



California Regional Water Quality Control Board

San Francisco Bay Region



Terry Tamminen
Secretary for
Environmental
Protection

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Arnold Schwarzenegger
Governor

By Certified Mail

No. 70993220000146709153

JUN 23 2004

File No. 2159.5002 (KK)

Roy McNamee
Park Maintenance Chief
California State Department of Parks and Recreation
North Bay District
Russian River Sector
P.O. Box 123
Duncans Mills CA, 95430

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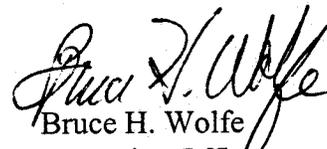
Subject: Adopted Order No. R2-2004-0043, Waste Discharge Requirements for Angel Island State Park Leach Field

Dear Mr. McNamee:

The Water Board adopted Order No. R2-2004-0043 at its June 16, 2004 meeting, containing the Waste Discharge Requirements (WDR) for the new leach field at Angel Island State Park. We are enclosing a copy of the adopted WDR and related documents. The WDR is effective on July 1, 2004, and your staff may begin directing effluent from the wastewater treatment plant into the leach field on that date. As the WDR states, we intend to bring rescission of the current NPDES permit before the Water Board at its September meeting, unless you request a delay. A request for delay should include the reasons for the request and a proposed date for rescission.

If you have questions, please contact Ken Katen of my staff at 510-622-2485.

Sincerely,


Bruce H. Wolfe
Executive Officer

cc: Armando Alegria, REHS
Marin County Environmental Health Services

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

ORDER NO. R2-2004-0043

WASTE DISCHARGE REQUIREMENTS FOR:

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION,

ANGEL ISLAND STATE PARK,

MARIN COUNTY

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

1. The California Department of Parks and Recreation, (the Discharger), submitted a Report of Waste Discharge dated April 5, 2004 for the discharge of domestic wastewater (the subject discharge) from Angel Island State Park (the Park).
2. The discharge is currently governed by Waste Discharge Requirements contained in Order No. 93-022, NPDES Permit No. CA 0037401 (the existing NPDES permit), which were adopted by the Board on March 17, 1993.
3. The Discharger's April 5, 2004 Report of Waste Discharge describes the proposed replacement of the Park's existing discharge of secondary-treated effluent into Raccoon Strait with disposal in a leach field, and requests rescission of the NPDES permit and issuance of new Waste Discharge Requirements for the land disposal of secondary-treated effluent.
4. The Park is located on Angel Island in Central San Francisco Bay. The Park contains various occupied and unoccupied buildings, residences, and restroom facilities for park visitors. Average visitation to the Park is 820 visitors per day in summer and 144 visitors per day in winter. There are approximately 32 full-time residents on the Park. See Attachment 1 for a location map.
5. The Park's existing wastewater treatment facilities consist of a collection system, nine (9) septic tanks, seven (7) lift stations, a 13,000 foot long, 2 inch diameter force main, 4,600 feet of clay gravity-flow sewer lines, and a secondary wastewater treatment plant (WWTP) to treat the pretreated effluent from the septic tanks. The WWTP consists of a flow equalization tank, a rotating biological contactor, a secondary clarifier, sludge removal facilities, and chlorination/dechlorination facilities. Currently the WWTP discharges fully-secondary-treated effluent into Raccoon Strait. The daily sewage flows vary greatly due to variable attendance at the Park, though this flow variation is moderated somewhat by the WWTP. Flows typically range from 9,000 to 18,000 gallons per day (gpd). See Attachment 2 for a diagram of the WWTP.
6. In 2003, the Discharger constructed a subsurface soil disposal system (leach field) to dispose of all the effluent from the WWTP. The treated wastewater disposal pipeline and leach field are depicted

on Attachment 1. The leach field is located at Latitude 37 degrees 51.343 minutes north and Longitude 122 degrees 26.090 minutes west, and is separated from Central San Francisco Bay by more than 500 feet laterally and more than 100 feet vertically.

