



# Site Environmental Report for Calendar Year 2005



DOE Operations at  
The Boeing Company  
Santa Susana Field Laboratory

September 2006

environmental monitoring program provides a measure of the effectiveness of these operational procedures and of the engineering safeguards incorporated into facility designs.

#### **4.2.1 Radiological Monitoring**

Monitoring the environment for potential impact from our past nuclear operations has been a primary focus of Boeing and its predecessors.

In the mid 1950s, Atomics International (AI), then a Division of North American Aviation (NAA), began initial plans for nuclear research at its facilities in the west San Fernando Valley. In 1956, prior to initial operations, it started a comprehensive monitoring program to sample and monitor environmental levels of radioactivity in and around its facilities.

During the 45-year history of nuclear research and later environmental restoration, on-site and off-site environmental monitoring and media sampling have been extensive. In the early years, soil/vegetation sampling was conducted monthly. Sampling locations extended to the Moorpark freeway to the west, to the Ronald Reagan freeway to the north, to Reseda Avenue to the east, and to the Ventura freeway to the south. Samples were also taken around the Canoga and De Soto facilities as well as around the Chatsworth Reservoir. This extensive off-site sampling program was terminated in 1989 when all nuclear research and operations (except remediation) came to an end.

During the 1990s, extensive media sampling programs were conducted in the surrounding areas, including the Brandeis-Bardin Institute and the Santa Monica Mountains Conservancy to the north, Bell Canyon to the south, the Rocketdyne Recreation Center in West Hills to the east, and various private homes in the Chatsworth and West Hills areas. Samples were also taken from such distant areas as Wildwood Park and Tapia Park. In addition, monitoring of off-site radiation, groundwater, and runoff water from the site were routinely performed during this time. Figure 4-1 shows sampling and monitoring locations for these two time periods.

In addition to the sampling activities conducted by Boeing, independent sampling was performed by the following other organizations or persons:

- Argonne National Laboratory (ANL)
- California Dept. of Health Services/Environmental Management Branch (DHS/EMB)
- California Department of Health Services/Radiologic Health Branch (DHS/RHB)
- Environmental Protection Agency/Office of Radiation and Indoor Air (EPA/ORIA)
- Essentia Management Services (for L.A. Dept. of Water & Power)
- Groundwater Resources Corporation (GRC), Later Haley & Aldrich.
- Joel Cehn, Consultant to the Brandeis-Bardin Institute
- Foster Wheeler Environmental Corp. (for Runkle Ranch)
- Kleinfelder Inc. (for Ahmanson Ranch)

# Extensive Radiological Monitoring Since 1956 Has Demonstrated that SSFL Operations Have Not Resulted in a Health Risk to Neighboring Communities

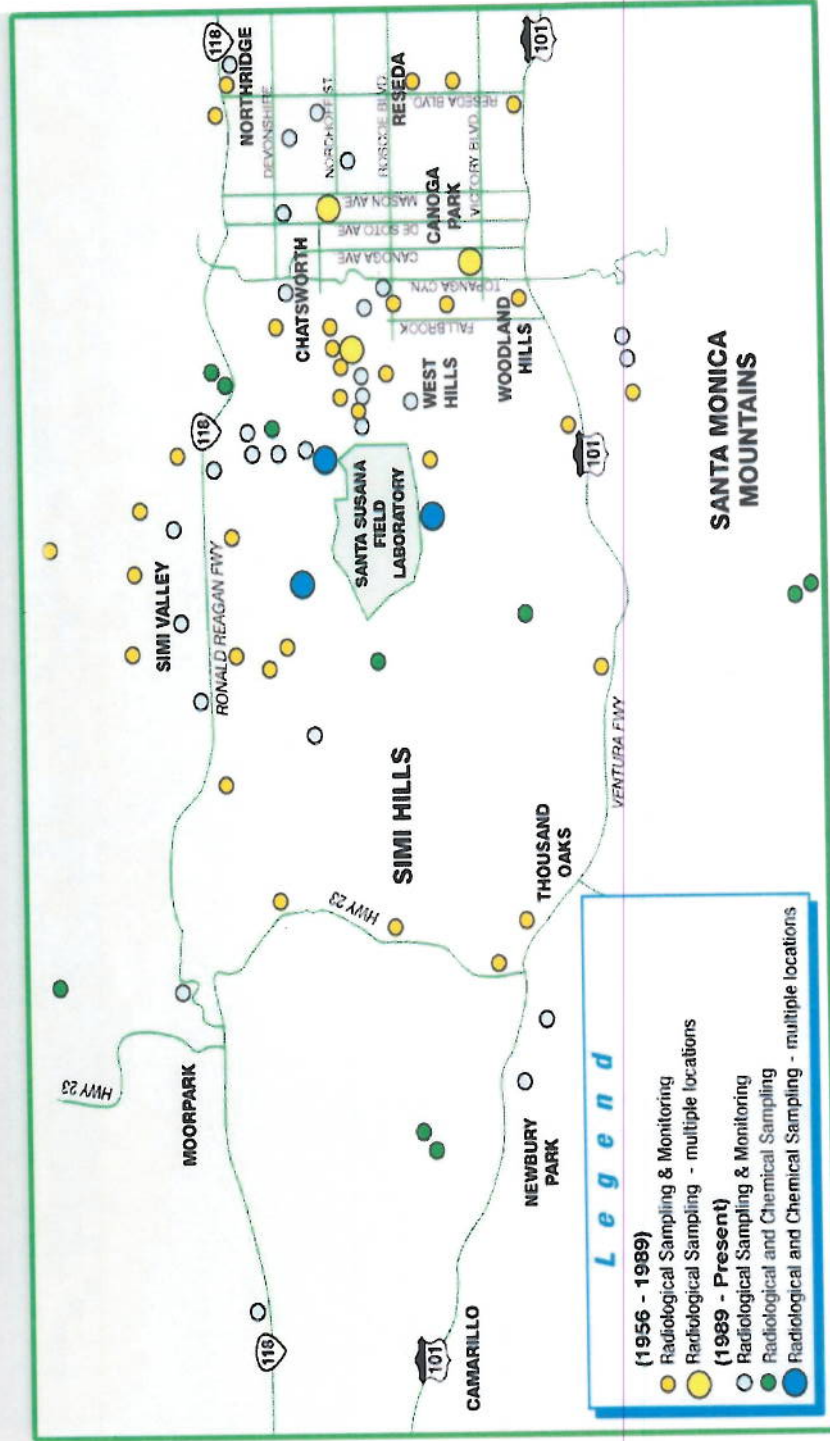


Figure 4-1. Radiological Sampling and Monitoring Locations