

DHSS Review of Air Sampling Data from the Bridgeton Landfill Area
February 4-5 Sampling Event

The Department of Health and Senior Services reviewed the air sample data including the concentrations of 62 volatile organic compounds and 12 aldehydes in the air. Department of Health and Senior Services analysis found the analyzed gas concentrations did not exceed a level of concern for public health.

Samples collected in a nearby residential area also showed no chemicals detected above a level of public health concern. Samples were also collected along the landfill property line to capture the worst-case exposure scenario. Department of Health and Senior Services did identify a short-term benzene concentration in one sample near the landfill property line that was slightly above a conservative health-protective screening level for long-term (>1 year) residential exposure. However, this momentary sample result was two to three times less than health-protective screening levels for shorter term exposures. A significant decrease in landfill gas chemical concentrations was observed from the property line to the residential neighborhood, apparently due to dispersion of the landfill gases in ambient air.