

State Of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION

MONITORING AND REPORTING PROGRAM NO. CI-5689
FOR
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
AND
PEPPERDINE UNIVERSITY
(Malibu Mesa Wastewater Reclamation Facility)
Order No. 00-167
File No.70-060

I. Monitoring and Reporting Requirements

- A. The County of Los Angeles Department of Public Works (hereinafter Recycler) and the Pepperdine University (hereinafter User) shall implement this monitoring program on the effective date of this Order. The first monitoring report under this program, for October - December 2000, shall be received at the Regional Board by February 1, 2000. 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	May 1
April – June	August 1
July – September	November 1
October – December	February 1
Annual Summary Report	March 1 of each year

- B. The hydrogeologic monitoring reports shall be received at the Regional Board according to the following schedule:

<u>Monitoring Period</u>	<u>Report Due</u>
October - March Annual Report	July 1 March 1 of each year

- C. All chemical, bacteriological, and toxicity analyses shall be conducted at a laboratory certified for such analyses by the California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) or approved by the Executive Officer. A copy of the laboratory certification shall be provided with the annual summary report.
- D. If the Recycler performs analyses on any effluent more frequently than required by this Order using approved analytical methods, the results of those analyses shall be included in the report. Those results shall also be reflected in the calculation of the average values used in demonstrating compliance with average effluent limitations.

- E. Water and wastewater samples must be analyzed within allowable holding time limits as specified in 40 CFR Part 136.3. All Quality Assurance/Quality Control (QA/QC) items must be run on the same dates when samples are actually analyzed. The Recycler or User shall make available for inspection and/or submit the QA/QC documentation upon request by Regional Board staff. Proper chain-of-custody procedures shall be followed and a copy of the documentation shall be submitted in the report.
- F. The monitoring report shall specify the USEPA analytical method used, the Method Detection Limit (MDL) and the Minimum Level (ML) for each pollutant. For the purpose of reporting compliance with numerical limitations, performance goals, and receiving water limitations, analytical data shall be reported by one of the following methods, as appropriate:
1. An actual numerical value for sample results greater than or equal to the ML;
 2. "Detected, but Not Quantified (DNQ)" for sample results greater than or equal to the laboratory's MDL but less than the ML; or,
 3. "Not Detected (ND)" for sample results less than the laboratory's MDL with the MDL indicated for the analytical method used.

The minimum levels are those published by the State Water Resources Control Board in the *Policy for the Implementation of Toxics Standards for Inland Surface Waters, Enclosed Bays, and Estuaries of California*, March 2, 2000.

- G. The MLs employed for effluent analyses shall be lower than the permit limits established for a given parameter, unless the Recycler can demonstrate that a particular ML is not attainable and obtains approval for a higher ML from the Executive Officer. At least once each year, the Recycler shall submit a list of the analytical methods employed for each test and associated laboratory QA/QC procedures.
- H. The Recycler shall immediately notify Regional Board staff of any confirmed coliform counts that could cause a violation of the coliform requirements. This information shall be confirmed in a written report submitted within five working days after verbal notification. For any actual coliform limit violations that occurred, the report shall also include the reasons for the high coliform results, the steps taken to correct the problem (including dates thereof) and the steps being taken to prevent a recurrence.

II. Submittal of Monitoring and Annual Reports

- A. All monitoring and annual summary reports must be addressed to the Regional Board, Attention: Information Technology Unit. Reference the reports to Compliance File No. CI-5689 to facilitate routing to the appropriate staff and file.
- B. The Recycler shall submit an annual summary report containing a discussion of the previous year's recycled water monitoring data, as well as graphical and tabular summaries of the data. The data shall be submitted to the Regional Board on a hard copy and on a 3 1/2" computer diskette. The submitted data must be IBM compatible, preferably using Microsoft Excel spreadsheet software.

The Recycler shall discuss the compliance record and, in case of violation, the corrective actions either taken or planned to bring the discharge into full compliance with waste discharge requirements. The annual report must be received at the Regional Board by March 1 of each year following the calendar year of data collection.