BASIN PLAN AND BENEFICIAL USES

7. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the San Francisco Bay Region on June 21, 1995. The revised Basin Plan was approved by the State Water Resources Control Board and the Office of Administrative Law on July 20 and November 13, 1995, respectively. The Basin Plan identifies beneficial uses and water quality objectives for waters of the state in the Region, including surface waters and groundwaters. The Basin Plan also identifies discharge prohibitions intended to protect identified beneficial uses. This Order implements the plans, policies and provisions of the Basin Plan.
8. The beneficial uses of Central San Francisco Bay are:
 - a. Ocean commercial and sport fishing
 - b. Estuarine Habitat
 - c. Industrial Service Supply
 - d. Fish Migration
 - e. Navigation
 - f. Industrial Process Supply
 - g. Preservation of Rare and Endangered Species
 - h. Water Contact Recreation
 - i. Noncontact Water Recreation
 - j. Shellfish Harvesting
 - k. Fish Spawning
 - l. Wildlife Habitat

REGULATORY ISSUES AND APPLICATIONS

9. The existing NPDES Permit will remain in effect until September 2004 to regulate any discharges from the WWTP to waters of the State during leach field startup. Rescission of the existing NPDES Permit may be deferred past September 2004 if the Discharger requests, in writing, a deferral due to delays caused by equipment problems or other technical difficulties arising during leach field startup.
10. This order contains technology-based limitations for Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS), Settleable Solids, Oil and Grease, and pH. These technology-based effluent limitations are established in accordance with the Basin Plan and Title 40 of the Code of Federal Regulation Part 125 (40 CFR Part 125) to ensure that full secondary treatment is achieved by the WWTP.
11. On September 17, 2002 the Discharger, as the California Environmental Quality Act (CEQA) Lead Agency, determined construction of the leach field to be Categorical Exempt under Section 15302 Class (2) of the CEQA Guidelines.

12. The Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with the opportunity for a public hearing and opportunity to submit their written views and recommendations.
13. The Board, in a properly noticed public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the California Department of Parks and Recreation (Discharger), in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Discharge Prohibitions

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharge of waste other than domestic waste into the waste collection, treatment and disposal system is prohibited.
3. Wastewater discharged to the leach field shall remain below ground at all times.
4. Wastewater discharged to the leach field shall not be allowed to leach, seep, or flow from the leach field into surface waters of the State.
5. There shall be no bypass or overflow of waste to waters of the State from the collection, treatment, or disposal system except as provided for in Provision 9 of this Order.
6. Discharge of wastewater to any land other than the leach field is prohibited unless authorized in writing by the Executive Officer in accordance with provisions of this order.

B. Effluent Limitations

Effluent from the WWTP discharged to the leach field shall meet the following technology-based limits at all times:

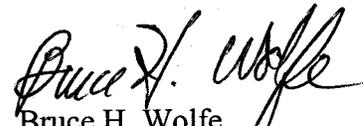
<u>Constituent</u>	<u>Units</u>	<u>Monthly Average</u>	<u>Weekly Average</u>
BOD	mg/L	30	45
Suspended Solids	mg/L	30	45
Oil & Grease	mg/L	10	
Settleable Solids	mg/l-hr	0.1	
pH		Not less than 6.5 Not greater than 8.5	

