

FACT SHEET
Notification of Environmental Investigation and Cleanup
Lockheed Martin
199 Borton Landing Road, Moorestown, NJ 08057 (Block 6700/ Lot 10)
NJDEP Preferred Identification #014885
Date Prepared: January 2013

In accordance with New Jersey Department of Environmental Protection (NJDEP) regulations for "Notification and Public Outreach" (N.J.A.C. 7:26C-1.7(l)), Lockheed Martin is providing information relating to environmental conditions and remedial activities being conducted at the above referenced site.

Former/Current Operations Conducted at the Site

The facility located at 199 Borton Landing Road in Moorestown, NJ opened in 1954. Originally a vegetable farm, the land was purchased and converted into a manufacturing site by RCA, which later became part of General Electric Company (GE). In 1993, Martin Marietta, a predecessor to Lockheed Martin, purchased the facility from GE. Currently, the site is split into two operations, the Main Campus and Radar Test Range. The site serves as the headquarters for surface systems providing engineering, research, testing, and development of radar surveillance systems.

During its history, the site used chlorine-based solvent chemicals in metal parts cleaning operations. The site also stored fuel oil in underground storage tanks to feed the boilers. In 1975, the existing fuel oil storage tanks were closed, and in 1986 the site installed two new tanks made of double-walled fiberglass with leak sensors.

In 1987, when the site was acquired by GE from RCA, traces of the chlorine-based chemical solvents and fuel oil were found on-site in the soil and groundwater. Immediately upon discovery, a plan to mitigate the impact of those constituents to soil and groundwater was developed in coordination with the New Jersey Department of Environmental Protection (NJDEP).

Sampling conducted under the direction of NJDEP over the next two years identified 15 areas of concern (AOCs) at the site, six of which did not require further action. A cleanup plan was submitted to the NJDEP and approved in 1992. Three additional AOCs were identified subsequent to the 1992 cleanup plan bringing the total number of AOCs to 18. In 1994, treatment systems were installed to mitigate constituents in the on-site soil and groundwater. Since then, five of the AOCs have been remediated to current levels determined acceptable by the NJDEP. Twelve AOCs are still in active mitigation or reporting in accordance with applicable regulations and one area is in the investigation phase. Below are steps taken to mitigate the impacts, along with the operating status of each remedial component:

- Three recovery wells were installed near former fuel oil storage tanks to recover fuel oil that leaked into shallow groundwater (active);
- A groundwater treatment system and a vapor extraction system were installed near a former chemical dispensing shed to remove the solvents from both water and soil (inactive; remediation completed);

- An in-situ bioremediation pilot test was conducted to treat source material (active);
- An extensive monitoring well network was installed to monitor groundwater quality beneath, across and beyond the site boundaries (active); and
- A perimeter system was designed and installed along Borton Landing Road to prevent further migration of constituents in groundwater across the property boundary (active).

The perimeter system currently consists of eight extraction wells (to collect groundwater), six injection wells (to redistribute treated groundwater), and 11 monitoring wells.

Description of Current Groundwater Conditions

The principal constituent found in groundwater associated with former site operations is trichloroethene (TCE). It was mainly used as a solvent to remove grease from metal parts. TCE can be found in low concentrations in some household products, including typewriter correction fluid, paint removers, adhesives, and spot removers. Further information on TCE can be accessed at the end of this fact sheet.

Three monitoring wells in a small central area of the Lockheed Martin property also contain residual fuel oil on the water table. Surrounding monitoring data indicates the fuel oil is not migrating. A recovery system actively removes fuel oil from this area.

In 1991, GE installed four off-site groundwater monitoring wells. Monitoring has been conducted annually as directed by the NJDEP. Two of these wells (OMW-1 and OMW-4) showed no evidence of impact during a three-year period of sampling and were closed in coordination with the NJDEP. The third well (OMW-2), which Lockheed Martin continues to monitor, has never shown the presence of TCE or related compounds. The fourth well (OMW-3) has shown steadily decreasing trends of TCE.

In 2009 Lockheed Martin installed five additional off-site wells to further delineate groundwater across Borton Landing Road. Lockheed Martin also installed an off-site monitoring well to delineate groundwater south of Marne Highway under the direction of NJDEP. All properties adjacent to the facility are currently connected to the municipal water system.

NJDEP approved and established a groundwater Classification Exception Area (CEA) and Well Restriction Area (WRA) for the onsite and offsite groundwater impacts in March 2002. The CEA and WRA are expected to be in effect through 2030.

Lockheed Martin continues to evaluate the environmental conditions at the site to ensure that impacts from groundwater are promptly mitigated.

Because of recent studies of the potential for vapor intrusion (the potential for volatile organic compounds in groundwater to affect the quality of indoor air) to occur under certain circumstances, Lockheed Martin expanded its remediation efforts in 2007 to include vapor intrusion testing in cooperation with the NJDEP.

Actions to Minimize Impact to the Public

The information below identifies actions by Lockheed Martin in response to site conditions.

- The potential for exposure to constituents in the drinking water has been eliminated with the connection of residential drinking water sources to the Moorestown municipal water supply system.
- The perimeter remediation system has been actively removing TCE and other constituents from shallow groundwater since 1995.
- NJDEP established a CEA and WRA for the area of the plume, including the area under the Wexford development in 2002, to restrict use of groundwater in the area.
- Lockheed Martin is continuing to assess groundwater and vapor intrusion conditions in the area.

Contact Information

Documentation associated with these remediation activities, including reports and sampling results, is available through the NJDEP. For additional information on TCE, the following online resources are recommended:

<http://www.atsdr.cdc.gov/toxfags/af.asp?id=172&tid=30>

<http://nj.gov/health/eoh/rtkweb/documents/fs/1890.pdf>

For additional information regarding the site, please contact Brad Heim, Lockheed Martin at 856-722-4657 or the NJ Licensed Site Remediation Professional (LSRP), Marion Craig of URS at 973-883-8500.