## DHSS Review of Air Sample Data from the Bridgeton Landfill Area, May 30, 2013

The Department of Health and Senior Services (DHSS) has reviewed air sample data collected for the Department of Natural Resources (DNR) near Bridgeton Landfill on May 30, 2013. Samples were collected at two locations upwind of the landfill and two locations downwind of the landfill for laboratory determination of concentrations of volatile organic compounds (VOCs), aldehydes, and reduced sulfur compounds. DHSS has reviewed this data for evaluation of potential public health concerns for short-term health effects.

## **VOCs**

Concentrations of VOCs were well below levels of public health concern. Downwind of the landfill, 23 VOCs were detected in ambient air in concentrations that generally exceeded concentrations detected upwind of the landfill. However, these concentrations, which ranged from 0.08 parts per billion (ppb) to 181.0 ppb, did not exceed health-based screening levels for acute exposure.

## Aldehydes

Concentrations of aldehydes were well below levels of public health concern. Downwind of the landfill, five aldehydes were detected, which ranged in concentration from 0.06 ppb to 0.87 ppb and did not exceed health-based screening levels for acute exposure.

## Reduced Sulfur Compounds

Reduced sulfur compounds were not detected in any of the samples. While low concentrations of hydrogen sulfide were detected by the Jerome meter in downwind locations on the same day, those concentrations were less than the detection limit of the laboratory analysis. During the 4-hour sample collection period, reduced sulfur compounds were also not detected by the AreaRAE monitor located in the nearby downwind location.