

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
1102-A Laurel Lane  
San Luis Obispo, California 93401

ORDER NO. 87-146

WASTE DISCHARGE REQUIREMENTS  
FOR  
DENNIS KEITH  
PRUNETREE SHOPPING CENTER  
MONTEREY COUNTY

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

1. Mr. Dennis Keith, owner of Prunetree Shopping Center (hereafter discharger), filed a Report of Waste Discharge on behalf of the Prunetree Shopping Center in accordance with Section 13260 of the California Water Code. The report was filed for authorization to discharge treated domestic wastewater within the Salinas River Sub-basin.
2. The Discharger proposes to operate a wastewater system to serve a shopping center located at Highway 101 and Vierra Canyon Road in Prunedale, five miles north of Salinas. The facilities are as shown on Attachment "A" of this order.
3. Up to 16,500 gallons-per-day (63 m<sup>3</sup>/day) of treated wastewater is proposed for discharge at this facility. The facility consists of a package-type treatment plant (sequencing batch reactor) designed to remove nitrogen, a leachfield system and pump station. Wastewater will be discharged to a 2-acre leachfield area located on a hillside above the shopping center. An alternate leachfield area may be built under a porous-paved parking area if needed.
4. The wastewater discharge area is located on sloping (about 15%) topography consisting of clayey-sand soils to a depth of 60 feet. Depth to ground water within the discharge area is greater than 60 feet. No data is available on water quality from a proposed domestic waterwell on site, but data on water quality from surrounding wells in the area indicates ground water is suitable for recognized beneficial uses.
5. An unnamed, intermittent tributary to Tembladero Slough is located adjacent to the facility and flows in a south-southwesterly direction toward Moss Landing.
6. The Water Quality Control Plan, Central Coastal Basin, (Basin Plan) was adopted by the Board on March 14, 1975, and approved by the State Water Resources Control Board on March 20, 1975. The Basin Plan incorporates statewide plans and policies by reference and contains a strategy for protecting beneficial uses of State waters. It contains specific recommendations and prohibitions concerning discharges from onsite wastewater systems similar to that proposed by the discharger.

Item 15 Attachment 2  
May 12, 2006 Meeting  
WDR Order 87-146

7. Present and anticipated beneficial uses of groundwater in the vicinity of the discharge include:
  - a. Municipal and domestic supply;
  - b. Agricultural supply; and,
  - c. Industrial service supply.
  
8. Present and anticipated beneficial uses of surface waters that could be affected by the discharge include:
  - a. Municipal and domestic supply;
  - b. Agricultural supply;
  - c. Industrial service supply;
  - d. Groundwater recharge;
  - e. Water contact recreation;
  - f. Non-water contact recreation;
  - g. Wildlife habitat;
  - h. Warm freshwater habitat;
  - i. Fish migration; and,
  - j. Fish spawning.
  
9. On July 14, 1981, the Monterey County Board of Supervisors certified Environmental Impact Report No. 80-112 for the Dennis Keith Reclassification Project to allow a shopping center complex at Highway 101 and Vierra Canyon Road. LLS Planning Associates prepared a supplement to EIR No. 80-112 in January, 1987. Water quality related issues were deferred to an engineering firm to prepare a detailed wastewater study. Compliance with these Waste Discharge Requirements should mitigate any water quality problems related to the project.
  
10. 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.
  
11. On July 15, 1987, the Board notified the Discharger and interested agencies and persons of its intent to adopt waste discharge requirements for the discharge and provided them with a copy of the proposed order and an opportunity to submit written views and comments.
  
12. After considering all comments pertaining to this discharge during a public hearing on October 9, 1987, this Order was found consistent with the above findings.

IT IS HEREBY ORDERED, pursuant to authority in Section 13263 of the California Water Code, Dennis Keith, his agents, successors, and assigns, may discharge waste at Prunetree Shopping Center providing compliance is maintained with the following:

(Note: other prohibitions and conditions, definitions, and the method of determining compliance are contained in the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January, 1984. Applicable paragraphs are referenced in paragraph D.2. of this Order.)

A. Prohibitions

1. Discharge to areas other than the wastewater discharge area shown in Attachment "A" is prohibited.
2. Bypass of the treatment facility and discharge of untreated or partially treated wastes directly to the wastewater discharge area is prohibited.

B. Discharge Specifications

1. The maximum daily flow shall not exceed 16,500 gallons (63 m<sup>3</sup>), or the total available design capacity of the leachfield system, whichever is less. Total available design capacity is the capacity determined and certified by a professional engineer as installed, operable, and consistent with terms of this order. Determinations and certification of the capacity shall be submitted to, and subject to the approval of, the Executive Officer.
2. There shall be no observable oil or grease discharged into the leachfield area at any time.
3. Effluent discharged to land areas shall not exceed the following limitations:

<u>Parameter</u>	<u>Units</u>	<u>Maximum</u>
Total Dissolved Solids	mg/l	1500
Total Nitrogen	gms/ac-day	40

4. Effluent discharged shall not have a pH less than 6.5 or greater than 8.4.

5. Dual leachfields, each capable of disposing of 100 percent of the design maximum wasteflows, shall be installed in each discharge area. Diversion boxes or effluent control valves shall be capable of isolating each leachfield. Effluent will be periodically switched to alternate leachfield area at least semi-annually.
6. Leachfield application rates shall not exceed the following:

<u>Percolation Rate</u> min/in	<u>Loading Rate</u> gpd/ft <sup>2</sup>
1-20	0.8
21-30	0.6
31-60	0.25
61-120	0.1

7. Effluent shall not be discharged within 100 feet of any surface stream or drainageway, or domestic water supply well.
8. Discharge shall remain underground at all times.
9. Distance between leachfield bottoms and highest seasonal ground water shall be eight (8) feet at all times.
10. Leachfield areas shall be graded to preclude rain waters from ponding on the ground surface.
11. Drainfields shall include riser pipes to facilitate checking water levels.
12. Surface drainage shall be excluded from leachfield disposal areas.
13. Standby pumps and emergency power shall be provided as needed to prevent discharge to drainageways during power failure.
14. Risers to ground surface shall be installed over leachfields to facilitate inspection.
15. Grease traps shall be provided at all restaurants or other grease producing facilities.
16. Any paving over leachfields shall be open to the ground to permit inspection for surfacing effluent.

