

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL COAST REGION
81 Higuera Street, Suite 200
San Luis Obispo, California 93401-5427

WASTE DISCHARGE REQUIREMENTS ORDER NO. 01-031

WDID No. 3 440801001
1005001

FOR

SANTA CRUZ COUNTY SERVICE AREA (CSA) #10
ROLLING WOODS SUBDIVISION WASTEWATER TREATMENT FACILITY
SANTA CRUZ COUNTY

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

SITE OWNER AND LOCATION

1. On July 3, 2000, John A. Fantham, California County of Santa Cruz, District Engineer, filed a Report of Waste Discharge. The report was filed on behalf of Santa Cruz CSA #10, Rolling Woods Subdivision Wastewater Treatment Facility for authorization to continue discharging treated domestic wastewater within the San Lorenzo River sub-basin.
2. County of Santa Cruz (hereafter Discharger), Department of Public works, 701 Ocean Street, Room 410, Santa Cruz, owns and operates a wastewater treatment facility. The facility is an extended aeration wastewater treatment package plant with discharge to twenty-three seepage pits. It is located in Santa Cruz County on Graham Hill Road approximately two miles north of the City of Santa Cruz as shown on Attachment "A" of this Order.

PURPOSE OF ORDER

3. The purpose of this order is to regulate the discharge of treated domestic wastewater.

SITE/FACILITY DESCRIPTION

Discharge Type

4. The facility is designed to treat and dispose domestic wastewater from residential dwellings.

Design and Current Capacity

5. The facility is an extended aeration wastewater treatment package plant with discharge to twenty-three seepage pits. (See Attachments A & B).
6. The facility is designed to treat an average dry weather flow of 13,000 gallons per day (gpd). The facility's disposal area, however, has a disposal capacity of 11,000 gpd.

Geology

7. The disposal area is located on gently sloping topography (approximately 5% slope) consisting of sandy soils.

Surface and Groundwater

8. The facility is located in the lower portion of the San Lorenzo River watershed. An unnamed tributary to the San Lorenzo River watershed is located approximately ¼ mile west of the seepage pits. The unnamed

tributary flows in a southwest direction for about ¾ mile before entering the San Lorenzo River.

9. Depth to ground water is estimated to be 35 feet and generally migrates in a westerly direction. No ground water data has been collected by the Discharger near this facility.
10. The nearest ground water well is approximately one mile up gradient from the seepage pits disposal area.
11. Storm water flows from the vicinity of the leachfield area and into the San Lorenzo River. The facility is not required to have a storm water pollution prevention plan because the flow is less than 1 million gpd (see storm water control requirements in Specification No. 9 of this Order).

MONITORING AND REPORTING PROGRAM (MRP)

12. The MRP requires influent monitoring, effluent monitoring, and system performance monitoring. No ground or surface water monitoring is proposed at this time.
13. Sampling and inspection results shall be reported quarterly by the 1st day of February, May, August, and November.

BASIN PLAN

[Note: Throughout the Order superscripts (^{BP}) are provided to indicate requirements taken from the Basin Plan. Requirements not referenced are based on staff's professional judgment.]

14. The Water Quality Control Plan, Central Coastal Basin (Basin Plan), was adopted by the Regional Board on November 17, 1989, and approved by the State Water Resources Control Board on August 16, 1990. The Regional Board approved amendments of the Plan on February 11, 1994 and September 8, 1994. The Basin Plan incorporates statewide

plans and policies by reference and contains a strategy for protecting beneficial uses of State waters.^{BP}

15. Present and anticipated beneficial uses of San Lorenzo River that could be affected by the discharge include:^{BP}
 - a. Domestic and municipal supply;
 - b. Agricultural supply;
 - c. Industrial service supply;
 - d. Ground water recharge;
 - e. Water contact recreation;
 - f. Non-contact water recreation;
 - g. Wildlife habitat;
 - h. Cold fresh-water habitat;
 - i. Fish migration;
 - j. Fish spawning;
 - k. Preservation of Biological Habitats of Special Significance;
 - l. Rare, Threatened, or Endangered Species;
 - m. Fresh Water Replenishment; and
 - n. Commercial and Sport Fishing.
16. Present and anticipated uses of groundwater in the vicinity of the discharge include:^{BP}
 - a. Domestic supply;
 - b. Agricultural supply;
 - c. Industrial process supply; and
 - d. Industrial service supply.

