



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION

May 22, 2015

CERTIFIED MAIL [REDACTED]

[REDACTED]

Re: 58 Pa.C.S. § 3218 Determination  
Complaint No. 291931  
Bridgewater Township, Susquehanna County

Dear [REDACTED]

The Department has investigated the possible degradation of your water supply at the address noted above in Bridgewater Township, Susquehanna County, in response to a September 5, 2012 complaint that recent gas well drilling activities may have affected your water supply well. On September 6, 2012, October 24, 2012, April 10, 2013, and July 24, 2014, the Department collected samples from your home water supply. The sample results were previously mailed to you. Additionally, Mahaffey Laboratories, on behalf of Carrizo Marcellus, LLC, collected at least five additional samples from your water supply during that time period.

The results of the samples collected by the Department and Mahaffey Laboratories from September 6, 2012 through July 24, 2014, indicate a decrease in the levels of the compounds that exceeded pre-drill levels in the September 5, 2012 sample. None of the parameters analyzed exceeded primary or secondary maximum contaminant levels since the October 9, 2012 sampling event.

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 those activities, under section 3218(c) of the Oil and Gas Act (58 P.S. §3218(c)), the gas well operator is presumed to be responsible for the temporary degradation of your water supply. However, subsequent water sample results indicate that the concentrations have returned to pre-drill levels.

Should you have any questions concerning this matter, please feel free to contact Matthew Shope at 570-346-5537.

Sincerely,

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



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DISTRICT OIL & GAS OPERATIONS

November 20, 2012

CERTIFIED MAIL NO. [REDACTED]

Re: - 58 Pa.C.S § 3218 Determination  
Complaint No. 291931  
Bridgewater Township, Susquehanna County

Dear [REDACTED]

The Department has investigated the possible degradation of your water supply well located at [REDACTED] in response to a 9/5/2012 complaint that recent gas well drilling activities may have affected your water supply well. On 9/6/2012 and 10/24/2012 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, as well as documents that will assist you with interpreting the sample results.

On 9/5/2012 and 10/24/2012, representatives of Resource Environmental Management, Inc., on behalf of Carrizo Marcellus, LLC had collected samples from your home water supply for analysis.

The sample results collected by Resource Environmental Management, Inc., on 9/5/2012 showed several compounds elevated above Department standards. Aluminum was present at 1.29 mg/L which exceeds the secondary maximum contaminate level (SMCL) of 0.2 mg/L, Iron was present at 1.39 mg/L which exceeds the SMCL of 0.3 mg/L, and Manganese was present at 1.42 mg/L which exceeds the SMCL of 0.05 mg/L. On 10/24/2012, the results indicated aluminum was present at 0.23 mg/L which exceeds the SMCL of 0.2 mg/L. Secondary MCLs reflect the aesthetics of the water (i.e. taste, smell, etc.).

The Department investigation indicates that gas well drilling has impacted your water supply. Based on the Department's investigation your water well has been impacted by gas drilling activity. Because drilling activities occurred at a gas well within two thousand five hundred feet of the 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.