## C. Ground Water Limitations


1. The discharge shall not cause nitrate concentrations in the ground water downgradient of the disposal area to exceed 8 mg/l (as N) or background concentrations, whichever is greater.
2. The discharge shall not cause a significant increase of mineral constituent concentrations in underlying ground waters, as determined by comparison of samples collected from wells located upgradient and downgradient of the disposal area.
3. The discharge shall not cause concentrations of chemicals and radionuclides in ground water to exceed limits set forth in Title 22, Chapter 15, Articles 4 and 5 of the California Administrative Code.

## D. Provisions

1. Discharger shall comply with "Monitoring and Reporting Program No. 87-146, 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; except Items A.11. A.17., and C.16.
3. Pursuant to Title 23, Chapter 3, Subchapter 9, of the California Administrative Code, the Discharger must submit a written report to the Executive Officer not later than April 1, 1992, addressing:
  - a. Whether there will be changes in the 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. Discharger shall operate and maintain all wastewater facilities in accordance with an Operations Manual for the complex that is subject to the approval of the Executive Officer. The Operations Manual, including a copy of as-built plans and engineering calculations justifying allowable flow rate indicated in Discharge Specification No. B.1, shall be periodically updated and submitted to the Regional Board within ten days whenever there is a change in operational procedures or an expansion of the system. A copy of as-built plans shall be maintained on file with the Regional Board.

5. Discharger shall reserve sufficient land (approximately 1.9 acres) in the disposal area to construct two leachfields each capable of disposing one hundred percent (100%) of the maximum design SBR flow of 16,500 gallons-per-day. A dual leachfield expansion area capable of disposing one hundred percent (100%) of the maximum design flow of 16,500 gallons-per-day shall be left available if needed.
6. Discharger shall comply with recommendations of the Basin Plan pertaining to design, construction, and operation of an ISDS system.

I, **WILLIAM R. LEONARD**, 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 October 9, 1987.

  
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Executive Officer

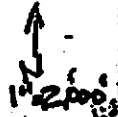


SITE OF PRUNETREE SHOPPING CENTER

ATTACHMENT "A"

DENNIS KEITH

PRUNETREE SHOPPING CENTER



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL COAST REGION  
MONITORING AND REPORTING PROGRAM NO. 87-146  
(Revised 5/15/03)  
FOR  
DENNIS KEITH  
PRUNETREE SHOPPING CENTER  
MONTEREY COUNTY

WATER SUPPLY MONITORING

Representative samples of each of the discharger's water supply well(s) shall be collected and analyzed for Total and Fecal Coliform Organisms on an annual basis in March.

FLOW MONITORING

Waste volumes of the waste discharge shall be monitored by a flow measuring device approved by the Executive Officer. Flow data shall be submitted in a format acceptable to the Executive Officer.

EFFLUENT MONITORING

Samples of the effluent shall be collected and analyzed as follows:

<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
pH	pH Units	Semi-Annually (Mar. and Sept.)
COD	mg/l	Semi-Annually (Mar. and Sept.)
Total Dissolved Solids	mg/l	Semi-Annually (Mar. and Sept.)
Total Nitrogen (as N)	mg/l	Semi-Annually (Mar. and Sept.)
Sodium	mg/l	Semi-Annually (Mar. and Sept.)
Chloride	mg/l	Semi-Annually (Mar. and Sept.)
MBAS	mg/l	Semi-Annually (Mar. and Sept.)
Silver	mg/l	Semi-Annually (Mar. and Sept.)

GROUND WATER MONITORING

Representative samples of ground water shall be obtained from shallow monitoring wells located upgradient and downgradient of the discharge area. Well construction and well depth shall be as approved by the Executive Officer. Wells shall be pumped to purge standing water from the casing prior to sampling. Depth to ground water shall be measured in March and September.

Collected samples shall be analyzed for the following parameters in accordance with the frequency specified below:




<u>Parameter</u>	<u>Units</u>	<u>Frequency</u>
pH	pH Units	March & September
COD	mg/l	March & September
Electrical Conductivity	micromhos/cm	March & September
MBAS	mg/l	March & September
Ammonia (as N)	mg/l	March & September
Nitrate (as N)	mg/l	March & September
Silver	mg/l	March & September

Discharge Area and Pump Station Inspection

The discharger shall make at least weekly visual inspections of the treatment and disposal systems and the pump station. In making inspections, the Discharger shall note compliance status with this Order, particularly Discharge Prohibition A.1. A log of inspections shall be maintained and submitted with the regular reporting data. A maintenance log shall be kept for pump station repairs. Discharger's agent may be substituted for discharger.

REPORTING

Monitoring reports shall be submitted by the 1st day of May and November and shall include all data collected since the previous report.

ORDERED BY   
Executive Officer

May 15, 2003  
Date

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