

# Horsham

# Water Quality Update

April 12, 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 was placed back in service on April 11th:
  - First public water system that we are aware of that in addition to the GAC filters also using a new resin technology
- 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:
  - Placed back in service on March 16th.
- Well 40:
  - 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 to identify the source of air that is causing the 'cloudy' water.
  - A variable frequency drive (VFD), which we hope will correct the air issue, was delivered on April 3rd and installed on April 5th.
  - The Well is going through testing now.
  - The plan is to put the well back in service by April 15th.

## Short Term Remediation Action Plan Update:

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

- Wells 1, 3, 2,9, 19 & 20 have been shutdown
- Remaining wells (4 & 22) will be shutdown over the next few weeks

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

- Currently at 1.0 million gpd
- Will be at full amount, 1.2 million gpd, in the next few weeks

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
  - 91 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
    - 7 require water main extensions
    - 5 are delayed due to well abandonment issue
    - 5 properties in various stages of connection process
    - 1 property awaiting validation
    - 1 property unclear if the Navy is the source
  - 78 tested between 40 and 70 ppt
  - Bids were received for Phase II of water main extensions and HWSA awarded a contract on April 10th
- 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.
- Bids are advertised for six treatment systems (wells 2, 4, 19, 20, 22 & Aqua interconnect). Pre-bid meeting was held on April 5th.
- Bids are advertised for almost 2 miles of water main extensions. A pre-bid meeting will be scheduled for week of April 10th.
- Bid specifications are being completed for the additional NWWA interconnection & should be advertised the week of April 10th
- PennVest settlement is tentatively scheduled for June 8, 2017.

# Long Term Remediation Action Plan:

- HWSA scheduled for the April 11th Zoning Hearing Board meeting with two 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 granted by ordinance on March 27th 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 78% 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 7 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:

- Wastewater sampling at the Horsham Air Guard Station (HAGS):
  - HAGS wastewater discharge permit limit is 300 ppt combined
  - August 2016 sample 3,600 ppt combined
  - December 2016 sample 197 ppt combined
  - Feb/March 2017 sample 250 ppt combined
    - Transition to new water treatment facility is believed to be the cause of increase
- Effluent monitoring results at the Park Creek Sewage Treatment Plant are currently averaging 27.6 ppt combined vs. results from earlier 2016 which averaged over 200 ppt combined

# Stormwater:

- A temporary plan has been developed and approved to divert and treat the stormwater on the Horsham Air Guard Station. Air Guard Station currently is working on obtaining funding for the project.
- The Navy is moving forward to seal off five (5) outfalls on north side of Base (Keith Valley Rd) in late April/early May.
- The Navy is also looking to removal soil around the former Fire Station on Base.

# 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)