

US EPA ARCHIVE DOCUMENT



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

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MEMORANDUM

SUBJECT: Air Sampling Data Comparison Report
General Services Administration – Kansas City Site

FROM: Ronald King, Site Assessment Manager
Emergency Response and Removal North Branch *RK*

THRU: Ronald Hammerschmidt, Ph.D., Director *RH*
Environmental Services Division

TO: General Services Administration – Kansas City Site File
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The U.S. Environmental Protection Agency, under an Interagency Agreement with the U.S. General Services Administration, conducted a Site Reassessment in Buildings 50 and 52 to assess indoor air contamination that may originate from a subsurface source (e.g., contaminated soil or groundwater) and may be migrating into the buildings via vapor intrusion, presenting a threat to the health of occupants.

Four separate rounds of sampling were conducted between February and November 2010. After each of the four separate sampling events, the EPA contractor performing the work completed a trip report and data summary. The Air Sampling Data Comparison Report dated May 24, 2011, was prepared to compare the volatile organic compounds data results from each sampling event in a single report. This report summarizes all VOC data results and includes figures and tables to show the different concentrations found for each contaminate in the indoor air, ambient air and slab vapors.

In addition to the trip report and data summary prepared for each sampling event, the EPA completed a risk-based evaluation of indoor air data, an evaluation of the vapor intrusion pathway and an uncertainties discussion, and provided conclusions for each separate sampling event.

The EPA's conclusion for each sampling event was the levels of VOCs and PCBs related to the subsurface contamination in the indoor air of Buildings 50 and 52, the corridor and the utility tunnel does not pose short-term or long-term health risks of concern. Levels of site-related chemicals in the buildings, the corridor and the utility tunnel fall below or within the EPA's target cancer risk range and below a non-cancer HI of 1.

The data results for acrolein are presented in the report. However, as described in EPA's Memorandum dated December 17, 2010, evaluating the third-round sampling data results, the EPA found the acrolein data was not reliable for evaluating potential health risks. See this memorandum for the EPA's full explanation.