C. Provisions

1. This Order becomes effective on July 1, 2004, and the Discharger shall comply with all sections of it by that date, unless specified otherwise.
2. Sludge that is disposed of in a municipal solid waste landfill must meet the requirements of 40 CFR Part 258. The Discharger's annual self-monitoring report shall include the amount of sludge disposed of, and the landfill(s) to which it was sent.
3. All sludge generated by the Discharger not disposed of in a municipal solid waste landfill shall be disposed of in accordance with the requirements of 40 CFR Part 503. All the requirements of 40 CFR Part 503 are enforceable by the U.S. EPA whether they are stated in this or any other Board order governing the subject discharge.
4. Sludge treatment, storage, disposal, or reuse shall not create a nuisance or result in groundwater contamination.
5. The treatment and temporary storage of sewage sludge at the Discharger's wastewater treatment facility shall not cause waste material to be in a position where it may be carried from the sludge treatment and storage site and deposited in the waters of the State.
6. This Order does not authorize permanent on-site storage or disposal of sewage sludge at the Discharger's wastewater treatment facility. A report of Waste Discharge shall be filed and the site brought into compliance with all applicable regulations prior to commencement of any such permanent on-site sludge storage or disposal by the Discharger.
7. The Discharger shall employ a treatment plant operator with at least a Grade II certification to supervise operation of the collection, treatment, and disposal system, or demonstrate to the Executive Officer's satisfaction that an equivalent level of supervision is being maintained.
8. The Discharger shall maintain a copy of this Order onsite so that it will be available at all times to personnel operating waste treatment and disposal facilities.
9. The provisions of Order No. 93-022 shall remain in effect until explicitly rescinded by the Board, and shall govern any discharge from the WWTP to waters of the State. The rescission of Order No. 93-022 will be considered by the Board within 90 days after the effective date of this Order, unless the Discharger has notified the Executive Officer, in writing, that more time is needed due to unforeseen technical difficulties in starting leach field operation.
10. The Discharger shall comply with all items of the attached self-monitoring program (Attachment No. 3), and the August 1993 *Self Monitoring Program, Part A Non-NPDES Facilities* (Attachment No. 4).
11. The Discharger shall notify the Executive Officer, in writing, at least 120 days before making any material change in the character, location, or volume of the wastewater treatment or disposal practices described or regulated by this Order, except in emergencies, in which case the Regional Board shall be notified as soon as possible.

12. The Discharger shall, in accordance with California Water Code Section 13267(c), permit the Regional Board or its authorized representative:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
 - b. Access to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of monitoring equipment or records, and
 - d. Sampling of any discharge.
13. In the event of any change in control or ownership of the land or the waste discharge facilities presently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by a letter, a copy of which shall be forwarded to the Regional Board.
14. This Regional Board will review this Order periodically and may revise the requirements as necessary.

