

# Horsham

# Water Quality Update

March 8, 2017

## Short Term Remediation Action Plan:

1. Temporary Treatment Systems at Wells 10, 17 and 21
2. Permanent Treatment Systems at Wells 26 and 40
3. Shutdown all other wells except keep Well 7 in operation
4. North Wales Water Authority increase to 1.2 million gpd
5. Possible suspension of Aqua PA Interconnection

# Short Term Remediation Action Plan Update:

## 1. Temporary Treatment Systems at Wells 10, 17 and 21:

- Well 10 operations permit application has been submitted to PADEP. PADEP inspected the well and filters on Feb. 6<sup>th</sup>.
- Well 17 is now back in service and pumping filtered water into the public system.
- Well 21 is now back in service and pumping filtered water into the public system.

# Short Term Remediation Action Plan Update:

## 2. Permanent Treatment Systems at Wells 26 & 40:

- Well 26:
  - Operating in test mode
  - Submitted operation permit application to DEP
  - DEP inspected well and filters on Feb. 2nd
  - First set of sample results sent to DEP week of Feb. 27th
- Well 40:
  - Operating in test mode
  - Submitted operation permit application to DEP
  - DEP inspected well and filters on Feb. 2nd
    - First sample results were received and submitted to DEP for review; sample results indicate removal of all detectable PFOS/PFOA.
  - Well was placed back in service on Feb. 27th but caused 'cloudy' water due to air. There are no safety or health concerns with the 'cloudy' water.
  - Well was shutdown and currently working to identify the source of air that is causing the 'cloudy' water.

## Short Term Remediation Action Plan Update:

3. Shutdown all other wells except keep Well 7 in operation:

- Wells 1,2,9, 19 & 20 have been shutdown
- Remaining wells (3, 4 & 22) will be shutdown after wells 26 & 40 are permitted to be back in service

4. North Wales Water Authority increase to 1.2 million gallons per day:

- Currently at 1.0 million gpd

5. Aqua PA Interconnect:

- Currently at 225,000 gpd

# Other Factors:

- PADEP Permit Approvals
- Changes in drought status
- Demand changes
- Chlorine Residual: had a successful meeting with NWWA to address this short term issue
- Water Main Breaks
- Aqua PA has received certification to analyze for PFOA & PFOS under method 537

# Private Wells:

- Navy:
  - 450 private wells have been sampled
  - 92 tested above the EPA LHAL 70 ppt
    - 63 have been connected to public system
    - 3 properties owners have rejected the offer
    - 2 have not accepted nor rejected the offer
    - 4 are already connected & only require well abandonment
    - 8 require water main extensions
    - 5 are delayed due to well abandonment issue
    - 1 property is currently being connected to public system
    - 6 offers have not yet been issued
  - 70 tested between 40 and 70 ppt
  - Bids are due March 30th for Phase II of water main extensions
- Air National Guard:
  - 4 private wells have been sampled
  - 4 have been connected to the public system
  - 1 well, which is not residential & not currently used, needs to be sampled

# Long Term Remediation Action Plan:

1. Continued use of treated wells funded by the Navy: Wells 10, 17, 21, 26 & 40.
2. Permanent Treatment System on five additional wells: Wells 2, 4, 19, 20 & 22.
3. Permanent Treatment System on the Aqua PA interconnection
4. Additional interconnection with North Wales Water Authority
5. North Wales Water Authority: 600,000 gpd
6. 1.8 miles of new water main to make public water available



# Long Term Remediation Action Plan:

- PennVest Board awarded the \$10M grant on January 25, 2017.
- Tentative contract schedule:
  - Advertise for bids mid-March
  - Receive bids late April
  - Award contracts early May
- PennVest settlement is tentatively scheduled for June 8, 2017.

# Long Term Remediation Action Plan:

- Have submitted two Zoning Hearing Board applications for the sites at Well 19 and at Well 20.
- Working with WorkSpace Property Trust on an easement for the Aqua PA interconnection site.
- The Township has introduced an ordinance granting an easement on Township owned property on County Line Road to the HWSA and NWWA for the additional interconnection with NWWA.

# Recap of Drinking Water Efforts:

- Treatment systems were installed on five planned wells by the end of 2016
- Currently, approximately 70% of water serving the public system is either filtered or purchased from a source with no historic detection of PFOS or PFOA
- The Public System average combined amount is approximately 8 ppt.
- Will continue to purchase water and rely on a mix of sources to ensure our residents have a safe and adequate supply
- Will continue to test filters per our plan while waiting for PADEP permit approvals
- Horsham Township continues to achieve more stringent water quality standards than those set by EPA and DEP.

# Wastewater:

- Received the first lab report for wastewater sampling at the Horsham Air Guard Station (HAGS) since August 2016
  - December 2016 sample 197 ppt combined
  - August 2016 sample 3,600 ppt combined
  - HAGS wastewater discharge permit limit is 300 ppt combined
- Effluent monitoring results at the Park Creek Sewage Treatment Plant for late 2016/early 2017 showed combined levels at approximately 30 ppt vs. results from earlier 2016 which averaged over 200 ppt combined

# Stormwater:

- A conceptual, temporary plan has been developed by PADEP to divert and treat the stormwater on the Horsham Air Guard Station.
- The concept plan is being reviewed, but so far so good.

# Looking forward:

- Continue communication to the residents
- Complete the implementation of the short term remediation plan
- Continue to work with PennVest to secure the funding to assist with the implementation of the long term plan
- Continue to meet, lobby and work to address the storm water run off from the bases
- Continue to lobby to receive reimbursement of costs and full funding relating to the contamination
- Begin implementation of the long term plan

# Communication:

- Monthly updates at Council's second Wednesday public meetings
- Township website: [www.horsham.org](http://www.horsham.org)
- HWSA website: [www.horshamwater-sewer.com](http://www.horshamwater-sewer.com)
- Water hotline: 215-907-0034
- Follow us on Twitter at @HorshamTownship
- Like us on Facebook at Horsham Township
- Sign up for email updates at [water@horsham.org](mailto:water@horsham.org)