

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street
San Luis Obispo, California 93401

WASTE DISCHARGE AND RECYCLED WATER PRODUCER REQUIREMENTS ORDER
NO.98-60

Waste Discharger Identification No. 3279804003

For
RANCHO SAN CARLOS PARTNERSHIP
Monterey County

The California Regional Water Quality Control Board, Central Coast Region, (hereafter the Board) finds:

1. Don Wilcoxon, representing the Rancho San Carlos Partnership, submitted a complete Report of Waste Discharge on April 22, 1998, in accordance with Section 13260 of the California Water Code. The report was filed for authorization to discharge treated domestic wastewater within the Carmel River Hydrologic Area.
2. The Rancho San Carlos Partnership (hereafter Producer) will operate a tertiary wastewater treatment and disposal system for a recreational and residential development project located in Carmel Valley in the Santa Lucia Preserve. The wastewater treatment facility will serve flows from the Rancho San Carlos Subdivision (subdivision). The recreational and residential subdivision and the proposed treatment and spray irrigation areas (Projected Sections 16, 17, & 19, T17S, R2E, MD B&M Mt. Carmel quad.), are shown on attachment "A" of this order.
3. Average dry weather flow from the subdivision is estimated at 50,000 gallons per day. Estimated flow is based on per household water consumption rates for similar residences in the area. Tertiary treatment will consist of fine screening, flow equalization, clarification, trickling filters, secondary clarification, chemical addition, flocculation, pressure sand filtration and disinfection. Standby power and system monitoring and alarms are also proposed.
4. The Producer will provide sewer service to the subdivision. The Producer will use golf course irrigation as the primary method of waste disposal. A deed restriction has been placed on the Santa Lucia Golf Trail property requiring reuse of all available wastewater from the subdivision at the golf trail.
5. Soils in the area consist of Santa Ynez fine sandy loam. Depth to groundwater first encountered is about 150 feet below the ground surface.
6. The Producer will store treated recycled water in a lined reservoir with 120 day storage capacity. Long term storage is used when irrigation is not allowed, typically during the wet season. The Producer will divert inadequately treated flows to a short term (3 day) lined storage pond. Inadequately treated flows will be redirected back through the plant prior to long term storage and delivery for reuse.
7. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan), was revised and adopted by the Board on September 8, 1994. The Basin Plan incorporates statewide plans and policies by reference

and contains a strategy for protecting beneficial uses of State waters.

8. Beneficial uses of groundwater in the vicinity of areas where recycled water use and disposal will occur include Domestic, Agricultural, and Industrial Water Supply.
9. State Department of Health Services' criteria for use of reclaimed water is in Title 22, Chapter 3, of the California Code of Regulations. The Board has consulted with this Department regarding the regulation of this discharge.
10. The Supervisors of Monterey County certified a final Environmental Impact Report on February 6, 1996 in accordance with the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) and the California Code of Regulations.
11. Discharge of waste is a privilege, not a right, and authorization to discharge is conditional upon the discharge complying with provisions of Division 7 of the California Water Code and any more stringent effluent limitations necessary to implement water quality control plans, to protect beneficial uses, and to prevent nuisance. Compliance with this Order should assure this and mitigate any potential adverse changes in water quality due to the discharge.
12. On **June 2, 1998**, the Board notified the Discharger and interested persons of its intent to issue waste discharge requirements, provided them with an opportunity to submit their written views and recommendations, and scheduled a public hearing.
13. In a public hearing on September 11, 1998, the Board heard and considered all comments pertaining to the discharge and found this Order consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, the Rancho San Carlos Partners, its agents, successors, and assigns, may produce and deliver recycled water for golf course and landscape irrigation, providing they comply with the following:

(Requirements are based on staff's professional judgment and recommendations from state and county environmental health agencies for the protection of public health and the environment.)

A. PROHIBITIONS

1. Delivery of inadequately treated recycled water is prohibited.
2. Introduction of any substance into the waste stream which adversely affects the collection, treatment, or disposal facility is prohibited.
3. Storage pond freeboard less than 2 feet is prohibited.

B. RECLAMATION PRODUCER SPECIFICATIONS

1. Reclaimed water produced shall be disinfected tertiary treated water suitable for non-restricted spray irrigation and at all times shall be adequately disinfected, coagulated, clarified, filtered wastewater.
2. Reclaimed water produced shall be suitable for nonrestricted spray irrigation and at all times shall be adequately disinfected, coagulated, clarified, filtered wastewater.
3. The median number of total coliform bacteria measured in disinfected effluent discharged to the storage pond shall not exceed an MPN of 2.2 per 100 milliliters using bacteriological results of the last 7 days for which analyses have been completed. The number of total coliform bacteria shall not exceed an MPN of 23 per 100 milliliters in more than one sample in any thirty-(30) day period. No sample shall

exceed an MPN of 240 total coliform bacteria per 100 milliliters.

4. Reclaimed water used for golf course irrigation shall not contain constituents in excess of the following:

<u>Constituent</u>	<u>Unit</u>	<u>Mean</u>	<u>Maximum</u>
BOD ₅	mg/L	5*	10
Suspended Solids	mg/L	5*	10
Settleable Solids	ml/L	-	0.1
Total Dissolved Solids	mg/L	-	600
Sodium	mg/L	-	125
Chloride	mg/L	-	125
Nitrate (as Nitrogen)	mg/L	-	15

*Compliance shall be determined based on a thirty day average

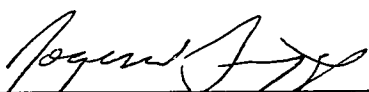
5. Reclaimed water delivered shall not have a pH less than 6.5 or greater than 8.4.
6. Reclaimed water shall be subject to a chlorine disinfection process that provides a CT (chlorine concentration times modal contact time) value of not less than 450 milligram-minutes per liter at all times with a modal contact time of at least 90 minutes, based on peak dry weather design flow.
7. Turbidity of filtered wastewater shall not exceed any of the following: (a) A daily average of 2NTU; (b) 5 NTU more than 5 percent of the time; and, (c) 10 NTU any time.

