



# California Regional Water Quality Control Board Los Angeles Region

Winston H. Hickox  
Secretary for  
Environmental  
Protection

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Gray Davis  
Governor

June 16, 2003

Mr. Troy Schulze, Environmental Specialist  
Skyworks Solutions, Inc.  
2427 W. Hillcrest Dr.  
Newbury Park, California 91320

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED  
CLAIM NO. 7002 2410 0006 3316 4517

Dear Mr. Schulze:

**GENERAL WASTE DISCHARGE REQUIREMENTS FOR GROUNDWATER REMEDIATION AT PETROLEUM HYDROCARBON FUEL AND/OR VOLATILE ORGANIC COMPOUND IMPACTED SITES – SKYWORKS SOLUTIONS, INC., 2427 WEST HILLCREST DRIVE, NEWBURY PARK, CALIFORNIA (SLIC FILE NO. 423, CI-8498)**

We have completed our review of your application for Waste Discharge Requirements to infiltrate treated groundwater from a pump-and-treat system into the shallow aquifer at the subject site.

Skyworks Solutions, Inc. (hereinafter Discharger) owns and operates a facility in the City of Newbury Park, California. This facility consists of two separate structures: Buildings 886 and 887.

Building 887 was constructed with a groundwater collection trench and de-watering system to prevent flooding of the basement area beneath the building. Volatile organic compounds (VOCs) have been detected in groundwater samples collected from the dewatering system. The VOCs detected include trichloroethylene (TCE), 1,1-dichloroethylene (DCE), Freon 113, and 1,1,1-trichloroethane (TCA). This contamination was believed to have originated from leaks from two concrete tanks located on the west side of the adjacent Building 886. The previous owner or lessee of the property reportedly used these tanks for temporary storage of chemical wastes. The tanks were approximately ten feet long, five to six feet wide, and six to eight feet deep. In 1984, the tanks were abandoned by filling with sand and capping with asphalt, under the direction of the Ventura County Environmental Health Department.

Since March 1988, the Discharger has been treating the groundwater collected by the de-watering system using granular activated carbon (GAC) units and discharging to a storm drain under a National Pollutant Discharge Elimination System (NPDES) permit. A NPDES permit was issued on March 1, 1988 (NPDES No. CA0060348, Board Order No. 88-29). This permit was renewed on June 10, 1996 (Board Order No. 96-048). However, the Discharger has elected to discharge the treated groundwater back to the aquifer by passive infiltration rather than discharging to surface water.

On September 9, 2002, the Discharge submitted a report of waste discharge (RoWD) for discharge of the treated groundwater to land, and also requested enrollment under the General Waste Discharge Requirement (WDR) Order No. R4-2002-0030. This General WDR Order requires an approved Remediation Action Plan (RAP).

**California Environmental Protection Agency**

\*\*\*The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption\*\*\*  
\*\*\*For a list of simple ways to reduce demand and cut your energy costs, see the tips at: <http://www.swrcb.ca.gov/news/echallenge.html>\*\*\*



Our mission is to preserve and enhance the quality of California's water resources for the benefit of present and future generations.

In January 2003, the Discharger submitted for approval a proposed plan for modification of the RAP, which was prepared in 1988 by IT Corporation to remediate the soil and groundwater contamination at the site. In the proposed RAP modification, the Discharger proposes to treat the contaminated groundwater by passing it through two activated carbon canisters connected in series. Treated groundwater from the treatment system will be re-injected to a shallow groundwater zone (approximately 30 to 35 feet below ground surface) through an existing well-field.

The well field has an infiltration capacity of approximately 21,600 gallons per day and consists of four shallow zone recharging wells (R-1, R-2, R-3, and R-4) (refer to the attached figure: Location of Monitor Wells).

The well-field is currently being used as a recharge area to create a hydrological pressure ridge to prevent inorganic contaminant-laden groundwater originating at the adjacent Semtech facility from migrating toward the groundwater dewatering system at Building 887. Municipal water was previously used as the recharge water in the well field. The RAP modification was approved on February 11, 2003, by this Board staff.

Once this enrollment becomes effective, the Discharger intends to submit a termination request for the current NPDES permit. The Discharger intends to have a sanitary sewer connection available as a backup system in the event of a recharge well system failure.

Regional Board staff have reviewed the information provided and have determined that the proposed discharge meets the conditions specified in Order No. R4-2002-0030, "General Waste Discharge Requirements for Groundwater Remediation at Petroleum Hydrocarbon Fuel and/or Volatile Organic Compound Impacted Sites," adopted by this Regional Board on January 24, 2002.

