

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 81-46

NPDES NO. CA0038431

WASTE DISCHARGE REQUIREMENTS FOR:

SANTA CLARA VALLEY WATER DISTRICT
AQUIFER RECLAMATION EXTRACTION WELLS
PALO ALTO, SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, finds that:

1. Santa Clara Valley Water District, hereinafter called the discharger, submitted a report of waste discharge (NPDES Forms 1 and 2C) dated May 21, 1981, applying for reissuance of its waste discharge requirements and permit to discharge wastes under the National Pollutant Discharge Elimination System (NPDES).
2. The Santa Clara Valley Water District and the City of Palo Alto constructed a hydraulic barrier to salt water intrusion of the upper aquifer in the Palo Alto Bayfront area. The hydraulic barrier consists of five injection and six extraction wells as shown on Attachment A. Tertiary treated effluent from the City of Palo Alto Wastewater Treatment Plant will be given chemical treatment, filtration, carbon treatment and chlorination prior to injection. Order No. 73-71 adopted by this Board on November 27, 1971, prescribes waste discharge requirements for up to two million gallons per day of reclaimed water intended for injection.
3. The injection of reclaimed water is not intended for supplementing any aquifer used for domestic supply. The extraction well system is intended to prevent any injected water from mixing with aquifers suitable for domestic use. Approximately 266,000 gallons per day will be pumped from the extraction wells. This order prescribes discharge requirements for the disposal of the extraction well wastewater into Mountain View Slough.
4. The Board, in April 1975, adopted a Water Quality Control Plan for San Francisco Bay Basin. The Plan contains water quality objectives for Mountain View Slough and San Francisco Bay.
5. The beneficial uses of the affected parts of Mountain View Slough and San Francisco Bay are:
 - a. Recreation
 - b. Fish migration and habitat

- c. Habitat and resting for waterfowl and migratory birds
 - d. Industrial water supply
 - e. Esthetic enjoyment
 - f. Navigation
 - g. Commercial and sport fishing
6. Effluent Limitation and toxic effluent standards established pursuant to Sections 208(b), 301, 304, and 307 of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.
 7. The reissuance of waste discharge requirements for this discharge is exempt from the provisions of Chapter 3 (commencing with Section 21000) of Division 13 of Public Resources Code (CEQA) in accordance with Water Code Section 13389.
 8. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that Santa Clara Valley Water District, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, and the provisions of the Federal Water Pollution Control Act and regulations and guidelines adopted thereunder, shall comply with the following:

A. Receiving Water Limitations

1. The discharge of waste shall not cause the following conditions to exist in waters of the State at any place:
 - a. Visible, floating, suspended or deposited oil or other products of petroleum origin;
 - b. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - c. Bottom deposits or aquatic growths;
 - d. Increases of temperature, turbidity, or apparent color beyond present natural background levels;
 - e. Variation from natural ambient pH by more than 0.5 pH units;
 - f. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentration.

2. The discharge shall not cause a violation of any applicable water quality standards for receiving waters adopted by the Regional Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

B. Provisions

1. Neither the treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code.
2. The discharger shall comply with all Sections of this Order immediately upon adoption.
3. This Order includes the attached "Standard Provisions" dated April 1977 except Provisions and Requirements A.12, A.16, B.3 and B.5.
4. This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall take effect at the end of ten days from date of hearing provided the Regional Administrator of the U. S. Environmental Protection Agency has no objections.
5. This Order expires on September 16, 1986. The discharger must file a Report of Waste Discharge in accordance with Title 23, Chapter 3, Subchapter 9, of the California Administrative Code not later than 180 days in advance of such expiration date as application for issuance of new waste discharge requirements.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on September 16, 1981.

FRED H. DIERKER
Executive Officer

Attachments:

Standard Provisions & Reporting
Requirements dated April 1977
Self-Monitoring Program

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM
FOR

SANTA CLARA VALLEY WATER DISTRICT

AQUIFER RECLAMATION EXTRACTION WELLS

PALO ALTO, SANTA CLARA COUNTY

NPDES NO. CA 0038431

ORDER NO. 81-46

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

REISSUANCE OF
SELF-MONITORING PROGRAM

FOR

SANTA CLARA VALLEY WATER DISTRICT
AQUIFER RECLAMATION WELLS
PALO ALTO, SANTA CLARA COUNTY

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as a self-monitoring program, are:

1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board,
2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge,
3. To develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and,
4. To prepare water and wastewater quality inventories.

B. MONITORING PROGRAM

I. Description of Sampling Stations

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| G-1 | At any point in the effluent waste stream that contains the combined wastewater from all the extraction wells. |
| C-1 | At a point in Mountain View Slough approximately 100 feet down current from the point of discharge. |
| C-R | At a point in Mountain View Slough, 200 feet up-current from the point of discharge and not affected by the discharge. |

II. Schedule of Sampling and Analysis

Sampling Stations	All G Stations	All C Stations
Type of Sample	Grab or Continuous as noted	Grab
Flow Rate (mgd)	Continuous	N/A
pH (Units)	Continuous	Q
Temperature (C)	Continuous	
Dissolved Oxygen (mg/l)	W (Grab)	Q
Conductivity (umhos/cm)	M (Grab)	Q

M = one sample per month

W = one sample per week

Q = one sample every three months

Receiving water samples shall be collected at or near the lowest tidal level where there is naturally occurring water in Mountain View Slough at the point of discharge. The following quarter samples shall be collected at high tide and thereafter low and high tide sampling times shall be alternated each quarter.

When receiving water samples are taken, effluent samples shall be taken on the same day and hour. When receiving water samples are taken the following condition shall be noted and reported:

1. Time of sampling.
2. Times and elevations of high and low tides on the day of sampling.

Receiving water to be sampled only during periods of discharge to Mountain View Slough.

C. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violations of Requirements

In the event the discharger is unable to comply with the conditions of the waste discharge requirements and prohibitions due to:

- (a) Maintenance work, power failures, or breakdown of waste treatment equipment, or
- (b) Accidents caused by human error or negligence, or
- (c) Other causes, such as acts of nature,

the discharger shall notify the Regional Board Office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps were taken to prevent the problem from recurring.

2. Self-Monitoring Reports

Reports shall be submitted quarterly (January 15, April 15, July 15 and October 15). The reports shall be in letter form, and shall specifically cover each point in the Monitoring Program (Part B). Any violations shall be clearly identified, and actions taken or planned for correcting violations shall be included. Monitoring reports shall be signed:

- (a) In the case of corporations, by a principal executive officer at least at the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates, or
- (b) In the case of a partnership, by a general partner, or
- (c) In the case of a sole proprietorship, by the proprietor.

The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 81-46.
- 2. Has been reissued by the Executive Officer on the date shown below and becomes effective immediately.
- 3. May be reviewed by the Executive Officer at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

Fred H. Dierker
Executive Officer

Date Reissued