DHSS Review of Monthly Total Reduced Sulfur (TRS) Air Sample Data from the Bridgeton Landfill Area, September 14, 2015

The Department of Health and Senior Services (DHSS) has reviewed laboratory air sample data for total reduced sulfur (TRS) compounds collected for the Department of Natural Resources (DNR) near Bridgeton Landfill on September 14, 2015. Samples were collected at one location upwind of the landfill and one location downwind of the landfill. DHSS has reviewed this data for evaluation of potential public health concerns of short-term health effects.

Hydrogen Sulfide and Other Reduced Sulfur Compounds

Hydrogen sulfide and other reduced sulfur compounds were not detected in the upwind or downwind laboratory air samples. While low concentrations of hydrogen sulfide were detected by the Jerome meter during routine monitoring on the same day, those concentrations were below levels of public health concern and were less than the detection limits of the laboratory analysis. In addition, while total reduced sulfur compounds were periodically detected by AreaRAE monitors on the same day, concentrations of individual compounds that contributed to those total concentrations were apparently less than the detection limits of the laboratory analysis.

Sulfur Dioxide

Sulfur dioxide is also included in the analysis method for TRS, but was not detected in the upwind or downwind laboratory samples. While low concentrations of sulfur dioxide were detected by AreaRae monitors during routine monitoring on the same day, average concentrations were below levels of public health concern and were less than the detection limits of the laboratory analysis.