Enclosed are your Waste Discharge Requirements, consisting of Regional Board Order No. R4-2002-0030 (Series No. 015) and Monitoring and Reporting Program No. CI-8498.

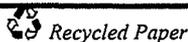
The Monitoring and Reporting Program requires you to implement the monitoring program on the effective date of this enrollment (June 16, 2003) under Regional Board Order No. R4-2002-0030. All monitoring reports should be sent to the Regional Board, ATTN: Information Technology Unit.

When submitting monitoring or technical reports to the Regional Board per these requirements, include a reference to File No. CI-8498, which will assure that the reports are directed to the appropriate file and staff. Also, do not combine other reports with your monitoring reports. Submit each type of report as a separate document.

We are sending a copy of Order No. R4-2002-0030 only to the applicant. A copy of the Order will be furnished to anyone who requests it.

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Mr. Troy Schulze  
Skyworks Solutions, Inc.

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June 16, 2003

If you have any additional questions, please contact Mr. Orlando H. Gonzalez at (213) 620-2267.

Sincerely,



Dennis A. Dickerson  
Executive Officer

Enclosures:

1. Board Order No. R4-2002-0030
2. Monitoring and Reporting Program No. CI-8498
3. Standard Provisions applicable to Waste Discharge Requirements (addressee only)

cc: Mr. Robert Sams, Office of Chief Counsel, State Water Resources Control Board  
Mr. Michael Lauffer, Office of Chief Counsel, State Water Resources Control Board  
Mr. Kurt Souza, Cal. DHS, Region 5 - So Cal. Branch, Drinking Water Field Operation  
Mr. Doug Beach, Ventura County Environmental Health Division, Ventura County  
Mrs. Angelica Castaneda, LARWQCB -Well Investigation Program  
Mr. Kurt J. Blust, Haley & Aldrich, Inc.  
Mr. Jeff Nagler, WDR, Watermaster Central Basin  
Dr. Bruce Moury, WRD, Southern California Water Replenishment District  
Mr. Donald H. Nelson, Public Work Director, City of Thousand Oaks

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**STATE OF CALIFORNIA  
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION**

**MONITORING AND REPORTING PROGRAM NO. CI-8498  
FOR  
SKYWORKS SOLUTIONS, INC.**

**ENROLLMENT UNDER REGIONAL BOARD  
ORDER NO. R4-2002-0030 (Series No. 016)  
SLIC FILE NO. 423**

I. MONITORING AND REPORTING REQUIREMENTS

- A. Skyworks Solutions, Inc. (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment (June 16, 2003) under Regional Board Order No. R4-2002-0030. The first monitoring report under this program, for the monitoring period July – September 2003, shall be received at the Regional Board by October 15, 2003. Subsequent monitoring reports shall be received at the Regional Board according to the following schedule:

| <u>Monitoring Period</u> | <u>Report Due</u>    |
|--------------------------|----------------------|
| January – March          | April 15             |
| April – June             | July 15              |
| July – September         | October 15           |
| October – December       | January 15           |
| Annual Summary Report    | March 1 of each year |

- B. If there is no discharge during any reporting period, the report shall so state. Monitoring reports must be addressed to this Regional Board, Attention: Information Technology Unit.
- C. By March 1 of each year, the Discharger shall submit an annual summary report to the Regional Board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous calendar year. In addition, the Discharger shall discuss the compliance record and the corrective actions taken or planned, which may be needed to bring the discharge into full compliance with the Requirements.
- D. Each monitoring report shall contain a separate section titled "Summary of Non-Compliance" which discusses the compliance record and the corrective actions taken or planned that may be needed to bring the discharge into full compliance with waste discharge requirements. This section shall be located at the front of the report and shall clearly list all non-compliance with discharge requirements, as well as all excursions of effluent limitations.

June 16, 2003

- E. The Discharger shall comply with requirements contained in Section G. of Order No. R4-2002-0030 "Monitoring and Reporting Requirements" in addition to the aforementioned requirements.

## II. WATER QUALITY MONITORING

### A. Influent Monitoring

Representative samples of groundwater shall be obtained from the trench and de-watering system (French drain de-watering system), prior to any treatment. This sampling station shall not be changed and any proposed change of sampling location shall be identified and approved by the Executive Officer prior to their use.

