

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. 6th.
- 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
- HWSA website: 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