

## The Dayton Sites - Dayton Warehouse

The Dayton Warehouse is located at 601 East Third Street, at the intersection of East Third and Sears Streets in Dayton, Ohio. Between 1946 and 1949, Department of Energy (DOE) used a portion of the Dayton Warehouse for Manhattan Project activities. Based on available historical information, Monsanto did not produce polonium-210 (Po-210) at the Dayton Warehouse, and only used the fourth, fifth, and sixth floors for the Dayton Project. Initially used to store surplus equipment for the project, a laboratory was later built on the fifth floor. Warehouse operations reportedly involved only trace amounts of Po-210 from analyses done on environmental samples, personnel bioassay samples, and biological studies on the effects of Po-210 on animals.

Warehouse operations were transferred to the Mound Laboratory in Miamisburg, Ohio in 1948/1949. The Warehouse facility was then decontaminated and returned to the building's manager for rental to other clients.

In August 1997, the United States Air Force's Radiation Protection Branch found that the exposure rates around the exterior of the Warehouse were at background levels. In January 2000, the United States DOE determined that the Dayton Warehouse was eligible for inclusion into FUSRAP. The constituents of concern at the Warehouse are radium-226 (Ra-226), lead-210 (Pb-210), and beryllium.

The Corps initiated a Site Inspection (SI) in March 2004. The SI involved a systematic assessment of potential fixed and removable residual contamination from the Dayton Warehouse on all six floors, the basement, and the loading area at the north end of the building. The primary steps in investigation of the warehouse involved:

- Floor scans and static counts on each floor
- Swipe samples collected and analyzed for the constituents of concern
- Swipe samples collected in each survey grid and field counted
- Three swipe samples on each floor for beryllium analysis
- Three soil samples from the loading area

The sampling at the site found that the radionuclides and lead are similar to background concentrations in southwest Ohio. Based on the findings of the Site Investigation, the Corps determined that no further action is needed at the Dayton Warehouse.

Ohio EPA concurs with the Corps determination.

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Read the entire report: [Combined Preliminary Assessment/Site Inspection Report, Dayton Warehouse, September 2005](#)

Related Link: [U.S. Army Corps of Engineers, Buffalo District, FUSRAP, Dayton Warehouse](#)

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