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pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHCENTRAL REGIONAL OFFICE

2/7/2011



CERTIFIED MAIL NO. [REDACTED]

Re: Act 223, Section 208 Determination
Complaint No. 269945
Terry Twp., Bradford County

Dear [REDACTED]

The Department has investigated your 3/24/2010 complaint that recent gas well drilling activities may have affected your water well. The Department collected samples from your water supply on 4/1/2010, 4/21/2010, and 10/13/2010. The samples were submitted to the Department's laboratory in Harrisburg for analysis. The analytical reports for the samples are included as well as a summary table and documents that will assist you with interpreting the sample results. The Department investigation indicates that there was a temporary impact to your water supply.

A Department letter sent to you on 6/8/2010 indicated elevated concentrations of iron, turbidity, and methane existed in your water supply. Sampling conducted on 10/13/2010 by the Department, AMEC (consultant to Chesapeake Appalachia, LLC), and Farnham & Associates, Inc. indicated iron and turbidity exceeded secondary drinking water standards. Secondary drinking water standards do not indicate a risk to human health but rather reflect the aesthetics of the water (i.e. taste, smell, etc.). Additionally, during the 10/13/2010 sampling event, AMEC and Farnham & Associates collected samples for volatile organic compounds. Chloroform and bromodichloromethane were detected below primary drinking water standards and are likely a result of the disinfectant, Chlorox, which was used prior to the sampling activities. This disinfection procedure was agreed to by all parties prior to the sampling due to the inactive state of the water well for several months prior to the event.

Chesapeake Appalachia, LLC reinstalled pumping equipment, wiring and, pumping into your water supply. The Department recommends that samples be collected from your water supply for two quarters following reinstallation of pumping equipment in order to monitor water quality in your well. Communication between yourself, Chesapeake Appalachia LLC, and the Department is necessary in order to coordinate these sampling events. If you have further questions, please contact Caleb Woolever, a Geologic Specialist with the Department, at 570-327-0546.

2/7/2011

[REDACTED]
Sincerely,



Jennifer W. Means
Environmental Program Manager
Oil and Gas Management

Enclosures

cc:

Caleb Woolever
William Kosmer
John Ryder
Chesapeake Energy
Complaint File

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