

7/7/94  
D. Neleish

**Philips Semiconductors (formerly Signetics Corp.)  
NMD000709782**

Facility Background Information

The company is an integrated circuits manufacturer. The fabrication process consists of a series of chemical and metallurgical procedures. These consist of various masking, chemical etching, cleaning, oxidation, metalization, doping and alloy processes. Their Permit establishes requirements for the temporary storage of certain corrosive, toxic and solvent wastes. The hazardous wastes are stored in 55-gallon drums and three 5,000 gallon tanks. The waste is ultimately shipped to an approved off-site facility.

DATE                      DESCRIPTION

- 11/6/80                      • Letter from City of Albuquerque to Signetics
- Confirms that the city waste disposal site on land now owned by Signetics was opened in 1963 and closed in 1965.
  
- 5/18/81                      • Letter from Signetics to EPA
- During excavation for bldg. construction, abandoned landfill was discovered. EP Tox revealed trace quantities of pesticides & metals.
  
- 2/15/84                      • Part B call-in
  
- 8/9/84                        • Part B application received by EPA
  
- 2/5/85                        • State permit application complete
  
- 2/11/85                      • State draft permit public notice intent to issue permit
  
- 4/23/85                      • EPA requested HSWA information
  
- 6/1/85                        • HSWA permit application complete
  
- 9/23/85                      • Completed Preliminary Assessment
  
- 10/18/85                    • Preliminary Assessment concurred on by the NMED
  
- 10/26/85                    • EPA developed HSWA Draft Permit
  
- 4/1/86                        • Final RCRA Permit issued by NMED
- Effective Date of Permit: 4/1/86
- Expiration Date of Permit: 4/1/96
- Permit includes the storage of various solvents,

*Handwritten notes:*  
4/1/86  
4/1/96

including tetrachloroethylene (PCE);  
trichloroethylene (TCE); trichloroethane (TCA)

- 10/26/92 RFA prepared by PRC:
- 8 SWMUs identified; further investigation recommended at 1 SWMU (the Coronado Landfill)
  - Groundwater is from 190 to 220 fbg
- 12/29/92
- CA Stabilization Questionnaire (Rich Mayer)
  - Downgradient MWs have detected tetrachloroethane
  - 5/19/92 data - 9, 8.7, 4.8 ppb TCE (MCL = 5 ppb)
- 04/06/93
- EPA and Philips held meeting in Dallas to discuss revision to Permit to require horizontal and vertical delineation of contaminant plume
- 04/16/93
- EPA received letter from Philips
  - Philips believes proposed modification is unnecessary due to low concentration of contaminants and "clear indication of an off-site source"
- 9/26/93
- Draft Report to EPA/Superfund from Fluor Daniel, Inc.
  - Results of field sampling for SI at Coronado Landfill
    - Landfill operated from 1963 to 1964 or 1965
    - In 1978 or 1979 the City sold the property to Signetics
    - Site construction began in 1980, exploratory borings discovered fill mat'l & methane gas
    - In 1983, drainage ditches were excavated along N and S side of property. Landfill material was exposed during work on northern ditch.
    - 4 MWs are located on property. Each has a dedicated bladder pump installed.
    - MWs are sampled quarterly & results sent to NMED
    - Depth to groundwater is about 250 feet
    - 35 methane gas vents were installed by Signetics. Methane gas has been as high as 500,000 ppm.
    - Fill material is believed to lay in 2 former arroyos that cross property from E to W
    - Land subsidence has occurred, esp. S of bldg.
    - Existing loading dock is believed located in former fill area, but not the building.
    - Approx. 77,400 cubic yards of fill was removed from site prior to construction
    - Borings indicate fill may exist up to 30 fbg.
    - Nearest public DW well is 1 mile SE of site
    - Groundwater sampling results:
      - Selenium, 20.2 J ppb, MW-02
      - Zinc, 28.9 ppb, MW-03
      - Tetrachloroethene, 11 ppb (MW-02) to 14 ppb

(MW-01)

bis(2-ethylhexyl)Phthalate (was ND in  
background or blank data, so may come  
from the site)

- Surface Soil Sampling results:

Chromium, 20.9 ppm

Lead, up to 72.4 ppm

Mercury, 0.09 ppm

Polyaromatic Hydrocarbons, including  
benzoperylene, up to 58,000 ppb

Pesticides, various

Summary of Analytical Data  
 Philips/Signetix Corporation  
 NMD000709782

Sample Date	Monitoring Well No.	1,1,2,2-Tetrachloro-ethane (ppb)	Tetrachloro-ethene (ppb)	Method
9/19/88	1	30	30	601
	2	14	14	
	3	30	30	
	4	ND	ND	
5/16/89	1	25	25	601
	2	14	14	
	4	9.2	9.2	
9/13/89	1	15	ND	601
	2	9.9	ND	
	3	6.8	ND	
	4	ND	ND	
12/06/89	1	17	17	601
	2	?	?	
	3	ND	ND	
	4	17	17	
03/28/90	2	13	ND	8010
06/12/90	1	ND	20	8010
	2	ND	13	
	3	ND	ND	
	4	ND	8.1	
09/12/90	1	ND	17	8010
	2	ND	11	
	3	ND	ND	
	4	ND	7.6	
12/05/90	1	ND	24	8010
	2	ND	15	
	3	ND	ND	
	4	ND	11	
12/04/91	1	ND	13	8010
	2	ND	9.3	
	3	ND	6.2	
	4	ND	ND	

Summary of Analytical Data  
 Philips/Sigmetics Corporation  
 NMD000709782

Sample Date	Monitoring Well No.	1,1,2,2-Tetrachloroethane (ppb)	Tetrachloroethene (ppb)	Method
04/09/91	1	ND	11	8010
	2	ND	4.7	
	3	ND	ND	
	4	ND	5.7	
06/12/91	1	ND	14	8010
	2	ND	9.2	
	3	ND	ND	
	4	ND	6.5	
09/11/91	1	ND	12	8010
	2	ND	11	
	3	ND	ND	
	4	ND	7.0	
03/25/92	1	ND	13	8010
	2	ND	9.5	
	3	ND	ND	
	4	ND	4.7	
05/19/92	1	ND	9.0	8010
	2	ND	8.7	
	3	ND	ND	
	4	ND	4.8	
09/22/92	1	ND	11	8010
	2	ND	10	
	3	ND	ND	
	4	ND	5.5	
01/06/93	1	ND	6.2	8010
	2	ND	7.1	
	3	ND	ND	
	4	ND	5.4	