UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SUBJECT: Toxicological Review of HW25 Data — 23 March 2012
Dimock, PA

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On 30 January 2012, U.S. EPA collected water samples from HW25 in Dimock. The samples were analyzed for over 200 constituents, including volatile organic compounds, semi-volatile compounds, metals and bacteria. The analytical results were then validated and compared to risk-based screening levels and/or standards for public drinking water supplies.

Methane

In HW25, methane was detected at 65,000 ug/L. A quantitative assessment of risk cannot be performed for methane, nor does U.S. EPA have a drinking water standard for this compound. However, the Department of Interior (Office of Surface Mining Reclamation and Enforcement) has established a Recommended Action Level of 28,000 ug/L for dissolved methane in drinking water. This value is based on the potential threat of explosion associated with methane in confined environments.

Sodium

Samples collected from HW25 contained sodium at concentrations of 24,500 ug/L (kitchen sink) and 24,700 ug/L (kitchen, filtered). A quantitative assessment of risk cannot be performed for sodium; however, U.S. EPA has a non-enforceable Health Advisory of 20,000 ug/L for sodium in drinking water. This value is based on recommendations for individuals on sodium-restricted diets.

No other constituents were detected at levels of concern in this well.

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