

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

for

The Presidio Trust
Presidio of San Francisco
City and County of San Francisco, California

ORDER No. R2-2004-0001

January 21, 2004

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.

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 wastewater requirements and prohibitions established by this Regional Board; and
2. To facilitate self-policing by the discharger in the prevention and abatement of pollution arising from wastewater treatment and disposal.

II. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to Code of Federal Regulations Title 40, Section 136 (40 CFR S136), or other methods approved and specified by the Executive Officer of this Regional Board.

Wastewater analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DHS), or a laboratory waived by the Executive Officer from obtaining a DHS certification for these analyses.

The director of the laboratory whose name appears on the certification, or his/her laboratory supervisor who is directly responsible for the analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his/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.

III. DEFINITION OF TERMS

A. Recycled Water Production and Distribution Areas

Presidio Trust (Trust) is the producer of recycled water for use on designated Recycled Water Reuse Areas in the Presidio (Area B). Recycled water will also be distributed off-site by the Trust to Crissy Field (Area A). The Trust is responsible for the quality of the recycled water released for distribution to Areas A and B and for the oversight of operation and maintenance of the recycled water distribution facilities in Area B. The Trust shall require Users to submit self-monitoring data to the Trust to be incorporated into the Trust's SMP as required by the User agreement entered into between the User and Trust. The Trust is responsible for submittal of the required monitoring reports to the Regional Board.

B. SAMPLES

1. A grab sample is an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples represent only conditions existing at the time of sample collection. Grab samples are used primarily in determining compliance with daily or instantaneous maximum limits.
2. A flow sample is the accurate measurement of the average flow volume over a given period of time, using a properly calibrated and maintained flow measuring device. Flows calculated from properly maintained pump usage records for accurately calibrated pumps are acceptable.

C. STANDARD OBSERVATIONS

Recycled Water Use Areas

1. Evidence of recycled water escaping the recycled water use area through airborne spray (show affected area on a sketch).
2. Nuisance odor from pond: If present, indicate apparent cause, characterization, direction of travel, and any public use area or off-site facility affected.
3. Evidence of prolonged ponding of recycled water, or of mosquitoes breeding within the use area due to ponding.
4. Observations recorded and reported along irrigation distribution system for broken or poorly adjusted spray equipment.

IV. DESCRIPTION OF SAMPLING AND OBSERVATIONS

NOTE: A sketch showing identification and locations of all stations described below shall accompany the first monitoring report, and subsequent reports when locations are added or changed, or a violation is reported.

(1) WASTEWATER TREATMENT SYSTEM (Presidio Trust)

STATION DESCRIPTION

- A-1 At a point prior to the wastewater treatment system.
- E-1 At a point in the wastewater system following the tertiary treatment system, following disinfection, and prior to the distribution system.
- E-2 At a point following the recycled water storage tank

(2) RECYCLED WATER USE AREA (Trust -T/Users-U)

STATION DESCRIPTION

T-1 thru T-‘n’ (Presidio Trust)	Located at about 300 foot intervals around the perimeter of the recycled water use areas (Obs. Intervals adjusted to area being irrigated).
U-1 thru U-‘n’ (NPS)	Located at about 300 foot intervals around the perimeter of the recycled water use area (Obs. Intervals adjusted to area being irrigated).

V. SCHEDULE OF SAMPLING, ANALYSES AND OBSERVATIONS

Sampling, analyses and observations shall be conducted according to the schedule given in Table 1 and Table 1 Footnotes (SMP Attachment A).

Interim System Monitoring

To document that the new wastewater treatment and distribution system is working effectively, the chemical and coliform sampling and analyses program (see Table 1) shall be performed on a more frequent basis as proposed by the Trust and as found satisfactory to the Executive Officer after initial start-up until a stable and consistent system performance is demonstrated.

VI. GENERAL OPERATION and MAINTENANCE (O&M)

The **O & M Manual** shall include scheduling of specific tasks to ensure the treatment and distribution systems will consistently and reliably perform according to the design criteria. All monitoring practices identified in the O&M Manual must be implemented.

VII. REPORTS TO BE FILED WITH THE REGIONAL BOARD

A. Self-Monitoring Reports (SMR)

The Trust shall submit written reports to the Regional Board for each calendar month. Reports shall be submitted to this Regional Board’s office no later than the thirtieth day of the following month. Each SMR shall include the following:

1. Letter of Transmittal, including:
 - (a). Discharger’s name, address, phone number & contact person;
 - (b). The monitoring period being reported, by month and year;
 - (c). The name of the responsible Regional Board staff member;
 - (d). Tabulations of the results from all required sampling, analyses and observations specified in Table 1 and its Footnotes (SMP Attachment A) by date, sample type and station.
 - (e). Discussion of violations found during the monitoring period, including causes and corrective actions taken or planned in order to prevent future violations;
 - (f). Discussion of any special events pertinent to maintaining compliance with water reuse requirements, such as equipment repair or replacement, or operational changes;
 - (g). Signatory statement by the Trust’s Recycled Water Supervisor or designated agent, under penalty of perjury, that to the best of the signer’s knowledge the report is true, accurate and complete

2. Recycle Water User SMPs.

The Trust shall require Recycle Water Users submit recycled water distribution system SMPs (observations, problems, and corrections) to the Trust in accordance with the Trust-User Agreements. The reports will be incorporated into the Trust SMP. Any system failures or emergencies requiring immediate attention will be reported to the Trust pursuant to the User Agreement.

B. Report of Permit Violation

In the event the Trust violates, or threatens to violate the conditions of water reuse requirements due to:

- a. Maintenance work, power failure, or breakdown of wastewater treatment or transport equipment;
- b. Accidents caused by human error or negligence; or
- c. Other causes such as acts of nature;

The Trust shall:

- a. Notify the Regional Board office by telephone, as soon as the Trust, or agent, has knowledge of the event; and
- b. Submit a followup written report within two weeks of the event. The written report shall include pertinent information explaining reasons for the non-compliance, actions taken to correct the problem and dates thereof, and actions being taken to prevent the problems from recurring.

I, Bruce H. Wolfe, Executive Officer, do hereby certify that the foregoing Self-monitoring Program is effective on the date shown below and may be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Presidio Trust.

Bruce H. Wolfe
Executive Officer

Effective Date: January 21, 2004

Attachment A: Table 1

PRESIDIO TRUST of SAN FRANCISCO
WATER REUSE REQUIREMENTS
Self-Monitoring Program, Attachment A

TABLE 1
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

LEGEND FOR TABLE 1:

Sampling Station		A-1	E-1	E-2	T/U	
Type of Sample Parameter,	Units	C	G	C/G	G	Ob
Flow Rate	(gpd)	X				
BOD _s	(mgL/)		W	W		
Tot. Susp. Solids	(mg/L)		W	W		
Nitrate Nitrogen as N	(mg/l)		W	W		
Total Coliform	(MPN/100ml)			2/W		
Turbidity	(NTU)			X		
pH	(units)		X	X		
Chlorine Residual					2/W	
Standard Observations						2/W

Types of Samples

Frequency of Sampling

G = grab sample

W = Once each week

C= Continuously Measured

2/W = Two days per week

Ob = Std. Observations

X = Continuously Monitored

Type of Stations

A = Treatment Plant Influent

E-1 = Effluent from Treatment Plant

E-2 = Effluent from Recycled Water Storage Tank

T/U = Trust/Users Standard Observations when recycled water is being distributed to the irrigation sites