C. PROVISIONS

1. Discharger shall comply with "Monitoring and Reporting Program No. 98-60," as specified by the Executive Officer.
2. Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements," dated January, 1984 (also referred to as "Standard Provisions"), except Item Nos. A.8, A.17, and C.16.
3. Pursuant to Title 23, Division 3, Chapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Executive Officer not later than July 1, 2007, addressing:
 - a. Whether there will be changes in continuity, character, location, or volume of the discharge; and,
 - b. Whether, in their opinion, there is any portion of the Order that is incorrect, obsolete, or otherwise in need of revision.
4. Alarms shall be installed to detect system malfunction and notify the Discharger of the condition.
5. Standby power shall be made available on-site for periods of extended power loss.

S:\WB\Coastal Watershed\Staff\MThompson\Regulated Facilities\WDR\Rancho San Carlos\Corrected WDR Order 98-60.doc

I, **Roger Briggs, 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, Central Coast Region, on September 11, 1998.


 Roger W. Briggs, Executive Officer

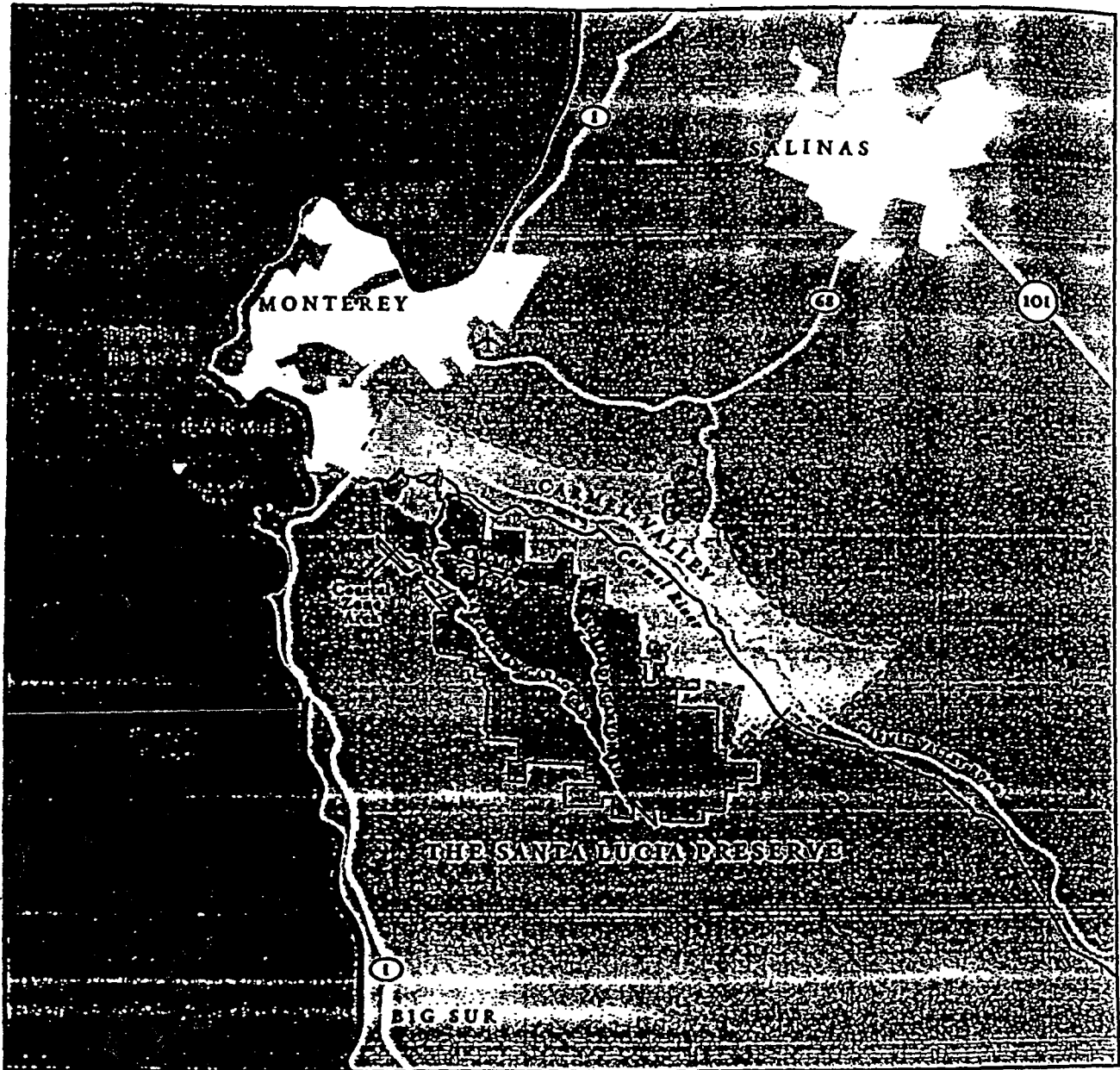


FIGURE 1
Location Map



Attachment A
Rancho San Carlos
Recycled Water Producer Requirements
Order No. 98-60

The Santa Lucia Preserve