



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DISTRICT OIL AND GAS OPERATIONS

May 14, 2014

CERTIFIED MAIL NO. [REDACTED]

[REDACTED]
[REDACTED]
Re: 58 Pa.C.S § 3218 Determination
Complaint No. 303704.
Springville Township, Susquehanna County

Dear [REDACTED]

The Department has investigated the possible degradation of your water supply well located at the address above in Springville Township, Susquehanna County in response to a report of foaming and odors in your water supply. On 4/8/2014, the Department collected samples from your home water supply. The samples were submitted to the Department's laboratory in Harrisburg for analysis. The analytical reports for the samples are included.

The sample results showed methylene chloride was present at 1.66 micrograms per Liter (ug/L) and tetrachloroethene (PCE) was present at 2.28 ug/L. Acetone and t-Butyl alcohol (TBA) were present at 4.31 ug/L and 16.7 ug/L, respectively. Acetone and TBA were also detected in the field blank submitted to the laboratory. The sample results showed ethylene glycol was present at 320 ug/L and 2-butoxyethanol was present at 200 ug/L. The detections of VOCs, 2-Butoxyethanol and ethyl glycol in your water supply and the consistency of these detections with the chemical composition of Air Foam is indicative of an impact related to the use of the surfactant (Air Foam) during the drilling of the Chief Kupscznk B pad.

Because drilling activities occurred at a gas well within two thousand five hundred feet of your water supply, and the pollution occurred and was reported within one year after completion of the well, under Section 3218 of the Oil and Gas Act (58 Pa C.S. §3218), the gas well operator is presumed to be responsible for the degradation of your water supply.

The Department is continuing to work to permanently resolve this issue. Should you have any questions concerning this matter, please feel free to contact Eric Rooney, P.G. at 570-346-5543.

Sincerely,

Jennifer Means
Environmental Program Manager
Oil and Gas Management

Enclosures:
Laboratory Analytical Results
"How to Interpret A Water Analysis Report"