

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

MONITORING AND REPORTING PROGRAM NO. CI-8641
FOR
3M PHARMACEUTICALS

ENROLLMENT UNDER REGIONAL BOARD
ORDER NO. R4-2002-0030 (Series No. 034)
FILE NO. 03-035

I. MONITORING AND REPORTING REQUIREMENTS

- A. 3M Pharmaceuticals Company (hereinafter Discharger) shall implement this monitoring program on the effective date of this enrollment (September 19, 2003) under Regional Board Order No. R4-2002-0030. The first monitoring report under this program, for 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. 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.

September 19, 2003

II. WATER QUALITY MONITORING

A. Influent Monitoring

A representative sample of groundwater shall be obtained from the treatment stream influent line immediately before entry into the treatment system. This sampling station shall not be changed and any proposed change of this sampling location shall be identified and approved by the Executive Officer prior to use.

The following shall constitute the influent monitoring program for the combined groundwater stream from the extraction wells immediately before entering the treatment system:

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA Method 8015B)	µg/l	grab	Quarterly
VOCs including oxygenates (EPA Method 8260B)	µg/l	grab	Quarterly
Oil & Grease (EPA Method 413.2)	mg/l	grab	Quarterly
PH	pH units	grab	Quarterly
Temperature	°F	grab	Quarterly

µg/L: micrograms per liter; mg/L: milligrams per liter

B. Effluent Monitoring

A sampling station shall be established at the point of discharge from the treatment system (prior to the irrigation system) 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 water prior to discharge to the irrigation system:

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA Method 8015B)	µg/l	grab	Quarterly
VOCs including oxygenates (EPA Method 8260B)	µg/l	grab	Quarterly
PH	pH units	grab	Quarterly
Temperature	°F	grab	Quarterly
Sulfides	mg/l	grab	Quarterly
Sulfate	mg/l	grab	Quarterly
Chloride	mg/l	grab	Quarterly
Nitrate-Nitrogen	mg/l	grab	Quarterly

µg/L: micrograms per liter; mg/L: milligrams per liter

If any of these constituents exceed the discharge limits, the analyses frequency must be increased to weekly. After four consecutive weeks of compliance with the discharge limits, the analyses frequency may return to quarterly. The discharge must be discontinued if the four consecutive samples do not show full compliance.

C. Groundwater Monitoring

Representative samples of groundwater shall be obtained from all groundwater monitoring wells sampled for the "Progress Report for the First Semester 2003", dated July 2003. These groundwater-monitoring wells shall remain the same and any proposed change of monitoring locations shall be identified and approved by the Executive Officer prior to their use. For those constituents for which background data are not available, background concentrations must be determined before the start of irrigation. The following shall constitute the ongoing groundwater-monitoring program:

<u>CONSTITUENT</u>	<u>UNITS</u>	<u>TYPE OF SAMPLE</u>	<u>MINIMUM FREQUENCY OF ANALYSIS</u>
Total Petroleum Hydrocarbons as Gasoline (TPH-G) (EPA Method 8015B)	µg/l	grab	Quarterly
VOCs including oxygenates (EPA Method 8260B)	µg/l	grab	Quarterly
Sulfate	mg/l	grab	Quarterly
Chloride	mg/l	grab	Quarterly
Boron	mg/l	grab	Quarterly
Total Dissolved Solids	mg/l	grab	Quarterly
PH	pH units	grab	Quarterly
Temperature	°F	grab	Quarterly

µg/L: micrograms per liter; mg/L: milligrams per liter

In addition, for 1 year, monitoring wells RMW-12, RMW-5, and RMW-16 (Figure 1), must be sampled and analyzed quarterly for the following:

<u>CONSTITUENT</u>	<u>Acceptable Test Method</u>	<u>TYPE OF SAMPLE</u>	<u>REPORTING LIMIT</u>
Perchlorate	USEPA Method 314.0	grab	4 µg/L
N-Nitrosodimethylamine (NDMA)	USEPA Method 1625	grab	0.002 µg/L
1,4-Dioxane	USEPA Method 8270	grab	2 µg/L
1,2,3-Trichloropropane	USEPA Method 524.2	grab	0.005 µg/L
Total/Hexavalent Chromium	USEPA Method 200.8/218.6	grab	1 µg/L/0.3 µg/L
Polybrominated Diphenyl Ether	USEPA Method 8270	grab	2 µg/L

