

# Monitor Devices/ Intercircuits Inc.

## New Jersey

EPA ID#: NJD980529408

### EPA REGION 2

Congressional District(s): 04

Monmouth

Lakewood Industrial Park

NPL LISTING HISTORY

Proposed Date: 4/1/1985

Final Date: 6/1/1986

## Site Description

From 1977 to 1981, Monitor Devices/Intercircuits Inc. manufactured printed circuit boards at this 2-acre site. The manufacturers leased the property from the site owner. Two structures stand on the property: the main building held the business office and production lines; the other was a storage shed. The process involved the use of copper, tin, lead, nickel, and gold cyanide, and treatment with sulfuric acid, fluoroboric acid, and acetone. Operators discharged process wastewater either into a small, unlined pond, or directly on the ground at the rear of the building. In addition, drums and plastic containers were improperly stored outdoors and were in poor condition. In 1980, after observing the company's waste handling practices, the State ordered it to sample groundwater and to clean up the site as necessary. The company moved out in 1981 without fully complying with the order. In 1983, Monmouth County filed criminal charges against the company for violating environmental laws. The company went bankrupt in 1988. A furniture business employing 6 to 8 workers is currently operating on site. The site is surrounded by industrial and commercial areas located next to a small airport. There are no residences within 1 mile of the site. Two public water supply wells lie about 2 miles upgradient of the site, which supply drinking water to approximately 24,000 people. An industrial well is downgradient of the site.

Site Responsibility: This site is being addressed through Federal and State actions

## Threat and Contaminants

On-site groundwater contains volatile organic compounds primarily; trichloroethylene and 1,1-dichloroethylene. The public may be at risk in the future if the contaminated groundwater remains untreated. The potential risk to current and future site workers to future off-site residents using groundwater as tap water exceeds EPA's thresholds of concern. Because all residents are currently using water provided by the town, there is minimal risk of consuming contaminated groundwater.

## Cleanup Approach

The Remedial Investigation/Feasibility Study conducted by EPA was completed in 2005. EPA produced a 2005 Record of Decision (ROD) that called for the implementation of in-situ bioremediation to treat the contaminated groundwater.

### Response Action Status

Groundwater and Soil: In 1986, the State began a two-phase Remedial Investigation and Feasibility Study of soil and groundwater contamination at the site. The State completed the first phase, which involved investigating soil, subsurface soil, and groundwater contamination. Due to contractual problems, the State requested that EPA assume responsibility for the site. EPA then completed the soil portion of the investigation and the initial phase of the groundwater investigation. Data from the initial phase of the groundwater investigation indicated that the groundwater plume was larger than originally expected. EPA conducted an expanded groundwater investigation to determine the full extent of the groundwater plume. In conducting the expanded investigation, EPA sought to gain access to several of the adjoining properties. Most of the property owners refused EPA's request for access. After many delays, EPA eventually gained access to the majority of the adjoining properties and was able to complete the remaining field activities for the remedial investigation. After approving the Remedial Investigation and the Feasibility Study Reports, EPA signed a Record of Decision in September 2005 for the remediation of contaminated groundwater at the site. The selected remedy in EPA's Record of Decision calls for the implementation of in-situ bioremediation to treat the volatile organic compounds in the groundwater.

A second Record of Decision that addressed the soil contamination was signed in 2006. This Record of Decision determined that the soils at the site did not pose any risk to human health or the environment and called for no further action to be taken.

As a part of the Remedial Design, EPA conducted a Treatability Study to determine how contaminants would react to different in-situ treatment/ingredients, this study was completed in August 2008 and concluded that in-situ bioremediation can effectively treat the contaminants in the groundwater. The Final Remedial Design Report was completed was also completed in August 2008. The Final Design calls for injection of bio-remediation agents into the groundwater over a five-year period, followed by groundwater monitoring for another ten to fifteen years.

## **Cleanup Progress**

After adding this site to the NPL, EPA performed preliminary investigations and determined that no immediate actions were required at the Monitor Devices/Intercircuits Inc., Site to protect human health and the environment, prior to the completion of the Remedial Investigation and Feasibility Study (RI/FS). Upon completion of the RI/FS in 2005, EPA issued a Record of Decision (ROD), the ROD called for the implementation of bioremediation technology to treat the contaminated groundwater at the site. The Remedial Design and Treatability Study were completed in 2008. With the completion of the Remedial Design, EPA will be implementing the remedy based on the ROD and the Final Remedial Design beginning in 2009. Construction activities are scheduled for spring, 2010. Monitor Devices received American Resource and Recovery Act (ARRA) funding in fiscal year 2009. The \$3 million in ARRA funding for this site is being used to initiate remedial action activities associated with the clean up of contaminated groundwater. Mobilization for the initiation of field activities is expected to occur in the Spring. As reported in [recovery.gov](http://recovery.gov), approximately one quarter of a job was created at this site during the current reporting period. It is anticipated that additional jobs will be created for this site once work is fully underway. For additional information regarding jobs created please refer to the [recovery.gov](http://recovery.gov) website.

## **Site Repositories**

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