UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 9
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Addendum to Fourth Five-Year Review Report Intel Magnetics Superfund site Santa Clara, Santa Clara County, California April 2012

The Five-Year Review report (Report) for the Intel Magnetics Site in Santa Clara California, was signed by Kathleen Salyer, Assistant Director, Superfund Division, on September 26, 2012. The protectiveness determination was deferred because of the potential for vapor intrusion from the groundwater into the former Micro Storage building. The statement in the Report regarding protectiveness was as follows:

> *"A protectiveness determination of the remedy at the IM/MSC Site cannot be made until a vapor intrusion assessment is conducted. It is expected that this action will be completed by October 2013, at which time a protectiveness determination will be made via an addendum to the Fourth Five-Year Review. In addition, to be protective in the long term, the following actions need to be completed: a deed restriction is placed on the IM property that prevents the use of Site shallow groundwater for drinking water; and a ROD Amendment or ESD is issued to update the groundwater remedy."*

This addendum addresses the vapor intrusion issue.

Progress Since the Five-Year Review Completion Date

Background:

The Intel Magnetics site is a one acre facility that produced and tested magnetic products and computer memories. Micro Storage occupied the site from 1985 to 1986 and used the facility for research, development and pilot manufacturing. Micro Storage also occupied a two acre property adjacent to and upgradient from the IM parcel that contributed to the contamination. Groundwater at the site is contaminated with volatile organic compounds (VOCs), believed to have resulted from surface spills and a leak from an underground storage tank. Both Intel Magnetics and Micro Storage used a variety of toxic chemicals, primarily chlorinated organic solvents, which have contaminated groundwater in the area. Groundwater is approximately 30 feet below ground surface.

In the process of completing the 2012 Five Year Review, it was discovered that the potentially responsible parties has ceased all sampling and analysis of the groundwater. Therefore, EPA collected and analyzed samples in 2012 to assess the protectiveness of the remedy. Results of this sampling showed elevated levels of TCE in a groundwater sample from well IM-10 located close to the former Micro Storage building. These elevated levels indicated that vapor intrusion might be possible and could pose a health risk to the occupants of the building. Because of this the protectiveness determination at the Site was deferred until a vapor intrusion investigation could be performed.

Vapor Intrusion Data and Analysis:

On February 11th 2013, seven indoor air samples were collected from the former Micro Storage building. One outdoor ambient air sample was collected from a location between well IM-10 and the building. Building locations were in a cubical area, a utility room, an office, the sprinkler riser room, and two locations based on the Photo-ionization Detector readings during sampling. Both breathing zone and preferential pathway samples were collected. All samples were collected over an eight hour period using summa canisters. Sample analysis was completed by the R9 Laboratory staff. All of the samples showed non-detect results for TCE and other semi-volatile constituents that were included in the analysis.

Table 1. Air Sampling Results

Sample ID	Sample Location	Vinyl Chloride	1,1-DCE	Trans-1,2-DCE	1,1-DCA	TCE	PCE
IMMC-OUT	Outdoor	ND	ND	ND	ND	ND	ND
IMMC-121-PATH1	Indoor	ND	ND	ND	ND	ND	ND
IMMC-121-PATH2	Indoor	ND	ND	ND	ND	ND	ND
IMMC-121-AMB1	Indoor	ND	ND	ND	ND	ND	ND
IMMC-105-AMB2	Indoor	ND	ND	ND	ND	ND	ND
IMMC-105-AMB3	Indoor	ND	ND	ND	ND	ND	ND
IMMC-109-AMB4	Indoor	ND	ND	ND	ND	ND	ND

All results are reported in $\mu g/m^3$. Detection limits are 0.34 $\mu g/m^3$ for PCE and 0.27 $\mu g/m^3$ for TCE. Both detection limits are well below EPA's long term risk screening level for indoor air.

Issues and Recommendations

There are no issues with respect to the potential for vapor intrusion.

Protectiveness Statements

Based on new information and actions taken since the Five-Year Review completion date, the sitewide protectiveness statement is being revised as follows:

The remedy at Intel Magnetics Site is currently protective in the short term. There are no exposure pathways that pose a risk to human health or the environment. It has been confirmed that vapor intrusion is not occurring. To be protective in the long term, the following actions need to be completed: a deed restriction that prevents the use of Site shallow groundwater for drinking water needs to be placed on the IM property; and a ROD Amendment or ESD is required to select an updated remedy to replace pump and treat as the remedy for the Site.

Next Five-Year Review

The next five-year review will be completed by September 2017, five years after the signature of the last five-year review report.

Kathleen Salyer
Assistant Director, Superfund Division
California Site Cleanup Branch
US EPA Region 9

Date 5/1/13

Attachments:

Sampling and Analysis Plan, Intel Magnetics, Vapor Intrusion Study, Intel Magnetics Santa Clara, California February, 2013, Prepared by: Greg Nagle, EPA

Memo, 2/27/2013, *Analytical Testing Results,* From B. Bettencamp To: D Rojas-Mickelson