µg/L: micrograms per liter

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.
- d. Tabulated analytical results

III. 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.

IV. 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.

V. 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 _____

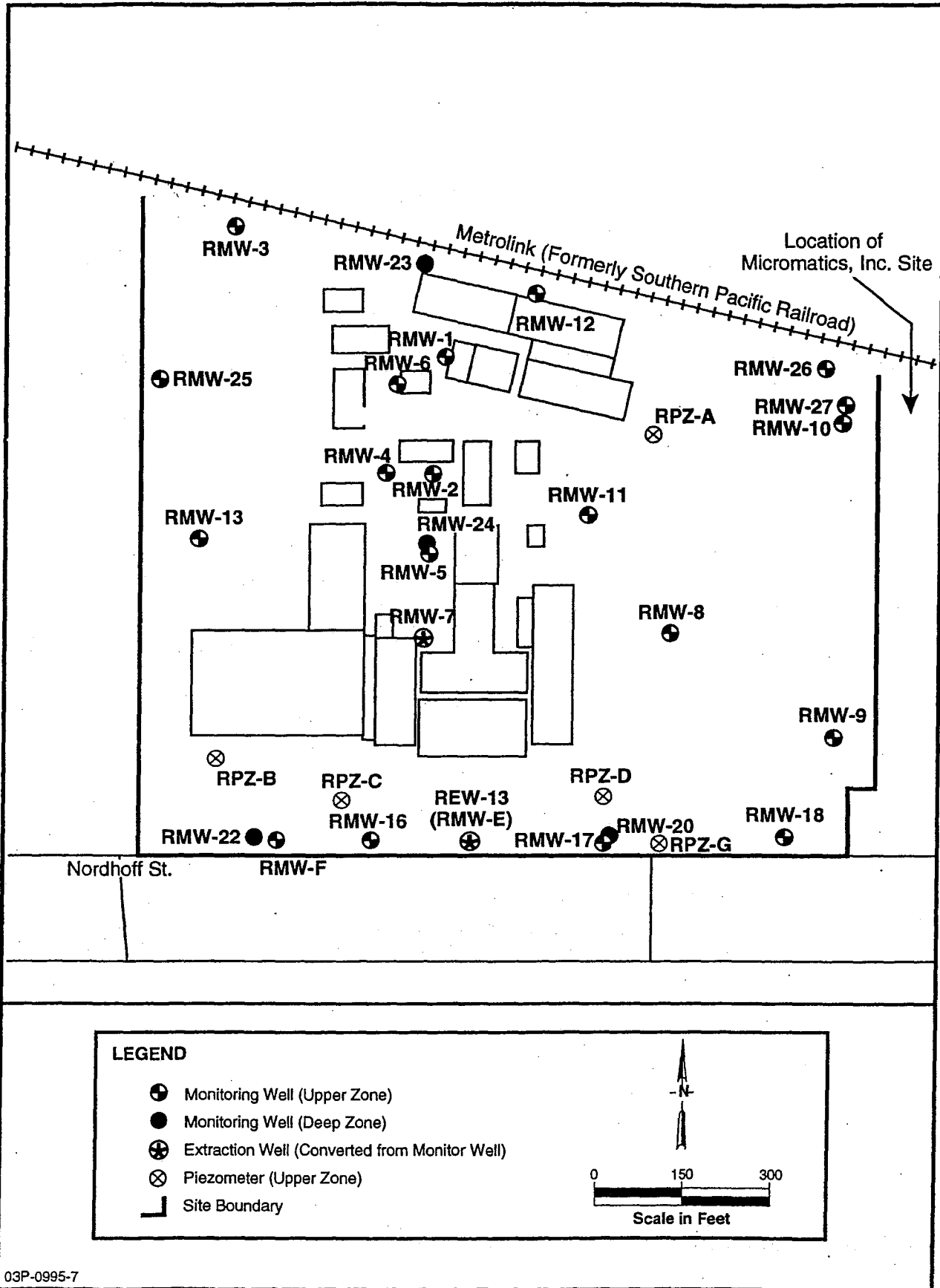
_____(Signature)

_____(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: September 19, 2003



03P-0995-7

**FIGURE 1 LOCATION OF ON-SITE GROUNDWATER MONITORING WELLS
3M PHARMACEUTICALS, NORTHRIDGE**