



May 30, 2025

CERTIFIED MAIL NO. [REDACTED]

Subject Address: [REDACTED]

Re: Water Supply Request for Investigation #385348
58 Pa. C.S. § 3218 Determination
Huston Township, Clearfield County

Dear [REDACTED]

The Commonwealth of Pennsylvania, Department of Environmental Protection (“Department”) has been investigating the possible degradation of your water supply located at the above-referenced Subject Address (“Water Supply”) from oil and gas activities. The Department has determined that your Water Supply was adversely affected by oil and gas activities, including but not limited to the drilling, alteration, or operation of an oil or gas well. The information upon which this determination is based is summarized below.

Please note that without any treatment, water quality sampling indicates that on occasion your water quality does not meet (i.e., is worse than) the following health and/or aesthetic statewide standards. Note that Primary Maximum Contaminant Levels (“MCLs”) are intended to reflect potential dangers to human health, while Secondary Maximum Contaminant Levels (“SMCLs”) reflect the aesthetics of the water (i.e. taste, smell, etc.). Certain sample parameters in the Water Supply were above a SMCL as indicated below. None of the parameters in the Water Supply were above a MCL.

| Parameters | Unit | Statewide Standards or Recommended Levels | Your <u>Highest</u> Sample Results in Department samples that Were Detected Above Statewide Standards/Levels |
|------------------------|------|---|--|
| Manganese | mg/L | 0.05 | 2.15 |
| Total Chloride | mg/L | 250 | 528.53 |
| Total Dissolved Solids | mg/L | 500 | 1160 |
| Iron | mg/L | 0.3 | 2.91 |

Summary of Investigation

In October 2024, the Department initiated an investigation into the degradation of surface water bodies in the vicinity of your Water Supply. As part of that investigation, water quality samples were collected from your Water Supply on several occasions by the Department and private consultants. These samples were submitted to the Department's laboratory in Harrisburg or to an accredited third-party laboratory for analysis. The analytical reports for the samples collected by the Department were previously provided to you but are summarized for your convenience in the enclosed table along with sample results provided by Danken-SamMar, LLC (also known as "Kendra", as seen in the enclosed table). An additional document is also enclosed to assist you with interpreting the sample results.

The sample results summarized in the enclosed table reveal significantly increased concentrations of iron, manganese, total chloride, and total dissolved solids when compared to their 2018 pre-drill values, and they have exceeded their respective SMCLs at various times during the investigation. Additionally, concentrations of barium, bromide, lithium, and strontium were either detected for the first time (lithium) or increased by at least an order of magnitude when compared to their respective 2018 pre-drill values. These parameters have a strong correlation to wastewaters produced by the oil and gas industry, and they increased in concentration between the October 2024 and December 2024 sampling events. However, since February of 2025, sample results have generally shown a decreasing trend.

The Department is continuing to work to permanently resolve this issue. Please contact John Salinkas, P.G. at (570) 346-5532 if you have any questions about the Department's determination regarding your Water Supply.

Sincerely,



Jennifer W. Means
Environmental Program Manager
Eastern Oil and Gas District

Enclosures:

Results Table
Fact Sheet – Interpreting Water Supply Results

cc: Stephanie Warton (email)
Sean VanFleet (email)
John R. Salinkas, P.G (email)
Complaint File #: 385348