C. Electronic Submittal of Monitoring Data

The Regional Board may require the Recycler to submit the monitoring and annual summary reports electronically at some time in the future.

III. Recycled Water Monitoring

A sampling station shall be established where representative samples of treated wastewater can be obtained, prior to use of recycled water for landscape irrigation. Effluent samples may be obtained at a single station, provided that station is representative of the quality at all discharge points. The Recycler shall submit a Sampling and Analysis Plan identifying the sampling stations, and sampling and analysis protocol by December 30, 2000, for the Executive Officer's approval. The following shall constitute the recycled water monitoring program:

<u>Pollutant</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Total waste flow	gal/day	recorder	continuous ¹
Turbidity	NTU	recorder	continuous ²

¹ For those constituents that are monitored continuously, the Recycler shall report the daily minimum, maximum, and average values.

² The daily average turbidity is based on a minimum of four-hour readings over a 24-hour period, and the calculation that the turbidity not exceed 5 NTU more than 5% of the time is based on a minimum of 1.2-hour readings over a 24-hour period.

<u>Pollutant</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
pH	pH units	grab	daily
Total coliform ³	MPN/100mL	grab	daily
BOD ₅ ,20°C	mg/L	24-hour composite	weekly
Suspended solids	mg/L	24-hour composite	weekly
Oil and grease	mg/L	grab	quarterly
Total organic carbon	mg/L	grab	quarterly
Total dissolved solids	mg/L	grab	quarterly
Chloride	mg/L	grab	quarterly
Sulfate	mg/L	grab	quarterly
Boron	mg/L	grab	quarterly
Nitrate nitrogen ⁴	mg/L	grab	quarterly
Nitrite nitrogen ⁴	mg/L	grab	quarterly
Ammonia nitrogen ⁴	mg/L	grab	quarterly
Organic nitrogen ⁴	mg/L	grab	quarterly
Total nitrogen ⁴	mg/L	grab	quarterly
Radioactivity	pCi/L	grab	annually
Priority pollutants (see page T-7)	µg/L	grab	annually

IV. Irrigation and Groundwater Water Monitoring

- A. The User shall record the amount of recycled water used for irrigation each week.
- B. The User is required to continue the hydrogeologic monitoring program, to ensure that irrigation does not affect geologic stability due to infiltration.

V. Waste Hauling Report

In the event that wastes (such as sludge) 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.

³ Coliform samples shall be obtained at some point in the treatment process at a time when wastewater flow and characteristics are most demanding on the treatment facilities and disinfection processes. The sampling point shall be located after the ultraviolet disinfection process. The location of the sampling point and any proposed changes thereto must be approved by the Executive Officer, and the proposed changes shall not be made until such approval has been granted.

⁴ The nitrogen species shall be monitored in the final effluent.

VI. General Provisions for Reporting

- A. For every item where the requirements are not met, the Recycler shall submit a statement of the actions undertaken, or proposed, which will bring the discharge into full compliance with requirements at the earliest time, and submit a timetable for correction.
- B. In reporting the monitoring data, the Recycler shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with water recycling requirements. The User, where applicable, shall include results of groundwater observations.
- C. Each quarterly report shall include a statement that all recycled water was used only as specified in the requirements during the quarter. If no water was delivered for recycling during the quarter, the report shall so state.
- D. Each quarterly monitoring report shall include the estimated average population served during the quarter and the approximate acreage used for irrigation.

VII. Operation and Maintenance Report

- A. The Recycler and User shall file a technical report with this Regional Board, not later than 30 days after receipt of these Waste Discharge Requirements and Water Recycling Requirements, relative to the operation and maintenance program for the discharge and recycling facilities. 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 facility.
 - 2. Type of maintenance (preventive or corrective).
 - 3. Frequency of maintenance, if preventive.

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- VIII. 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 Recycler or User, will be treated as confidential.



Dennis A. Dickerson
Executive Officer

DATE: November 9, 2000

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