

Sayre/South Waverly HSCA Investigation Update

February 10, 2020

DEP has completed the first phase of the Sayre/South Waverly Hazardous Sites Cleanup Act (HSCA) Investigation and received the first round of analyses for groundwater monitoring well and soil gas samples collected in December 2019.

The map on **Page 2** of this document shows the location of groundwater monitoring wells that were sampled as part of DEP's HSCA investigation in South Waverly and Sayre Boroughs. This includes wells that were recently installed by DEP, and several pre-existing wells from a previous investigation. The sample results that exceeded the Statewide Health Standards for drinking water are noted on the map. DEP's standard for Tetrachloroethene (PCE) is 5 micrograms/liter (ug/l).

The map on **Page 3** of this document shows the location of the soil gas sampling points that were sampled as part of DEP's HSCA investigation in South Waverly and Sayre Boroughs. This includes soil gas sampling points that were recently installed by DEP, and several pre-existing soil gas sampling points from a previous investigation. The sample results that exceeded the Statewide Health Standard vapor intrusion screening levels are noted on the map. DEP's standard for trichloroethene is 80 micrograms per cubic meter (ug/m³).

DEP plans to conduct a second round of sampling in March 2020 to verify these results. Once both rounds of sampling data have been received and reviewed, the data collected will be evaluated to help determine the next appropriate step(s) in the investigation.

The investigation is assessing vapor intrusion risk, which occurs when there is migration of chemicals in vapor form from a subsurface source such as soil or groundwater into overlying buildings. The standards referenced above are based on possible health effects due to long term exposure using very conservative assumptions. Once DEP has verified the results, the next step is to determine any potential risk to nearby residences.

DEP is committed to keeping the community updated on the progress of the Sayre/South Waverly HSCA investigation. This and future updates will be posted on the DEP Northcentral Regional Office Community Information page at <https://www.dep.pa.gov/About/Regional/North-central-Regional-Office/Community-Information/Pages/Sayre-HSCA-Investigation.aspx>.

Groundwater Monitoring Wells



Monitoring Well

Notes:

1. Groundwater gas samples collected from monitoring wells shown on this figure (MW-1 through MW-6, J38-UC01, J39-UC01, J54-UC01, U02-UC01) were analyzed for volatile organic compounds in a testing laboratory using EPA Method 8260.
2. Results shown on this figure are values that exceed Pennsylvania Medium-Specific Concentrations (MSCs) for used aquifers in a residential setting.
3. Tetrachloroethene MSC - 5 ug/L.



Coordinate System:
State Plane Pennsylvania North FIPS 3701
Linear Unit: Foot US

Datum: D North American 1983 (NAD 83)



SAYRE TCE AND PCE SITE BRADFORD COUNTY, PENNSYLVANIA

FIGURE

Sayre Borough Groundwater Investigation
Pennsylvania Department of Environmental Protection
Six Groundwater Monitoring Wells
Results of Groundwater Sampling
Conducted December 2019

Project No: 103S5436012
Prepared: 2/7/2020



Soil Gas Sampling Points



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

<p> Soil Gas Monitoring Well Sampled in December 2019 Other Soil Gas Monitoring Well Location </p> <p>Notes:</p> <ol style="list-style-type: none"> 1. Soil gas samples were analyzed in a testing laboratory for volatile organic compounds using EPA Method TO-15. 2. Laboratory analytical results for volatile organic compounds were compared to Pennsylvania "Sub-slab soil gas Statewide health standard vapor intrusion screening values (SV₅₀)" taken from the Land Recycling Program Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil under Act 2. 3. Trichloroethene MSC - 80 ug/m³. 	<p> Coordinate System: State Plane Pennsylvania North FIPS 3701 Linear Unit: Foot US Datum: D North American 1983 (NAD 83) </p>	<p align="center"> SAYRE TCE AND PCE SITE BRADFORD COUNTY, PENNSYLVANIA </p> <p> FIGURE Sayre Borough Soil Gas Investigation Pennsylvania Department of Environmental Protection Seven Soil Gas Monitoring Wells Results of Soil Gas Sampling Conducted December 2019 </p> <p> Project No: 103S5438012 Prepared: 2/7/2020 </p>
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