

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. R2-2005-0042

RESCISSION OF SITE CLEANUP REQUIREMENTS (ORDER NO. 99-044) FOR:

INTEL CORPORATION  
FAB 1 FACILITY

for the property located at

3601 JULIETTE LANE  
SANTA CLARA, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter the Board), finds that:

1. **Board Orders:** The Board adopted final site cleanup requirements, Order No. 99-044, for this site on June 16, 1999. The site was in this Order designated as a containment zone, pursuant to State Board Resolution No. 92-49, as amended.
2. **Summary of Investigation and Remediation Activities:** Intel in 1979 constructed a facility for semiconductor manufacturing at the above property. Intel has operated solvent storage, distribution, and recovery systems onsite as part of semiconductor manufacturing operations that took place from 1980 until 1991. Remedial investigation began in 1985 after the discovery that the piping from an underground diesel storage tank had leaked. During the investigation, it was discovered that solvents, including the volatile organic compounds (VOCs) 1,1,1-TCA, 1,1-DCA, 1,1-DCE, and TCE were also present in groundwater. No definite source for the VOCs was identified, although the source area roughly coincided with the underground diesel storage tank. Total VOC concentrations ranged up to 560 ug/l initially in the shallow water-bearing zone, the only zone impacted. The diesel tank and polluted soil were removed and a groundwater extraction well was installed. Groundwater extraction and treatment continued through 1994 at which time pulsed pumping trials were initiated to see if the removal efficiency could be increased. The pulsed pumping trials were interrupted by a diesel leak from the replacement diesel underground storage tank about 50 feet from the original release location. A second groundwater extraction well was installed and

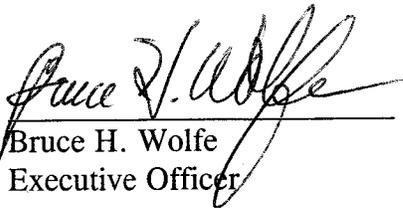
both extraction wells were operated until the concentration of diesel in groundwater was reduced to 400 ug/l or less. The pulsed pumping trials were then resumed. It was determined that groundwater extraction could no longer remove significant amounts of VOCs and extraction ceased in 1997. Total VOC levels were in the 100 to 200 ug/l range. In 2004 Intel initiated a program of injecting Hydrogen Release Compound (HRC) to see if VOC concentrations could be brought low enough to achieve site closure. The HRC injection has further reduced VOC concentrations in groundwater. Total VOC concentrations in groundwater monitoring wells have been reduced to less than 50 ug/l.

3. **Basis for Rescission:** Site conditions meet the criteria for low-risk closure of cleanup cases. The source of pollution at the site has been removed. Polluted soil has been cleaned up to levels that are protective of human health and groundwater. The groundwater extraction and treatment system and subsequent HRC injection have reduced groundwater pollutant levels in monitoring wells to below 50 ug/l. Subsequent monitoring showed that the pollutant plume has remained stable or slowly decreased. The only water-bearing zone at the site that has been impacted is the shallow zone, which is found at approximately 11-30 feet below ground surface. Shallow groundwater is not extracted for drinking water or any other use at or near the site. A deed restriction was recorded with the County of Santa Clara on February 11, 2003, prohibiting the extraction of shallow groundwater on the site for any purpose. Natural processes will reduce the concentrations of chemicals in groundwater to drinking water standards before such time as the groundwater may be needed for water supply purposes. Consequently, it is appropriate to terminate groundwater monitoring activities and rescind Order No. 99-044. No further remedial action is needed at this site.
4. **CEQA:** This action rescinds an order to enforce the laws and regulations administered by the Board. As such, this action is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15321 of the Resources Agency Guidelines.
5. **Notification:** The Board has notified the discharger and all interested agencies and persons of its intent under California Water Code Section 13304 to rescind site cleanup requirements for the discharge, and has provided them with an opportunity to submit their written comments.
6. **Public Hearing:** The Board, at a public meeting, heard and considered all comments pertaining to this discharge.

**IT IS HEREBY ORDERED**, pursuant to Section 13304 of the California Water Code, that Order No. 99-044 is rescinded.

**IT IS FURTHER ORDERED** that the discharger shall properly close all monitoring and extraction wells consistent with applicable local agency requirements, and shall document such closure in a technical report to be submitted to the Board within 30 days following the completion of closure activities.

I, Bruce H. Wolfe, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on September 21, 2005.

  
Bruce H. Wolfe  
Executive Officer

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FAILURE TO COMPLY WITH THE REQUIREMENTS OF THIS ORDER MAY SUBJECT  
YOU TO ENFORCEMENT ACTION, INCLUDING BUT NOT LIMITED TO:  
IMPOSITION OF ADMINISTRATIVE CIVIL LIABILITY UNDER WATER CODE  
SECTIONS 13268 OR 13350, OR REFERRAL TO THE ATTORNEY GENERAL FOR  
INJUNCTIVE RELIEF OR CIVIL OR CRIMINAL LIABILITY  
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