The following shall constitute the influent-monitoring program for the groundwater extraction wells:

| <u>Constituents</u>         | <u>Units</u> | <u>Type of Sample</u> | <u>Minimum Frequency of Analysis</u> |
|-----------------------------|--------------|-----------------------|--------------------------------------|
| pH                          | pH units     | grab                  | Semi-annual                          |
| Temperature                 | °F           | grab                  | Semi-annual                          |
| Benzene                     | µg/L         | grab                  | Semi-annual                          |
| Toluene                     | µg/L         | grab                  | Semi-annual                          |
| Ethylbenzene                | µg/L         | grab                  | Semi-annual                          |
| Total Xylenes               | µg/L         | grab                  | Semi-annual                          |
| Methyl Tertiary Butyl Ether | µg/L         | grab                  | Semi-annual                          |
| Carbon tetrachloride        | µg/L         | grab                  | Semi-annual                          |
| 1,1-dichloroethylene        | µg/L         | grab                  | Semi-annual                          |
| 1,4-Dioxane                 | µg/L         | grab                  | Semi-annual                          |
| 1,1-dichloroethane          | µg/L         | grab                  | Semi-annual                          |
| 1,2-dichloroethane          | µg/L         | grab                  | Semi-annual                          |
| 1,1,1-trichloroethane       | µg/L         | grab                  | Semi-annual                          |
| Trichloroethylene           | µg/L         | grab                  | Semi-annual                          |
| Tetrachloroethylene         | µg/L         | grab                  | Semi-annual                          |
| Vinyl chloride              | µg/L         | grab                  | Semi-annual                          |
| Freon 113                   | µg/L         | grab                  | Semi-annual                          |
| Total dissolved solids      | mg/L         | grab                  | Semi-annual                          |
| Sulfate                     | mg/L         | grab                  | Semi-annual                          |
| Chloride                    | mg/L         | grab                  | Semi-annual                          |
| Boron                       | mg/L         | grab                  | Semi-annual                          |
| Hexavalent chromium         | µg/L         | grab                  | Annual                               |
| Total Chromium              | µg/L         | grab                  | Annual                               |
| Priority pollutant*         | µg/L         | grab                  | one-time                             |

\* A complete list of priority pollutants (Attachment A) is attached, but the Discharger is required to test only for metals and volatile organic compounds (VOCs) on the priority pollutant list.

B. Effluent Monitoring

A sampling station shall be established at the point of discharge (the end point of the groundwater treatment system or at the passive infiltration point) and shall be located where representative samples of the effluent can be obtained. This sampling station shall not be changed and any proposed change of sampling location shall be identified and approved by the Executive Officer prior to its use.

The following shall constitute the effluent monitoring program for the treated groundwater prior to discharge to the injection wells:

| <u>Constituents</u>         | <u>Units</u> | <u>Type of Sample</u> | <u>Minimum Frequency of Analysis</u> |
|-----------------------------|--------------|-----------------------|--------------------------------------|
| pH                          | pH units     | grab                  | quarterly                            |
| Temperature                 | °F           | grab                  | quarterly                            |
| Benzene                     | µg/L         | grab                  | quarterly                            |
| Toluene                     | µg/L         | grab                  | quarterly                            |
| Ethylbenzene                | µg/L         | grab                  | quarterly                            |
| Total Xylenes               | µg/L         | grab                  | quarterly                            |
| Methyl Tertiary Butyl Ether | µg/L         | grab                  | quarterly                            |
| Carbon tetrachloride        | µg/L         | grab                  | quarterly                            |
| 1,1-dichloroethylene        | µg/L         | grab                  | quarterly                            |
| 1,4-Dioxane                 | µg/L         | grab                  | quarterly                            |
| 1,1-dichloroethane          | µg/L         | grab                  | quarterly                            |
| 1,2-dichloroethane          | µg/L         | grab                  | quarterly                            |
| 1,1,1-trichloroethane       | µg/L         | grab                  | quarterly                            |
| Trichloroethylene           | µg/L         | grab                  | quarterly                            |
| Tetrachloroethylene         | µg/L         | grab                  | quarterly                            |
| Vinyl chloride              | µg/L         | grab                  | quarterly                            |
| Freon 113                   | µg/L         | grab                  | quarterly                            |
| Total dissolved solids      | mg/L         | grab                  | quarterly                            |
| Sulfate                     | mg/L         | grab                  | quarterly                            |
| Chloride                    | mg/L         | grab                  | quarterly                            |
| Boron                       | mg/L         | grab                  | quarterly                            |
| Hexavalent chromium         | µg/L         | grab                  | Semi-annual                          |
| Total Chromium              | µg/L         | grab                  | Semi-annual                          |
| Priority pollutant*         | µg/L         | grab                  | one-time                             |

\* A complete list of priority pollutants (Attachment A) is attached, but the Discharger is required to test only for metals and volatile organic compounds (VOCs) on the priority pollutant list.