17. The San Lorenzo Wastewater Management Plan (WWMP), adopted by Santa Cruz County Board of Supervisors, was approved by the Regional Board on April 5, 1995 as Resolution No. 95-04. The WWMP includes findings and recommendations resulting from investigation of elevated nitrate levels in surface water and groundwater in the San Lorenzo River watershed. The WWMP recommends the Regional Board require nitrogen control measures in the issuance of new or revised waste discharge requirements. The WWMP's goal is for at least 50 % reduction in nitrogen from onsite disposal systems.^{BP}

- 18. This order requires 50 % reduction of nitrogen in effluent, consistent with Resolution No. 95-04.^{BP}
- 19. The surface water quality objectives specified in the Basin Plan for San Lorenzo River are:^{BP}

Analyte	Value	Units
Total Dissolved Solids	250	mg/l
Sodium	25	mg/l
Chloride	30	mg/l
Boron	0.2	mg/l
Sulfate	60	mg/l

- 20. The range of median ground water quality objectives in the San Lorenzo Sub-Basin, as specified in the Basin Plan, are reported as follows:^{BP}

Analyte	Range	Units
Total Dissolved Solids	100-250	mg/l
Sodium	10-20	mg/l
Chloride	20-30	mg/l
Boron	0.2	mg/l
Nitrate (as N)	1-5	mg/l
Sulfate	10-50	mg/l

CEQA

- 21. These waste discharge requirements are for an existing facility and are exempt from provisions of the California Environmental Quality Act (Public Resources Code, Section 21000, et seq.) in accordance with Section 15301, Chapter 3, Title 14, of the California Code of Regulations.

EXISTING ORDERS AND GENERAL FINDINGS

- 22. The discharge has been regulated by Waste Discharge Requirements Order No. 87-26, adopted by the Regional Board on February 6, 1987. The Regional Board has regulated the discharge from Santa Cruz CSA #10, Rolling Woods Subdivision Wastewater Treatment Facility since 1977.

- 23. 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.
- 24. On January 23, 2001, the Regional Board notified the Discharger and interested agencies and persons of its intent to adopt waste discharge requirements for the discharge and has provided them with a copy of the proposed Order and an opportunity to submit written views and comments.

- 25. In a public hearing on May 18, 2001, the Regional 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, that the County of Santa Cruz, its agents, successors, and assigns, may discharge wastewater at Santa Cruz CSA #10, Rolling Woods Subdivision Wastewater Treatment Facility, 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 Provision No. 3 of this Order.]

PROHIBITIONS

- 1. Discharge of wastewater to the treatment

system from other than Santa Cruz CSA #10, Rolling Woods Subdivision Wastewater Treatment Facility, is prohibited.

- 2. Discharge of wastewater is prohibited outside of the seepage pits.
- 3. Wastewater on the soil surface of the seepage pit disposal area is prohibited.
- 4. Bypass of the collection and treatment systems is prohibited.
- 5. Discharge of untreated or partially treated wastes directly to the seepage pit disposal area is prohibited.

SPECIFICATIONS

Effluent Limitations

- 1. Daily flow averaged over each month shall not exceed 11,000 gallons per day.
- 2. Effluent discharged to the leachfield shall not have a pH less than 6.5 or greater than 8.3. ^{BP}
- 3. Total Nitrogen in wastewater shall be reduced by at least 50 percent prior to subsurface disposal. ^{BP} Compliance will be determined from samples taken at points before and after extended treatment.

Ground Water Limitations

- 4. The discharge shall not cause a statistically significant increase of mineral constituent (total dissolved solids, sodium, chloride, and nitrate) concentrations in the ground water.
- 5. The discharge shall not cause ground water to exceed concentrations of chemical constituents limits specified in Title 22, Chapter 15, Article 4, Section 64435, of the California Code of Regulations as listed below ^{BP}.

Constituents	Maximum Contaminant Level (mg/l)
Nitrate (as N)	10

- 6. The discharge shall not cause concentrations of radionuclides in ground water to exceed limits specified in Title 22, Chapter 15, Articles 5, Section 64443 of the California Code of Regulations. ^{BP}
- 7. The discharge shall not cause concentrations of organic chemicals in ground water to exceed limits specified in Title 22, Chapter 15, Articles 5.5, Section 64444.5 of the California Code of Regulations. ^{BP}

System Operation Specifications

- 8. High water alarms, readily audible or visible to maintenance personnel, shall be installed at the facility.
- 9. Standby power or portable pumps shall be available for use when wastewater-pumping facilities fail.

Solids/Solid Waste Control

- 10. Solids cleaned from the treatment unit shall be disposed of at a septage receiving facility approved by the Regional Board Executive Officer.

Storm Water Control

- 11. Extraneous surface drainage shall be diverted away from the treatment system and seepage pit disposal area.

PROVISIONS

- 1. Order No. 87-26, "Waste Discharge Requirements for Santa Cruz County Service Area No. 10, Rolling Woods Subdivision, Santa Cruz County" adopted by the Regional Board on February 6, 1987, is hereby rescinded.
- 2. The Discharger shall submit an annual Salts Management Program Report. The report shall detail steps taken to reduce salts in the effluent. The report shall be submitted with the 1st quarter monitoring report for each year.
- 3. The Discharger shall comply with "Monitoring and Reporting Program No. 01-

031", and any amendments thereto, as specified by the Regional Board Executive Officer.

