

RECORD OF DECISION
1993 FINAL

APPLIED MATERIALS, INC
SANTA CLARA, CA

DECLARATION STATEMENT

SITE NAME AND LOCATION

Applied Materials, Inc.; Santa Clara County
Santa Clara, CA

STATEMENT OF BASIS AND PURPOSE

This decision document presents the selected remedial action for the Applied Materials Site, located in Santa Clara, CA, developed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. Section 9601, (CERCLA) and the National Oil and Hazardous Substances Pollution Contingency Plan, 40 C.F.R Part 300, 55 Feb. Reg. 8666 (3/9/90) (NCP). The decision is based on the administrative record for the site.

The State of California concurs on the selected remedy.

DESCRIPTION OF THE REMEDY

The EPA has determined that no further remedial action other than that already implemented at the site is required to ensure protection of human health and the environment. A remedy for groundwater contamination was previously selected and documented in the September 28, 1990 Record of Decision (ROD) for this site.

The earlier ROD did not address cleanup of soils, because further evaluation of contaminated soils known to exist under Building 1 and the utility pad and dock was underway. Further analysis of the data showed that the unsaturated portion of the soil located at the surface and near surface were not contaminated and that the contaminated soils, under investigation at the time of the first ROD, were in the saturated portion of the soils beneath the structures. Since these saturated zone soils, which begin about with feet below the surface, are part of the aquifer that contains the groundwater, the remedy selected in groundwater operable unit ROD provides for remediation of this contamination.

The response action that is underway consists of the following major components:

- a. Continue pumping from the existing groundwater extraction wells until the Maximum Contaminant Levels (MCLs) are not exceeded;

- b. Treat extracted groundwater using an existing air stripping system;
- c. Continue groundwater monitoring at the site during the cleanup period;
- d. Implement institutional controls, such as deed restrictions, which will control and restrict the withdrawal and use of contaminated groundwater and control and limit activities that could result in exposure to volatile organic compound (VOC) contamination. Controls and restrictions within the plume will be necessary until drinking water levels have been achieved for all VOCs.
- e. Reclamation and/or reuse of 100% of the groundwater that is extracted and treated is a goal of this remedial action;
- f. Discharge treated water off-site to a storm sewer system tributary of San Tomas Creek pursuant to an NPDES permit.

STATUTORY DETERMINATIONS

The selected remedy is protective of human health and the environment, complies with federal and State requirements that are legally applicable or relevant and appropriate to the remedial action, and is cost effective. This remedy utilizes permanent solutions and alternative treatment or resource recovery technologies to the maximum extent practicable and satisfies the statutory preference for selecting remedies that employ treatment as a principal element and that significantly and permanently reduces the toxicity, mobility, or volume of the hazardous substances.

A review of the remedial action will be conducted within five years of implementation of the remedy to insure that the remedy continues to provide protection of human health and the environment.

8.25.93

Date



John Wise, Acting
Regional Administrator
EPA Region IX