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Secretary for
Environmental Protection

file
California Regional Water Quality Control Board
San Diego Region



Arnold Schwarzenegger
Governor

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June 18, 2007

CERTIFIED MAIL
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Mr. Bert Caster
Oak Tree Ranch
2239 Black Canyon Road, #80
Ramona, CA 92065

**SUBJECT: ADOPTION OF ORDER NO. R9-2007-0046 WASTE DISCHARGE
REQUIREMENTS FOR OAK TREE RANCH PRIVATE RESIDENTIAL
COMMUNITY WASTEWATER TREATMENT AND DISPOSAL FACILITY,
NEAR RAMONA, SAN DIEGO COUNTY**

Dear Mr. Caster:

Enclosed is a copy of Order No. R9-2007-0046, which the Regional Board adopted on June 13, 2007. Order No. R9-2007-0046 established waste discharge requirements for the treatment and disposal of up to 40,000 gallons per day of treated wastewater via subsurface irrigation from the Oak Tree Ranch Private Residential Community Wastewater Treatment Plant.

Please note that the adoption date of June 13, 2007 is the date Order No. R9-2007-0046 went into effect.

If you have any questions, please contact Michelle Mata at (858) 467-2981, or via email at mmata@waterboards.ca.gov.

The heading portion of this letter includes a Regional Board code number noted after "In reply refer to:" In order to assist us in the processing of your correspondence please include this code number in the heading or subject line portion of all correspondence and reports to the Regional Board pertaining to this matter.

Respectfully,

JOHN H. ROBERTUS
Executive Officer

California Environmental Protection Agency

Mr. Bert Caster

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June 18, 2007

JHR:mpm:bdk:mm

Enclosure: Order No. R9-2007-0046

cc:

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Mike D. Hedenland (via email)

California Environmental Protection Agency

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CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ORDER NO. R9-2007-0046

WASTE DISCHARGE REQUIREMENTS
FOR OAK TREE RANCH, INC.
OAK TREE RANCH PRIVATE RESIDENTIAL COMMUNITY
WASTEWATER TREATMENT AND DISPOSAL FACILITY
NEAR RAMONA
SAN DIEGO COUNTY

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**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

ORDER NO. R9-2007-0046

**WASTE DISCHARGE REQUIREMENTS
FOR OAK TREE RANCH, INC.
OAK TREE RANCH PRIVATE RESIDENTIAL COMMUNITY
WASTEWATER TREATMENT AND DISPOSAL FACILITY
NEAR RAMONA
SAN DIEGO COUNTY**

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Board), finds that:

1. On October 14, 1965, this Regional Board adopted Resolution No. 65-R17, A Resolution Prescribing Requirements for the discharge of wastes from the Town and Country Mobile Home Park near Ramona, San Diego County. Resolution No. 65-R17 established requirements for the discharge of up to 20,000 gallons per day (gpd) of wastewater generated from approximately 100 trailer homes and appurtenant facilities.
2. On July 28, 1986, this Regional Board adopted Order No. 86-59, Waste Discharge Requirements for the Town and County Mobile Home Park near Ramona, San Diego County. Order No. 86-59 established requirements for the discharge of up to 20,000 gpd of wastewater generated from 100 trailer homes and appurtenant facilities by percolation and/or by spray irrigation.
3. By letter dated October 18, 1990, Mr. Bert Caster, President of Oak Tree Ranch, Inc. notified the Regional Board that the ownership of the Town and County Mobile Home Park was transferred from Caster Management to Oak Tree Ranch Inc., on October 9, 1990. On December 17, 1990, this Regional Board adopted Addendum No. 1 to Order No. 86-59. Addendum No. 1 transferred responsibility for Order No. 86-59 from Caster Management Company to Oak Tree Ranch Inc., a California corporation.
4. As part of the Fiscal Year 1992-1993 Waste Discharge Order Update Program, on March 15, 1993, this Regional Board adopted Order No. 93-34, Waste Discharge Requirements for the Town and County Mobile Home Park near Ramona, San Diego County. Order No. 93-34 made changes to the findings, requirements and monitoring and reporting program of Order No. 86-59.
5. On June 27, 2005, Oak Tree Ranch, Inc. submitted to this Regional Board an incomplete report of waste discharge (RWD) prepared by 7-H Technical Services

Group, Inc., for an increase in flow from 20,000 gpd to 40,000 gpd. A complete RWD was received on July 7, 2006.