C. Groundwater Monitoring

Representative samples of groundwater shall be obtained from groundwater monitoring wells S-10, S-2, S-12, and S-13. A sampling station shall be established for each groundwater monitoring well and shall be located where representative samples can be obtained. These sampling stations shall not be changed and any proposed change of monitoring locations shall be identified and approved by the Executive Officer prior to their use. The following shall constitute the groundwater monitoring program:

| <u>Constituents</u>         | <u>Units</u> | <u>Type of Sample</u> | <u>Minimum Frequency of Analysis</u> |
|-----------------------------|--------------|-----------------------|--------------------------------------|
| pH                          | pH units     | grab                  | Annual                               |
| Temperature                 | °F           | grab                  | Annual                               |
| Benzene                     | µg/L         | grab                  | Annual                               |
| Toluene                     | µg/L         | grab                  | Annual                               |
| Ethylbenzene                | µg/L         | grab                  | Annual                               |
| Total Xylenes               | µg/L         | grab                  | Annual                               |
| Methyl Tertiary Butyl Ether | µg/L         | grab                  | Annual                               |
| Carbon tetrachloride        | µg/L         | grab                  | Annual                               |
| 1,1-dichloroethylene        | µg/L         | grab                  | Annual                               |
| 1,4-Dioxane                 | µg/L         | grab                  | Annual                               |
| 1,1-dichloroethane          | µg/L         | grab                  | Annual                               |
| 1,2-dichloroethane          | µg/L         | grab                  | Annual                               |
| 1,1,1-trichloroethane       | µg/L         | grab                  | Annual                               |
| Trichloroethylene           | µg/L         | grab                  | Annual                               |
| Tetrachloroethylene         | µg/L         | grab                  | Annual                               |
| Vinyl chloride              | µg/L         | grab                  | Annual                               |
| Freon 113                   | µg/L         | grab                  | Annual                               |
| Hexavalent chromium         | µg/L         | grab                  | Annual                               |
| Total Chromium              | µg/L         | grab                  | Annual                               |
| Total dissolved solids      | mg/L         | grab                  | Annual                               |
| Sulfate                     | mg/L         | grab                  | Annual                               |
| Chloride                    | mg/L         | grab                  | Annual                               |
| Boron                       | mg/L         | grab                  | Annual                               |

All groundwater monitoring reports must include, at minimum, the following:

- a. Well identification, date and time of sampling;
- b. Sampler identification, and laboratory identification; and
- c. Quarterly observation of groundwater levels, recorded to 0.01 feet mean sea level and groundwater flow direction.

### III. WASTE HAULING REPORT

In the event that wastes are hauled for further treatment or to a disposal site, the name and address of the hauler of the waste shall be reported in each quarterly monitoring report, along with quantities hauled during the quarter, and the location of the final point of disposal. If no wastes are hauled during the reporting period, a statement to that effect shall be submitted in the quarterly monitoring report.

### IV. OPERATION AND MAINTENANCE REPORT

The Discharger shall file a technical report with this Regional Board, no later than 30 days after receipt of these Waste Discharge Requirements, relative to the operation and maintenance program for the groundwater treatment system. The information to be contained in that report shall include, at a minimum, the following:

1. The name, address, and telephone number of the person or company responsible for operation and maintenance of the groundwater treatment system;
2. Type of maintenance (preventive or corrective); and
3. Frequency of maintenance, if preventive.

### V. MONITORING FREQUENCIES

Specifications in this monitoring program are subject to periodic revisions. Monitoring requirements may be modified or revised by the Executive Officer based on review of monitoring data submitted pursuant to this Order. Monitoring frequencies may be adjusted to a less frequent basis or parameters and locations dropped by the Executive Officer if the Discharger makes a request and the request is backed by statistical trends of monitoring data submitted.

### VI. CERTIFICATION STATEMENT

Each report shall contain the following completed declaration:

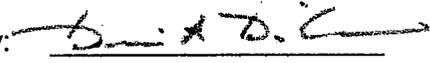
"I certify under penalty of law that this document, including all attachments and supplemental information, was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting

false information, including the possibility of a fine and imprisonment.