4. The Discharger shall comply with all items of the attached "Standard Provisions and Reporting Requirements for Waste Discharge Requirements" dated January 1984; except Item Nos. A.8 and A.11.
5. Pursuant to Title 23, Division 3, Chapter 9, of the California Code of Regulations, the Discharger must submit a written report to the Regional Board Executive Officer not later than January 1, 2010, 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.

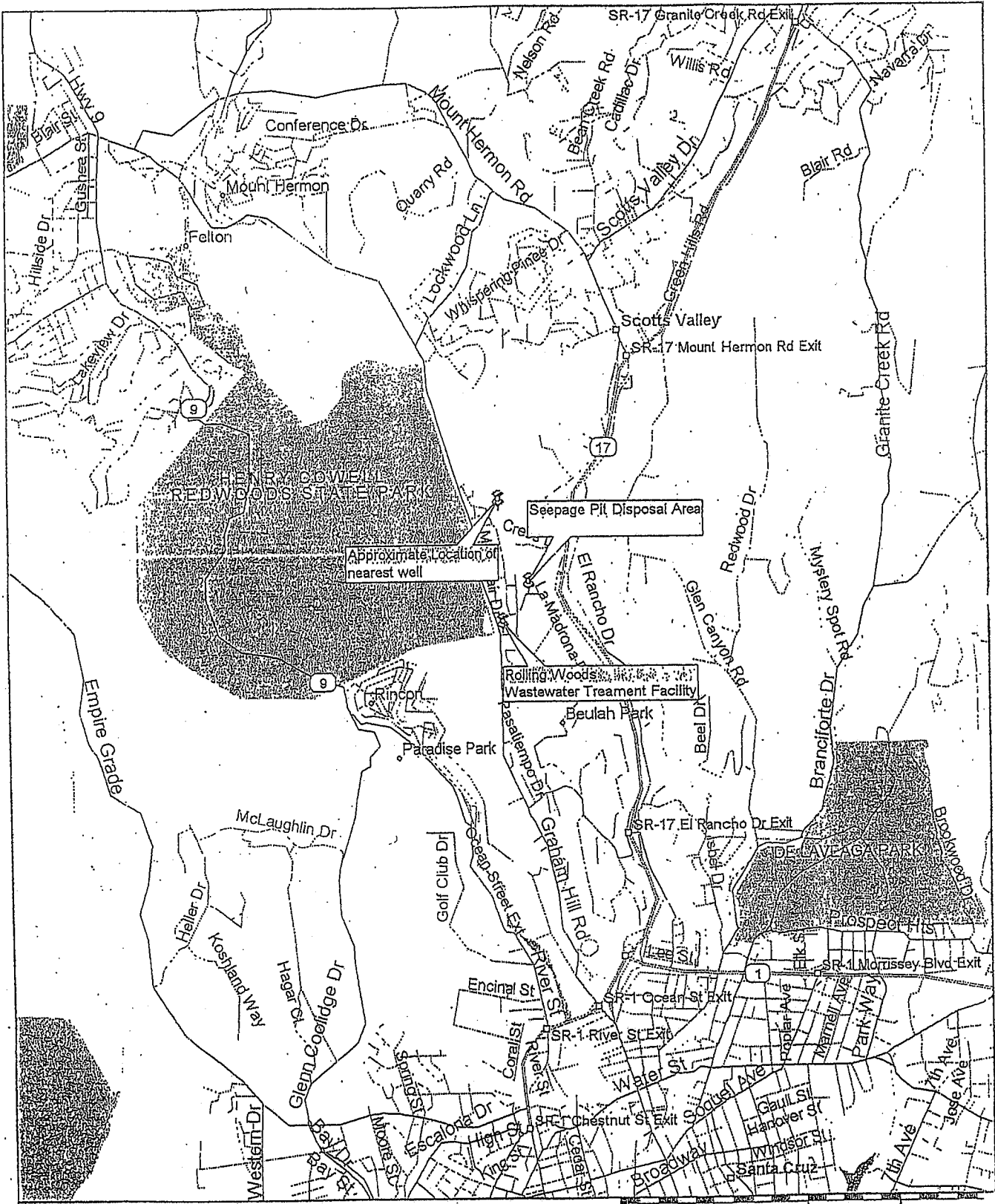
ATTACHMENTS

1. Attachment A, Site and Vicinity Map
2. Attachment B, Process Diagram
3. Monitoring and Reporting Program No. 01-031
4. Standard Provisions and Reporting Requirements for Waste Discharge Requirements

I, Roger W. 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 May 18, 2001.


Executive Officer

ATTACHMENT A ROLLING WOODS FACILITY



Streets98

ROLLING WOODS WASTEWATER TREATMENT PLANT
PROCESS DIAGRAM