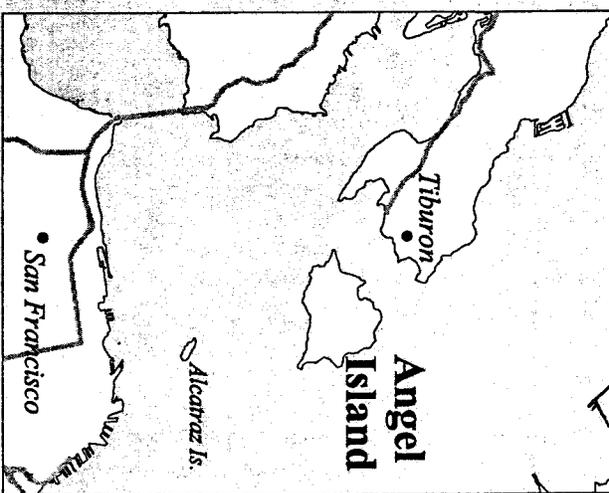
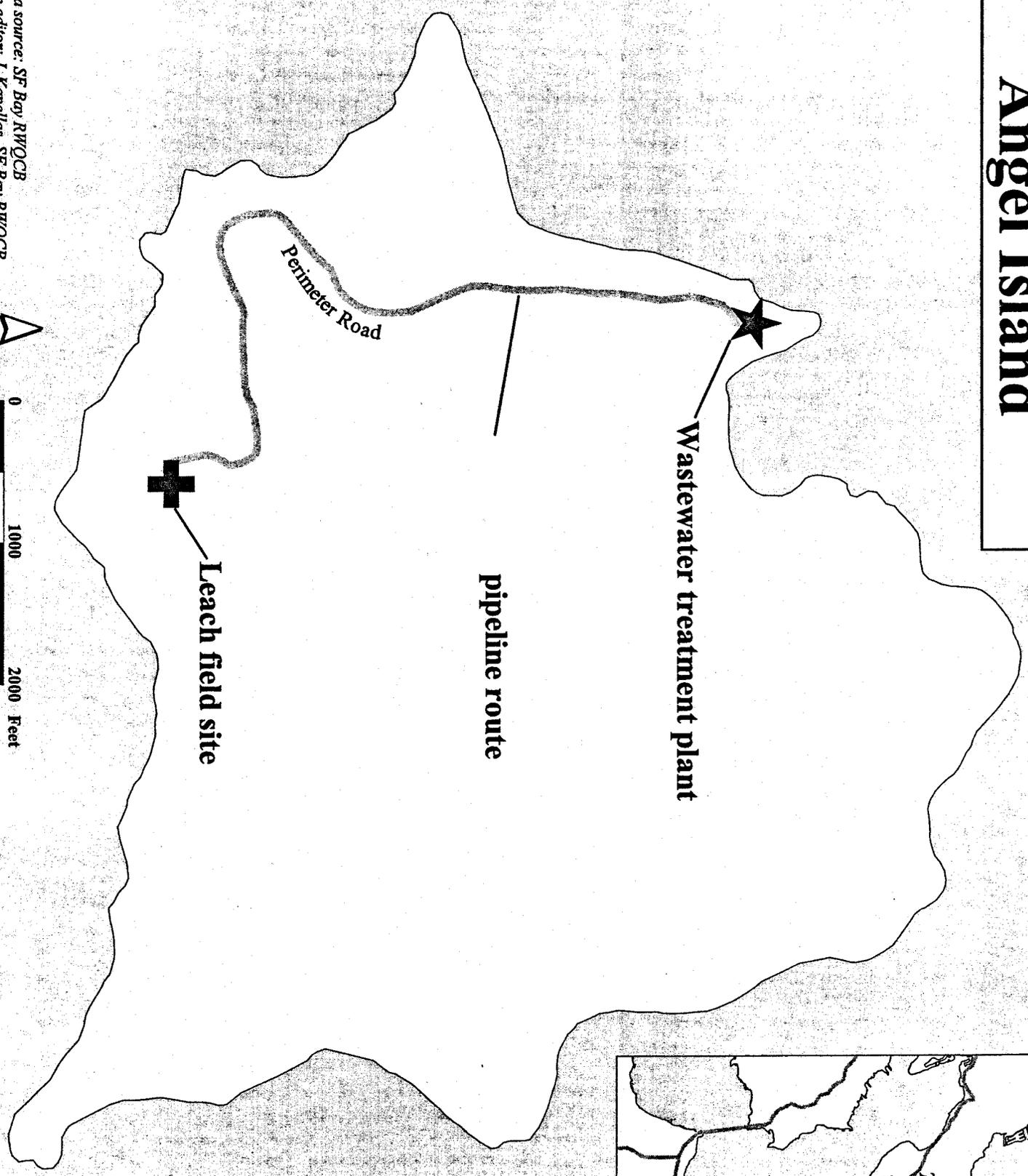
I, Bruce H. Wolfe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of the Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 16, 2004.


Bruce H. Wolfe
Executive Officer

Attachments:

1. Location map
2. Process diagram for wastewater treatment plant.
3. Self-Monitoring Program, Part B
4. Self-Monitoring Program, Part A, Non-NPDES Facilities, dated August 1993