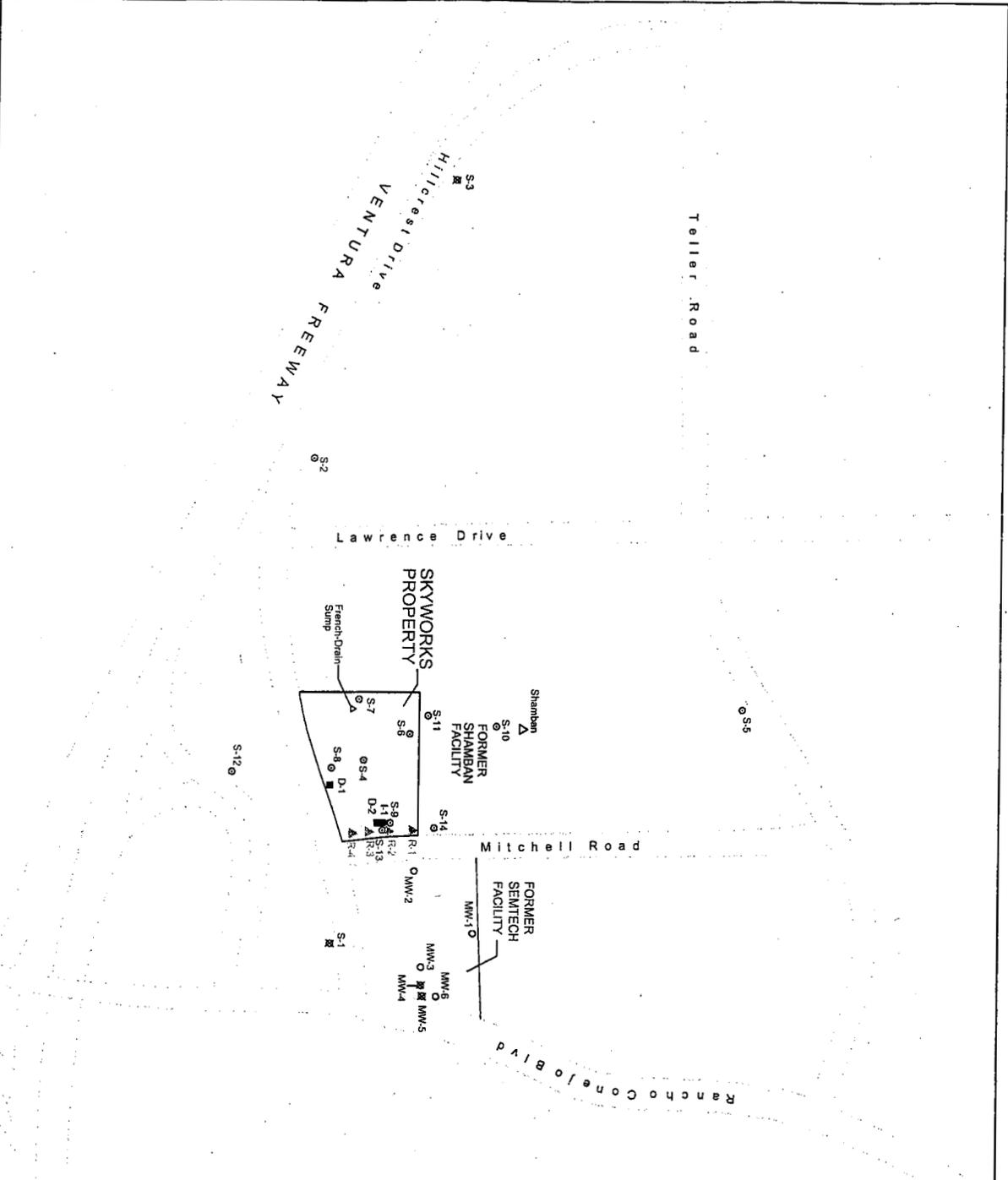
Executed on the \_\_\_\_\_ day of \_\_\_\_\_ at \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
(Signature)  
(Title)"

All records and reports submitted in compliance with this Order are public documents and will be made available for inspection during business hours at the office of the California Regional Water Quality Control Board, Los Angeles Region, upon request by interested parties. Only proprietary information, and only at the request of the Discharger, will be treated as confidential.