6. The RWD indicates that the name of the facility has been changed from Town and County Mobile Home Park to Oak Tree Ranch Private Residential Community.
7. The RWD describes the proposed waste disposal system as consisting of a 40,000 gpd extended aeration, intermittent cycle, activated sludge process treatment system with a tertiary treatment process train and subsurface disposal to open space areas adjacent to the treatment plant. The report indicates that the existing concrete tank treatment plant will remain in place. Four additional tanks will be installed underground adjacent to the existing plant. Two tanks will be ten feet in diameter and two tanks will be eight feet in diameter. New pipework will interconnect the existing plant to the new plant. The existing sewer collection system consists of approximately 3,200 lineal feet of gravity sewer pipeline.
8. There are currently 139 sites, including a laundry facility, connected to the wastewater system. Upon development of the new facility, an additional 116 mobile home sites will also connect to the wastewater system. Thus, a total of 255 residences and laundry facility will be connected to the wastewater system. The Variance (V65-127) to allow expansion of the mobile home park to a total of 255 spaces was approved by the County of San Diego Board of Supervisors on August 3, 1965.
9. Disposal of treated wastewater involves the use of subsurface drip emitters placed six to eight inches below the ground, spaced on 27-inch centers. The subsurface disposal irrigation provides for a metered well dispersed application of the water over a large area at intermittent pulsing rates. Disposal is achieved by two methods: percolation through the soil and evapotranspiration. Treated wastewater will be applied to selected areas (zones) less than 75 minutes per day spread over any 24 hour period. The application cycle is broken down into 24 intermittent pulsing periods. Application pulse time is approximately 3 minutes out of every hour, thus allowing 57 minutes rest time out of each hour.

The unsaturated soil thickness between the bottom of the subsurface disposal system and the groundwater level is 19 feet, which meets the conditions in the Basin Plan for soils with a percolation rate of 25 minutes per inch. Thus the infiltration of wastewater containing total dissolved solids of 800 mg/l will not cause the Basin Plan groundwater quality objectives of 1000 mg/l for the Santa Maria Hydrologic Area to be exceeded.

10. A summary of results for potable water supply monitoring, taken semiannually by the discharger, from 1995-2006 is as follows:

Constituent	Units	Range	Mean
Total Dissolved Solids	mg/l	251-762.4	477

11. A summary of results for groundwater monitoring, taken semiannually by the discharger, from 1994-2006 is as follows:

Constituent	Units	Range	Mean
Total Dissolved Solids	mg/l	374-468	416.9
Nitrate	mg/l	2.04-36.1	21.1

12. The discharger reported that the tertiary treatment process will produce an effluent with the following characteristics:

Projected Effluent Water Quality

Constituent	Units	Projected Effluent Water Quality
Biochemical Oxygen Demand ₅	mg/L	≤3
Total Suspended Solids	mg/L	≤3
Total Nitrogen (as N)	mg/L	<10
Total Dissolved Solids	mg/L	≤680
pH	units	7-9

13. In accordance with Section 2200, Title 23 of the California Code of Regulations, the threat to water quality and complexity of the treated wastewater discharge from the treatment system is determined to be category 2B.
14. This Regional Board, acting in accordance with Section 13244 of the California Water Code, adopted the Water Quality Control Plan for the San Diego Basin (9), (hereinafter Basin Plan) on September 8, 1994. The Basin Plan was subsequently approved by the State Water Resources Control Board (SWRCB) on December 13, 1994. Subsequent revisions to the Basin Plan have also been adopted by the Board and approved by the SWRCB. The Basin Plan contains beneficial uses and water quality objectives.
15. All wastewater discharges from the proposed wastewater treatment facilities are located within the Ramona Hydrologic Subarea (HSA 905.41) of the Santa Maria Valley Hydrologic Area (HA 905.40) of the San Dieguito Hydrologic Unit (HU 905.00).
16. The Basin Plan establishes the following beneficial uses for the surface waters of the Santa Maria Valley Hydrologic Area, which includes the Ramona Hydrologic Subarea:
- Municipal and domestic supply
 - Agricultural supply

- c. Industrial service supply
 - d. Industrial process supply
 - e. Water contact recreation
 - f. Non-contact recreation
 - g. Wildlife habitat
17. The Basin Plan establishes the following beneficial uses for the groundwater of the Santa Maria Valley Hydrologic Area, which includes the Ramona Hydrologic Subarea:
- a. Municipal and domestic Water supply
 - b. Agricultural supply
 - c. Industrial service supply
 - d. Groundwater recharge (potential)
18. The Basin Plan states that waters designated for use as domestic or municipal supply shall not contain concentrations of chemical constituents in excess of the maximum contaminant levels specified in the California Code of Regulations, Title 22, Table 64449-A of Section 64449 (Secondary Maximum Contaminant Levels, Consumer Acceptance Limits), incorporated by reference, including future changes to the incorporated provisions as the changes take effect. Additionally the Basin Plan establishes the following ground water quality objectives for HA 905.40, which includes HSA 905.41:

BASIN PLAN GROUNDWATER WATER QUALITY OBJECTIVES													(mg/L or as noted)	
(Concentrations not to be exceeded more than 10% of the time during any one year period)														
HYDROLOGIC AREA	TDS	Cl	SO ₄	%Na	*NO ₃	Fe	Mn	M B A S	B	O D O R	TURB (NTU)	COLOR (UNITS)	F	
905.40 Santa Maria Valley	1,000	400	500	60	10	0.3	0.05	0.5	0.75	None	5	15	1	

*Nitrate concentrations are expressed either as concentration of NO₃ or concentration of N. Concentrations expressed as NO₃ are 4.5 times those expressed as N; thus the water quality objective of 10 as NO₃ corresponds to a value of 2.2 as N.

19. A discharge in compliance with this Order will be consistent with the standards, policies, and regulations established in the Basin Plan for the achievement of water quality objectives.
20. In establishing the effluent limits contained herein the Regional Board considered water quality data supplied in the RWD to ensure that groundwater

would not exceed Basin Plan water quality objectives beyond the limits of the disposal area property.

21. This Order reduces the 12-month average effluent limitation for TDS from 900 mg/l to 800 mg/l. Groundwater monitoring submitted by the discharger demonstrates the basin contains high quality water with a mean TDS of approximately 418 mg/l (between 1994-2006). The Statement of Policy with Respect to Maintaining High Quality Waters in California requires that high quality waters of the state are maintained to the maximum extent possible, even where the quality is better than needed to protect the beneficial uses. Projected effluent concentrations submitted by the discharger indicate the proposed system will meet the limitation of 800 mg/l.

Projected TDS effluent concentrations are anticipated to be less than 680 mg/l. Currently the average effluent TDS concentration is 633 mg/l. An increase in flow from 20,000 gallons per day to 40,000 gallons per day has a potential to increase background concentrations above existing levels; however, the effects are anticipated to be minimal.

22. Groundwater monitoring submitted by the discharger reveals concentrations of nitrates with a mean of 20 mg/l as NO_3 (between 1994-2006). This value exceeds the Basin Plan Water Quality Objective of 10 mg/l for Nitrate (as NO_3). In order to avoid further impacts from nitrogen to the basin, this Order establishes effluent limitations for total nitrogen of 9.64 mg/l as a daily maximum and 3.36 mg/l as a 12-month average. Limitations and monitoring must be established for total nitrogen in the effluent since, in wastewaters, many forms of nitrogen exist including ammonia, organic nitrogen, nitrate, and nitrite. Also, discharge specifications and monitoring requirements for total nitrogen are required because it is assumed that there is complete conversion from all forms of nitrogen into nitrate, when the effluent reaches the groundwater.

A 30% removal rate has been applied in deriving the total nitrogen effluent discharge specification. The removal rate includes a 20% removal by denitrification in the soil and a 10% uptake and removal by vegetation.

23. The requirements of this Order were developed to minimize degradation of groundwater by constituents (e.g., toxic chemicals) other than those specified in the groundwater limitations in this Order, and by constituents that can be effectively removed by conventional treatment. Degradation of groundwater by constituents in the discharge after effective source control, treatment, and control are determined to be consistent with maximum benefit to the people of California and will not result in water quality of less than that prescribed in the Basin Plan. This determination is based on considerations of reasonableness under the circumstances of the domestic discharge. Factors considered include:

- a. past, present, and probable beneficial uses of the water (as specified in the Basin Plan);
 - b. environmental aspects of the discharge; and
 - c. the implementation of feasible alternative treatment or control methods.
24. In establishing the requirements contained herein the Regional Board considered factors including, but not limited to, the following:
- a. Beneficial uses to be protected and the water quality objectives reasonably required for that purpose,
 - b. Other waste discharges,
 - c. The need to prevent nuisance,
 - d. Past, present, and probable future beneficial uses of the hydrologic subunits under consideration,
 - e. Environmental characteristics of the hydrologic subunits under consideration,
 - f. Water quality conditions that could reasonably be achieved through the coordinated control of all factors that affect water quality in the area,
 - g. Economic considerations,
 - h. The need for additional housing within the region.
25. The County of San Diego approved the Mobile Home Park in 1965 through a use variance (VAR 65-127). Approval occurred prior to the enactment of the California Environmental Quality Act (CEQA), therefore the project is exempt from CEQA, as specified in a letter from the County of San Diego Department of Planning and Land Use dated March 16, 2002.
26. This Regional Board has considered all water resource related environmental factors associated with the proposed discharge of waste described in this Order.
27. This Regional Board has notified the discharger and all known interested parties of the intent to prescribe waste discharge requirements for the discharge of waste described in this Order.
28. This Regional Board in a public meeting has heard and considered all comments pertaining to the proposed discharge of waste from the Oak Tree Ranch Wastewater Treatment and Disposal Facility.