Angel Island

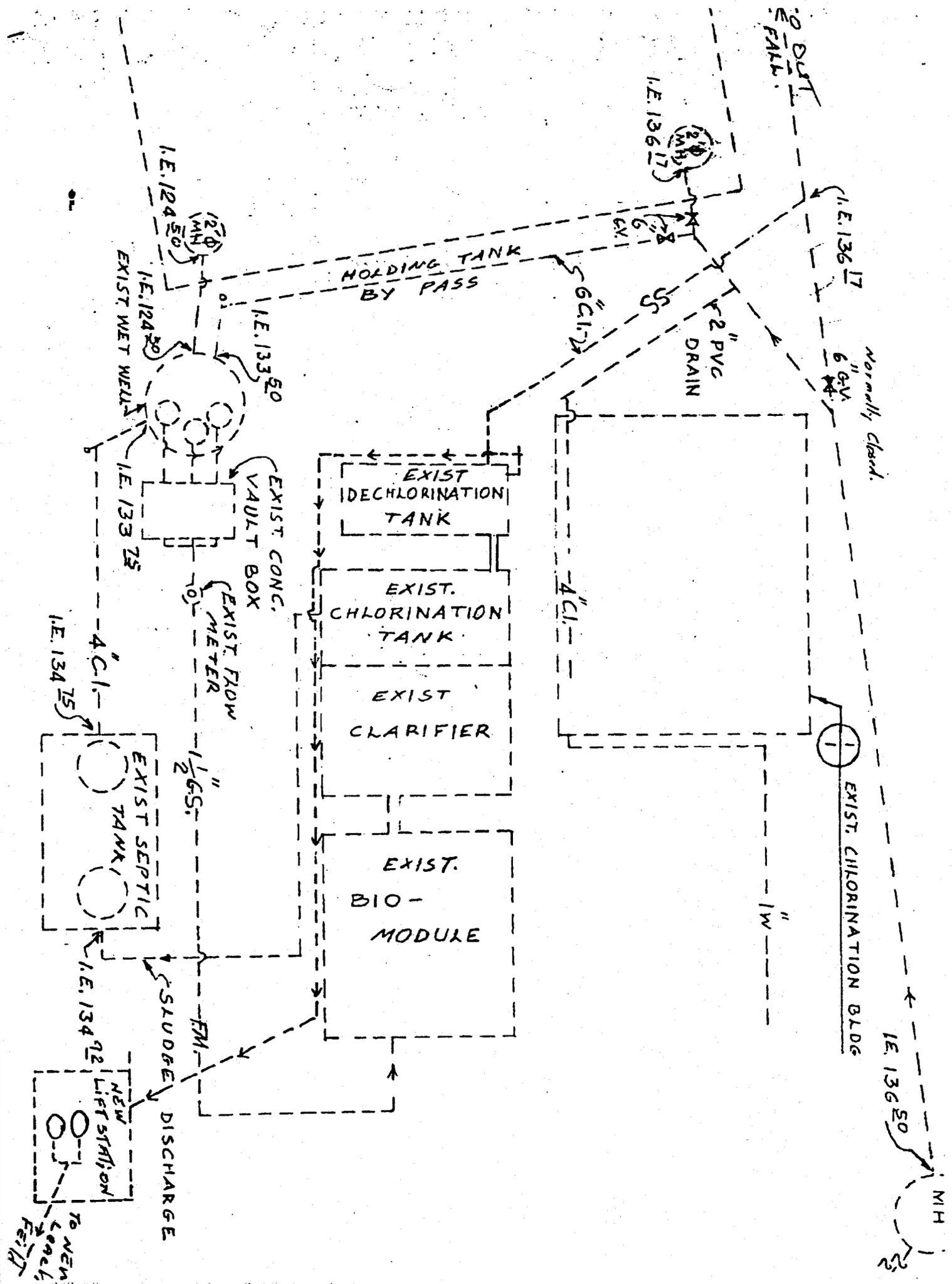


Data source: SF Bay RWQCB
Map editor: J. Kapelas, SF Bay RWQCB
Map date: April 28, 2004



Attachment 2.

Process Diagram for Wastewater Treatment Plant



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION

ANGEL ISLAND STATE PARK

MARIN COUNTY

ORDER NO. R2-2004-0043

CONSISTS OF:

PART A, DATED AUGUST 1993

AND

PART B

I. 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.

If Part B of this Self Monitoring Program contains any provisions or requirements that appear to modify or conflict with provisions or requirements in Part A, those contained in Part B shall take precedence.

The principal purposes of a monitoring program by the waste discharger, also referred to as 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 Discharger in the prevention and abatement of pollution arising from waste discharge.

II. DESCRIPTION OF SAMPLING

NOTE: A map showing the locations of the sampling stations described below shall accompany each monthly report, and the annual report for each calendar year.

1. Influent

Influent to the WWTP shall be sampled as described below.

<u>Parameter</u>	<u>Sample Collection</u>
BOD	Monthly
Total Suspended Solids	Monthly

2. Effluent

Effluent from the WWTP shall be sampled for the following parameters and frequencies prior to disposal:

<u>Parameter</u>	<u>Sample Collection</u>
Flow ¹	Daily (continuous)
Settleable Solids	Weekly
Total Suspended Solids	Weekly
Oil and Grease	Weekly
5-day BOD	Weekly
Total Nitrogen	Monthly
pH	Weekly
Dissolved Oxygen	Monthly

3. Leachfield Monitoring

The Discharger shall measure the water depth, if any, in the leach field monitoring wells:

- a. During leach field startup:
 - Daily during the first week of operation
 - twice a week for the next 3 weeks
 - weekly thereafter until regular operation commences.
- b. After leach field startup:
 - weekly during the wet weather season (October 1 – April 30); and
 - monthly during the dry weather season (May 1 – September 30).

