

# Hercules, Inc. (Gibbstown Plant)

## New Jersey

EPA ID#: NJD002349058

### EPA REGION 2 Congressional District(s): 01

Gloucester

Gibbstown

#### NPL LISTING HISTORY

Proposed Date: 12/1/1982

Final Date: 9/1/1983

## Site Description

An organic hydroxide/peroxide manufacturing facility is located on the 350-acre Hercules, Inc. (Gibbstown Plant) site. An unlined solid waste disposal area which was used by DuPont prior to 1952 and then by Hercules from 1952 to 1974, is located on the site. The companies disposed of waste materials from manufacturing processes, including waste resulting from the production of aniline, in two unlined disposal pits. In 1980, the U.S. Geological Survey conducted tests of the aquifer beneath the site. The groundwater was found to be contaminated with volatile organic compounds (VOCs).

Hercules is located on the banks of the Delaware River. Clonmell Creek runs through the site and discharges into the Delaware River. Approximately 13,000 people live within a 3-mile radius of the site. Area residents are served by municipal water wells.

Site Responsibility: This site is being addressed through federal, state, and potentially responsible parties' actions

## Threat and Contaminants

The groundwater was found to be contaminated with benzene, cumene, phenols, and lead. The soil was found to be contaminated with VOCs and heavy metals, including lead. Area residents are supplied with water by municipal water wells that do not contain contaminants above health-based levels. However, if the contamination in the aquifer migrates, these wells may be threatened. If pollutants leach from the disposal area into the surrounding wetlands or Clonmell Creek, wildlife may be harmed.

## Cleanup Approach

This site is being addressed in two long-term remedial phases focusing on the cleanup of the solid waste disposal area and cleanup of the process plant area.

### Response Action Status

**Solid Waste Disposal Area:** Hercules, under state monitoring, has completed an investigation to determine the nature and extent of contamination in the solid waste disposal area. Eleven monitoring wells have been installed in this area as part of this investigation. A Record of Decision (ROD), selecting a remedy for the contamination in the solid waste disposal area was issued by the State in January 1996. The selected remedy includes consolidation of miscellaneous waste in the solid waste disposal area on the two existing tar pits, capping of the waste, and covering the contaminated sediment in the North Ditch with a layer of clean imported fill. The design of this remedy is currently being conducted by Hercules, Inc.

**Plant Process Area:** Hercules Inc., under State monitoring, is treating contaminated groundwater and has conducted an investigation of the nature and extent of contamination in and around the manufacturing plant area. Additional focused investigations of site contamination and an ecological risk assessment are being conducted. An evaluation of alternatives for the remediation of the manufacturing plant area will be conducted by Hercules Inc.

**Site Facts:** In 1984, Hercules commenced operation of a groundwater extraction and treatment system in the Plant Process Area of the site. An Administrative Order on Consent (ACO) was issued by the State in 1986 to Hercules to investigate the nature and extent of site contamination, evaluate cleanup alternatives for both areas of the site, and continue the operation of the groundwater extraction and treatment system. Another ACO was issued by the State in October 1996, which requires Hercules to design and implement the remedy selected in the ROD.

In June 2008, EPA requested that the PRP undertake the above-noted investigatory work under an ACO with EPA. Discussions between the parties are underway.

## **Cleanup Progress**

Operation of the groundwater extraction and treatment system in the Plant Process Area of the site has minimized the migration of site-related groundwater contamination, thereby mitigating contamination of municipal wells which provide drinking water for residents in the vicinity of the site. To date, the system has recovered and treated over 2 billion gallons of contaminated groundwater. Continued operation of the system will mitigate impact to municipal wells in the future.

Implementation of the remedy selected for the Solid Waste Disposal Area of the site will minimize the potential for direct contact with the waste material through consolidation of the waste and installation of a cap over the waste material.

## **Site Repositories**

Greenwich Public Library, 411 Swedesboro Road, Gibbstown, NJ 08027-1727

EPA Region 2 Superfund Records Center, 290 Broadway, 18th Floor, New York, NY 10007-1866