IT IS HEREBY ORDERED THAT, Oak Tree Ranch, Inc. (hereafter 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 requirements, which supersede the requirements prescribed by Order No. 93-34, for the discharge from the Oak Tree Ranch Mobile Home Park Wastewater Treatment and Disposal Facility to the Ramona Hydrologic Subarea (905.41).

A. PROHIBITIONS

1. Discharge of wastes or sewage sludge or solids to lands that have not been specifically described in the RWD and for which valid waste discharge requirements are not in force are prohibited.
2. Discharges of treated or untreated solid or liquid waste to a navigable water or tributary of a navigable water are prohibited unless authorized by an NPDES permit issued by this Regional Board.
3. Neither the treatment, storage nor disposal of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.
4. The discharge of treated wastewater shall not cause a violation of the prohibitions contained in the Basin Plan.
5. There shall be no discharge of sewage solids at the disposal site.
6. There shall be no surfacing of discharged effluent.
7. There shall be no ponding of discharged effluent or surface flow of effluent away from the disposal area.
8. A monthly average wastewater flow rate at the Oak Tree Ranch Wastewater Treatment and Disposal Facility in excess of 40,000 gpd is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increase in flow.
9. The discharge of waste in any manner other than as described in the findings of this order is prohibited unless the discharger obtains revised waste discharge requirements that provide for the proposed change.

B. DISCHARGE SPECIFICATIONS

1. The discharge of effluent shall comply with the following interim specifications, which will remain in effect until September 30, 2007:

Constituent	Unit	Daily ¹ Maximum	12-month ² Average
Biochemical Oxygen Demand (BOD ₅ @ 20°C)	mg/L	45	30
Total Suspended Solids	mg/L	45	30
Total Dissolved Solids	mg/l	1,000	900
Nitrate as NO ₃	mg/l	15	10

2. Effective October 1, 2007, the discharge of effluent shall comply with the following specifications:

Constituent	Unit	Daily ¹ Maximum	12-month ² Average
Biochemical Oxygen Demand (BOD ₅ @ 20°C)	mg/L	45	30
Total Suspended Solids	mg/L	45	30
pH	within the limits of 6.0 to 9.0 at all times		
Total Dissolved Solids (TDS)	mg/L	1000	800
Chloride	mg/L	450	350
Sulfate	mg/L	700	360
Percent Sodium	%		60
Total Nitrogen (as N)	mg/L	9.64	3.36 ³
Methylene Blue Activate Substances (MBAS)	mg/l	0.90	0.45
Boron	mg/l	1.35	0.65

¹The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

²The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 12 consecutive calendar month period.

³This value is based on 20% denitrification in the soil and 10% uptake by plants. The discharger is required to remove clippings to ensure removal by vegetation. If the discharge complies with a 12-month average of 2.94 mg/l (20% denitrification with no plant uptake) then the discharger is not required to remove clippings.

3. All wastewater treatment and disposal facilities shall be maintained to remain effective in treating wastewater.
4. No part of the subsurface disposal system shall be closer than 150 feet to any water supply well or closer than 100 feet to any stream, channel, or other water source.

C. FACILITY DESIGN AND OPERATION SPECIFICATIONS

1. PROPER OPERATION

The discharger shall, at all times, properly operate and maintain all facilities and

systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Order.

2. CERTIFICATION REPORT

The new wastewater treatment and disposal facilities shall be completely constructed and operable prior to the initiation of the discharge. The completed facilities shall have adequate capacity for the new full design flow of 40,000 gpd. A report from the design engineer certifying the adequacy of each component of the treatment, storage, and disposal facilities shall be submitted by the discharger. The certification report shall also contain an operation and maintenance manual for the wastewater treatment facilities.