4. Observations

- A. The Discharger shall make weekly observations of the WWTP and its perimeter, recording plant operation and any odors (strength, sources, and area effected).
- B. The Discharger shall also make weekly observations of the disposal area. At the leachfield, the Discharger shall record any evidence of surfacing wastewater and any odors (strength, area affected).

¹ Both daily flow and monthly average flow (in gallons per day) shall be reported.

III. REPORTS TO BE FILED WITH THE REGIONAL BOARD**1. Violations of Requirements**

A report shall be made of any accidental spill of waste. Accidental spills shall be reported to this Regional Board by telephone immediately after detected at (510) 622-2300. A subsequent written report shall be filed with the Regional Board within five (5) days and shall contain information relative to:

- A. Nature of waste or pollutant;
- B. Quantity involved;
- C. Cause of spill;
- D. Estimated size of affected area;
- E. Nature of effects (i.e., fish kill, discoloration of receiving water, etc.); and,
- F. Corrective measures that have been taken, or planned, and a schedule of these activities.

2. Reports of Plant Bypass, Treatment Unit Bypass, and Permit Violation:

The required contents of the annual report are described in Section F.2 of Part A.

3. Self-Monitoring Reports

The required contents of the self-monitoring reports are described in Section F.4 of Part A, with the following changes:

- A. Self-monitoring reports shall be filed regularly for each calendar quarter and shall be submitted by thirty days after the close of the quarter.
- B. Original reports shall be submitted to:

Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

4. Annual Report

An annual report for each calendar year shall be submitted to the Regional Board by January 30th of the following year. The required contents of the annual report are described in Section G.5 of Part A.

I, Bruce H. Wolfe, 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 73-16 in order to obtain data and document compliance with Waste Discharge Requirements established in Regional Board Order No. R2-2004-0043.

2. Is effective on July 1, 2004.
3. May be reviewed 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.



Bruce H. Wolfe
Executive Officer

Date June 16, 2004

Attachment 4.

Self Monitoring Program Part A

Non-NPDES Facilities,

Dated August 1993

August 1993

**SELF-MONITORING PROGRAM
PART A**

Non-NPDES Facilities

A. PURPOSE

The principal purposes of a monitoring program by a waste discharger, also referred to as 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. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the 40 CFR 5136 or other methods approved and specified by the Executive Officer of this Regional Board.

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS) or a laboratory waived by the Executive Officer from obtaining a certification for these analyses by the DOHS. The director of the laboratory whose name appears on the certification or his/her laboratory supervisor who is directly responsible for analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his or her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. SPECIFICATIONS FOR SAMPLING AND ANALYSES

The discharger is required to perform sampling and analyses according to the schedule in Part B in accordance with the following conditions:

1. Effluent

- a. At least one sampling day shall reflect one day of weekend discharge, one day of peak loading and during major unit operation shutdown or startup. The Executive Officer may approve an alternative sampling plan if it is demonstrated to the EO's satisfaction that expected operating conditions for the facility warrant a deviation from the standard sampling plan.
- b. Grab samples of effluent shall be collected during periods of maximum peak flows and shall coincide with effluent composite sample days.
- c. Chlorine residual analyzers shall be calibrated against grab samples as frequently as necessary maintain accurate control and reliable operation. If an effluent violation is detected, grab samples shall be collected at least every 30 minutes until compliance is achieved.
- d. When any type of overflow occurs, samples shall be collected on a daily basis for all constituents at all affected discharge points which have effluent limits for the duration of the overflow.

D. STANDARD OBSERVATIONS

1. Land Retention or Disposal Area

This applies both to liquid and solid wastes confined or unconfined.

- a. For each impoundment determine amount of the freeboard at lowest point of dikes confining liquid wastes.
- b. Evidence of leaching liquid from area of confinement and estimated size of affected area. Show affected area on a sketch and volume of flow (gpm, etc.)
- c. Odor: presence or absence, characterization, source, and distance of travel.
- d. Estimated number of waterfowl and other water-associated birds in the disposal area and vicinity.

