

Indoor Air Quality Testing at the Middle River Complex

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Lockheed Martin has been investigating and, more recently, cleaning up soil and groundwater at the Middle River Complex (MRC). The contaminants addressed by this effort are likely the byproduct of historical operations at the MRC. They include volatile organic compounds (VOCs), which have the potential to move from underground into buildings through cracks in foundations and basement floors, through sumps, and through utility openings by a process known as vapor intrusion.

Do employees need to be concerned? No. Air and soil testing results indicate that employees do not need to be concerned about air quality resulting from vapor intrusion. A vapor intrusion safety and prevention program is also in place. It includes two basic components discussed below: an indoor air and vapor testing program, and sub-slab depressurization systems (SSDSs) in A- and C-Buildings that collect and treat VOC vapors from under the buildings and discharge the cleaned air at roof level.

Employees are encouraged to ask questions and raise concerns to Lockheed Martin, and they will be addressed promptly.

What indoor air and soil vapor testing has Lockheed Martin done to date? Since 2006, Lockheed Martin has conducted 25 rounds of air quality testing inside A-, B-, and C-Buildings, and has tested the vapor in soil directly beneath these buildings, to ensure that indoor air quality at the Middle River Complex is safe for workers. Sampling is conducted generally twice a year to account for differences in conditions between summer and winter, when heating, ventilation and air conditioning can affect the rate at which soil vapors may be pulled into, blocked from entering, or pushed out of a building. In addition,

outside air is monitored at locations surrounding the MRC to measure chemicals that might already be present in outside air from other sources. This information helps identify whether chemicals found inside the facilities are from ongoing site operations, outside sources, or from underneath the buildings.

Indoor air concentrations in the main working areas of the MRC have consistently been acceptable during the 25 rounds of indoor air testing. Trichloroethene (TCE), a degreasing solvent, has occasionally been found in indoor air samples at concentrations greater than its

