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**ENVIRONMENT DEPARTMENT**

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MEMORANDUM

TO: John Kieling, Program Manager

FROM: Kirby Olson

RE: **Philips Semiconductor Contained-In Determination**

DATE: February 19, 2001

Philips Semiconductor, Inc. in Albuquerque has requested to release the purge water from their quarterly and annual sampling of wells to the soil at each well. This will require approval under RCRA (as IDW or through a contained-in determination) and an approved NOI from the GWQB. The relevant information on the wells is:

- The contamination of ground water likely results from leaching from a municipal landfill closed in 1962 (SWMU #1). The facility has no RCRA operating units.
- Purge water is currently drummed and added to the wastewater stream at the facility.
- The only hazardous constituent detected in these wells above drinking water standards is tetrachloroethene (also referred to as PCE, perchloroethylene, and tetrachloroethylene); all wells are monitored for all RCRA constituents.
- The EPA MCL for PCE is 5 µg/L. PCE detections at wells MW1, MW2, MW4, NCLF2, NCLF3, and NCLF4 exceed the EPA MCL, but have not exceeded 12 µg/L since prior to April 96 (NCLF wells came on line in Jan 97). There have only been 3 detections since that time that exceeded 10 µg/L.
- Wells NCLF5-9 have never exceeded the MCL (4-8 quarters of data).
- According to Dave Paulsen with Philips, the volume of purge water averages 20-30 gallons per well. The maximum volume for a well is 115 gallons; he believes this max volume is associated with well NCLF 8 (a deep well) that has never exceeded the MCL.
- The levels of PCE in the purge water do not represent a health risk from direct exposure. The Universal Treatment Standard under LDRs for PCE is 56 µg/L.

**Attachments:** map of well locations

Spreadsheets of sampling results (PCE in µg/L) for all wells April 96 to Oct 00

Cc: Eliza Frank

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NCLF-6

Venice Ave.

Beverly Hills Ave.

NCLF-5

San Diego Ave.

NCLF-2

Facility Boundary

Drainage ditch

Sperry Site and Wildflower Park

Parking

MW-2

MW-3

Patio

Cafe

Administrative Center

Parking

MW-1

Energy Center

Fabrication building

Chemical Storage

MW-4

NCLF-4

San Mateo Blvd.

Pan American Highway

Interstate 25

NCLF-3

NCLF-8

Drainage ditch

Modesto Ave.

Eagle Rock Ave.

Oakland Ave.

NCLF-7

NCLF-9



0 500 ft

**Explanation**

● Monitor well

— Fence



Daniel B. Stephens & Associates, Inc.

3-10-00

JN 9203

PHILIPS SEMICONDUCTORS, INC.  
**Site Plan**

Figure 2