2. Periphery of Waste Treatment and/or Disposal Facilities

- a. Odor: presence or absence, characterization, source, and distance of travel.
- b. Weather condition: wind direction and estimated velocity

E. RECORDS TO BE MAINTAINED

1. Written reports, strip charts, calibration and maintenance records, and other records shall be maintained by the discharger and accessible (at the waste treatment plant), and retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board. Such records shall show the following for each sample:
 - a. Identity of sampling and observation stations by number.
 - b. Date and time of sampling and/or observations.
 - c. Method of sampling
 - d. Date and time that analyses are started and completed, and name of personnel performing the analyses.
 - e. Calculations of results.
 - f. Results of analyses and/or observations.
2. A tabulation shall be maintained showing the following flow data for influent and effluent stations and disposal areas:
 - a. Total waste flow or volume, for each day.
 - b. Maximum and minimum daily flows for each month.
3. A tabulation reflecting bypassing and accidental waste spills shall be maintained showing information items listed in Sections E-1 and E-2 for each occurrence.

4. A chronological log for each month shall be maintained of the effluent disinfection and bacterial analyses, showing the following:
 - a. Date and time each sample is collected and waste flow rate at time of collection.
 - b. Chlorine residual, contact time, and dosage (in kilograms per day and parts per million).
 - c. Coliform count for each sample
 - d. Moving median coliform of the number of samples specified by waste discharge requirements.

F. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

A report shall be made of any spill of oil or other hazardous material. Spills shall be reported to this Regional Board, at (510) 286-1255 by telephone immediately after occurrence. A written report shall be filed with the Regional Board within five (5) working days and shall contain information relative to:

- a. nature of waste or pollutant,
- b. quantity involved,
- c. duration of incident,
- d. cause of spill,
- e. SPCC Spill Prevention and Containment Plan in effect, if any,
- f. estimated size of affected area,
- g. nature of effects (i.e., fishkill, discoloration of receiving water, etc.),
- h. corrective measures that have been taken or planned, and a schedule of these activities, and
- i. persons notified.

2. Reports of Plant Bypass, Treatment Unit Bypass and Permit Violation

In the event the discharger violates or threatens to violate the conditions of the waste discharge requirements and prohibitions or intends to experience an overflow or treatment failure 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 7 working days of the telephone notification. The written report shall include time and date, duration and estimated volume of waste bypassed, method used in estimating volume and person notified of the incident. The report shall

include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, the waste discharger shall promptly accelerate his monitoring program to analyze the discharge at least once every day. Such daily analyses shall continue until such time as the effluent limits have been attained, until bypassing stops or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

3. The discharger shall file a written technical report to be received at least 30 days prior to advertising for bid (60 days prior to construction) on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said reports shall describe the nature, cost, and scheduling of all actions necessary to preclude such discharge. In no case will any discharge of wastes in violation of permit and order be permitted unless notification is made to the Executive Officer and approval obtained from the Regional Board.
4. **Self-Monitoring Reports**

Written reports shall be filed regularly for each calendar month (unless specified otherwise) and filed no later than the fifteenth day of the following month. The reports shall be comprised of the following:

a. **Letter of Transmittal:**

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include:

- 1) Identification of all violations of waste discharge requirements found during the reporting period,
- 2) Details of the magnitude, frequency, and dates of all violations,
- 3) The cause of the violations, and
- 4) Discussion of the corrective actions taken or planned and the time schedule for completion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory.

Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer or ranking elected official of the discharger, or by a duly authorized representative of that person.

The letter shall contain the following certification:

"I certify under penalty of law that this document and all attachments are 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 managed 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 fine and imprisonment for knowing violations."

b. Map or Aerial Photograph

A map shall accompany the report showing sampling and observation station locations.

c. Effluent Data Summary

Summary tabulations of the data shall include for each constituent total number of analyses, maximum, minimum, and average values for each period. Flow data shall be included. The original is to be submitted to:

Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

5. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain both tabular and graphical summaries of the monitoring data during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements.