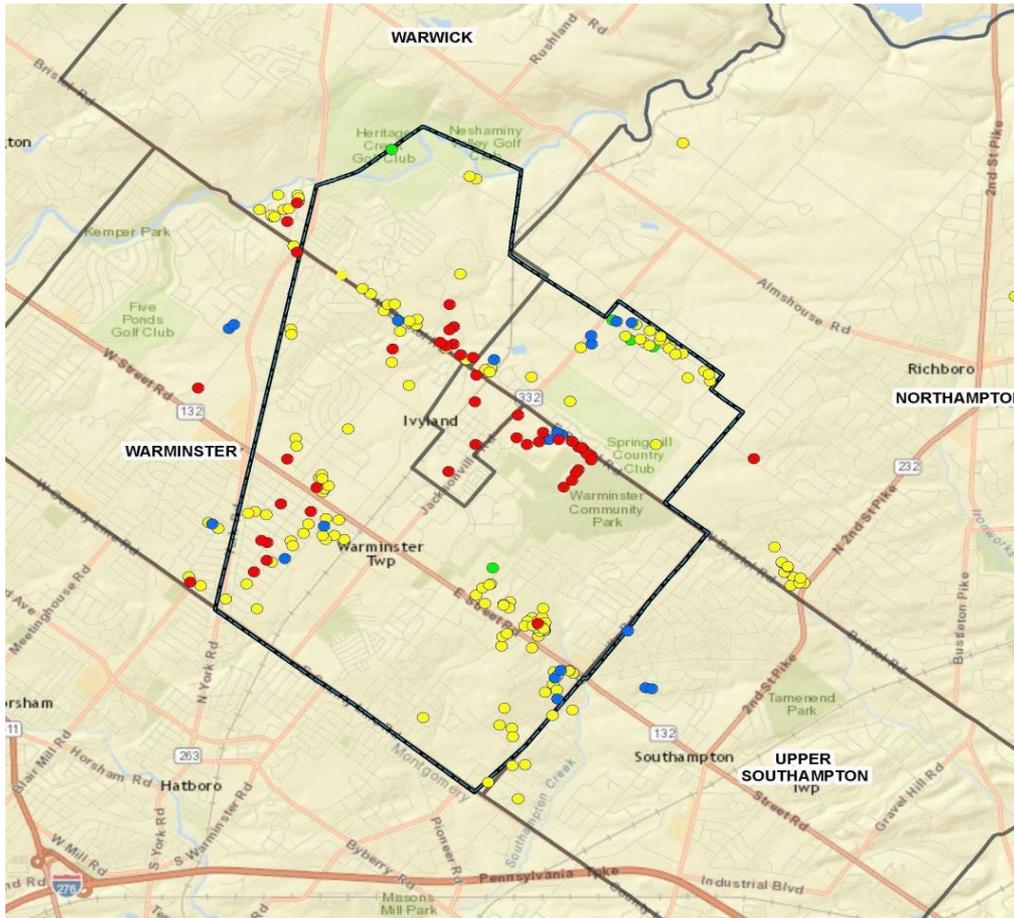
Horsham Water and Sewer Authority has **five public supply wells** removed from service due to PFOA/PFOS levels above HA.

NAWC Warminster

Offsite Drinking Water Supply Wells



May 2016: EPA issued lifetime drinking water health advisory (HA) for PFOA and PFOS at 70 ppt.



Private Well Data (as of 20 June 16)

of Wells Tested: 198

of Wells Exceeding HA Value: 37

of Locations connected to public water system: 15

Bottled water provided until permanent public water connections in place

Map Legend

Red = Sum of PFOA and PFOS Exceed HA

Yellow = Sum of PFOA and PFOS at or Below HA

Green = Non-detection of PFOA or PFOS

Warminster Municipal Water Authority has **6 public supply wells** removed from service due to PFOA/PFOS levels above HA.

Navy Environmental Services Cooperative Agreements (ESCA)



- **WARMINSTER – ESCA executed Nov 2014 with Warminster Municipal Water Authority (WMWA) for public and private drinking water supply wells**
 - ✓ WMWA Well 10 - Granular Activated Carbon (GAC) filtration installed; testing and sampling underway
 - ✓ WMWA Wells 13 & 26 - GAC treatment being installed; testing and sampling in near future
 - ✓ Currently reviewing Warminster proposal of 29 Jul 2016 for additional wells shut down in response to EPA Lifetime Health Advisory
 - ✓ Connecting private wells to public water supply including installing water mains where no supply lines presently exist

- **HORSHAM – ESCA executed Jul 2015 with Horsham Water and Sewer Authority (HWSA) for public and private drinking water supply wells**
 - ✓ HWSA in process of contracting for GAC filtration, operation and maintenance
 - ✓ Connecting private wells to public water supply including installing water mains where no supply lines presently exist

Navy Planned Actions



➤ **NAWC Warminster**

- Continue to actively control and remediate groundwater plume through GAC treatment

➤ **NAS JRB Willow Grove**

- Continuing delineation of soil & groundwater contamination
- Evaluating ways to control groundwater flow and surface water impacts
- Reviewing soil sampling results for potential removal action
- Future cleanup actions to be determined in consultation with EPA and PADEP
 - ✓ Access and use of groundwater will be restricted on installation
 - ✓ Committed to actively working with regulatory agencies and Horsham Land Redevelopment Authority (HLRA) to permit redevelopment in a safe and protective manner

Department of the Navy (DON) Perfluorinated Compounds (PFC) / Perfluoroalkyl Substances (PFAS) website

<http://www.secnav.navy.mil/eie/pages/pfc-pfas.aspx#>

NAVFAC BRAC PMO Websites (includes links to environmental information and the administrative record):

- ✓ <http://bracpmo.navy.mil>
- ✓ http://bracpmo.navy.mil/brac_bases/northeast/reserve_base_willow_grove/documents.html
- ✓ http://bracpmo.navy.mil/brac_bases/northeast/former_warfare_center_warminster/documents.html

For private well sampling in Horsham Township:

willie.lin@navy.mil or Rovira.Eduardo@epa.gov

For private well sampling in Warminster Township:

willie.lin@navy.mil or Scharr.Ruth@epa.gov