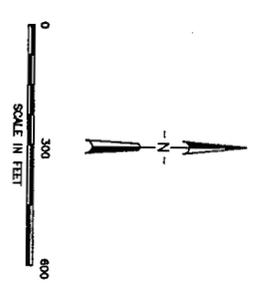
Ordered by:   
Dennis A. Dickerson  
Executive Officer

Date: June 16, 2003



**EXPLANATION**

- S-2 Groundwater Monitoring Program Well
- S-5 Shallow Zone Monitor Well
- △ R-1 Shallow Zone Recharge Well
- D-1 Lower Zone Monitor Well
- I-1 Intermediate Zone Recharge Well
- △ Shamban Production Well
- MW-6 Semtech Monitor Well
- ⊗ S-3 Abandoned Well



SKYWORX SOLUTIONS, INC.  
NEWBURT PARK, CALIFORNIA

**LOCATION OF MONITOR WELLS**

SCALE AS SHOWN

MAY 2003

# ATTACHMENT A

## PRIORITY POLLUTANTS

### Metals

Antimony  
Arsenic  
Beryllium  
Cadmium  
Chromium  
Copper  
Lead  
Mercury  
Nickel  
Selenium  
Silver  
Thallium  
Zinc

### Miscellaneous

Cyanide  
Asbestos (only if  
specifically  
required)

### Pesticides & PCBs

Aldrin  
Chlordane  
Dieldrin  
4,4'-DDT  
4,4'-DDE  
4,4'-DDD  
Alpha-endosulfan  
Beta-endosulfan  
Endosulfan sulfate  
Endrin  
Endrin aldehyde  
Heptachlor  
Heptachlor epoxide  
Alpha-BHC  
Beta-BHC  
Gamma-BHC  
Delta-BHC  
Toxaphene  
PCB 1016  
PCB 1221  
PCB 1232  
PCB 1242  
PCB 1248  
PCB 1254  
PCB 1260

### Base/Neutral Extractibles

Acenaphthene  
Benzidine  
1,2,4-trichlorobenzene  
Hexachlorobenzene  
Hexachloroethane  
Bis(2-chloroethyl) ether  
2-chloronaphthalene  
1,2-dichlorobenzene  
1,3-dichlorobenzene  
1,4-dichlorobenzene  
3,3'-dichlorobenzidine  
2,4-dinitrotoluene  
2,6-dinitrotoluene  
1,2-diphenylhydrazine  
Fluoranthene  
4-chlorophenyl phenyl ether  
4-bromophenyl phenyl ether  
Bis(2-chloroisopropyl) ether  
Bis(2-chloroethoxy) methane  
Hexachlorobutadiene  
Hexachlorocyclopentadiene  
Isophorone  
Naphthalene  
Nitrobenzene  
N-nitrosodimethylamine  
N-nitrosodi-n-propylamine  
N-nitrosodiphenylamine  
Bis (2-ethylhexyl) phthalate  
Butyl benzyl phthalate  
Di-n-butyl phthalate  
Di-n-octyl phthalate  
Diethyl phthalate  
Dimethyl phthalate  
Benzo(a) anthracene  
Benzo(a) pyrene  
Benzo(b) fluoranthene  
Benzo(k) fluoranthene  
Chrysene  
Acenaphthylene  
Anthracene  
1,12-benzoperylene  
Fluorene  
Phenanthrene  
1,2,5,6-dibenzanthracene  
Indeno (1,2,3-cd) pyrene  
Pyrene  
TCDD

### Acid Extractibles

2,4,6-trichlorophenol  
P-chloro-m-cresol  
2-chlorophenol  
2,4-dichlorophenol  
2,4-dimethylphenol  
2-nitrophenol  
4-nitrophenol  
2,4-dinitrophenol  
4,6-dinitro-o-cresol  
Pentachlorophenol  
Phenol

### Volatile Organics

Acrolein  
Acrylonitrile  
Benzene  
Carbon tetrachloride  
Chlorobenzene  
1,2-dichloroethane  
1,1,1-trichloroethane  
1,1-dichloroethane  
1,1,2-trichloroethane  
1,1,2,2-tetrachloroethane  
Chloroethane  
Chloroform  
1,1-dichloroethylene  
1,2-trans-dichloroethylene  
1,2-dichloropropane  
1,3-dichloropropylene  
Ethylbenzene  
Methylene chloride  
Methyl chloride  
Methyl bromide  
Bromoform  
Dichlorobromomethane  
Chlorodibromomethane  
Tetrachloroethylene  
Toluene  
Trichloroethylene  
Vinyl chloride  
2-chloroethyl vinyl ether  
Xylene