Prior to exceeding the existing average daily effluent flow rate of 20,000 GPD, the following requirements shall be met:

- a. The certification report is received and approved by the Regional Board,
- b. The Regional Board has been notified of the completion of facilities by the discharger,
- c. An inspection of the facilities has been made by staff of the Regional Board, and
- d. The Regional Board notifies the discharger by letter that discharge can be initiated.

3. CONSTRUCTION PROGRESS REPORTS

The Discharger shall notify the Regional Board when each new treatment, storage, and disposal component has been completed and certify that the new component has been constructed as designed.

4. WET WEATHER FACILITIES

The discharger shall provide adequate facilities to treat or dispose of wastewater, or use alternatives methods of disposal such as hauling wastewater by a certified waste hauler during and after periods of rainfall when disposal by subsurface dispersal cannot be successfully practiced due to surfacing effluent and to prevent the discharge of treated or untreated waste to any surface water body.

5. OPERATION MANUAL

A copy of the facility operations manual shall be maintained at the discharger's

facility and shall be available to operation personnel and Regional Board staff at all times.

6. FLOOD PROTECTION

All waste treatment, storage and disposal facilities shall be protected against 100-year peak stream flows as defined by the San Diego County flood control agency.

7. RUNOFF PROTECTION

All wastewater storage facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year, 24-hour frequency storm.

8. MONITORING AND REPORTING

The discharger shall comply with the attached Monitoring and Reporting Program No. R9-2007-0046, and future revisions thereto as specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. R9-2007-0046.

D. BIOSOLIDS SPECIFICATIONS

1. Management of all solids and sludge must comply with all applicable requirements of 40 CFR Parts 257, 258, 501 and 503 ; CWA Part 405(d), and Title 27, CCR, applicable for the use or disposal option selected, including all monitoring, record keeping and reporting requirements. If the permittee discharges sludge/septage to another treatment facility for further treatment, the receiving facility must be in compliance with the above-cited CWA 405(d) requirements. Since the State of California, hence the State and Regional Boards, has not been delegated the authority by the USEPA to implement the sludge program, enforcement of sludge requirements of CFR Part 503 is under USEPA's jurisdiction. Once sludge leaves a facility, it is subject to all applicable local, state and federal laws and regulations.
2. All collected screenings, sludges, and other solids removed from liquid wastes must be disposed of in a municipal solid waste landfill, reused by land application, or disposed of in a sludge-only landfill accordance with 40 CFR Parts 503 and 258, and Title 27 CCR, or discharged to another treatment facility that uses one of these use or disposal methods. If the discharger desires to dispose of solids or sludge by a different method, a request for permit modification must be submitted to the USEPA and this Regional Board 180 days prior to the initiation of the alternative disposal.
3. Solids and sludge storage shall not create a nuisance, such as objectionable odors or flies, and shall not result in groundwater contamination.

E. STANDARD PROVISIONS**1. DUTY TO COMPLY**

The discharger must comply with all conditions of this Order. Any noncompliance with this Order constitutes a violation of the California Water Code and is grounds for (a) enforcement action; (b) termination, revocation and reissuance, or modification of this Order; or (c) denial of a report of waste discharge in application for new or revised waste discharge requirements.

2. ENTRY AND INSPECTION

The discharger shall allow the Regional Board, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to do the following:

- a. Enter upon the discharger's premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this Order,
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Order,
- c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this Order, and
- d. Sample or monitor, at reasonable times for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

3. CIVIL MONETARY REMEDIES

The California Water Code provides that any person who intentionally or negligently violates any waste discharge requirements issued, reissued, or amended by this Regional Board shall be liable civilly in accordance with California Water Code section 13350 (d), (e), or (f).

4. PENALTIES FOR INVESTIGATION, MONITORING OR INSPECTION VIOLATIONS

The California Water Code provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or falsifying any information provided in the monitoring reports is guilty of a misdemeanor and is subject to a civil liability in accordance with CWC Section 13268.

5. ENDANGERMENT OF HEALTH AND ENVIRONMENT

The discharger shall report any noncompliance that may endanger health or the environment. Any such information shall be provided orally to the Executive Officer within 24 hours from the time the discharger becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the discharger becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours. The following occurrence(s) must be reported to the Executive Officer within 24 hours:

- a. Any bypass from any portion of the treatment facility. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility to other than a sewer system.
- b. Any treatment facility upset that causes the performance requirements of this Order to be exceeded. These incidents shall also be reported orally to the State DHS and County DEH within 24-hours of the incident.

6. CORRECTIVE ACTION

The discharger shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Order, including such accelerated or additional monitoring as may be necessary to determine the nature and impact of the noncompliance.

7. TREATMENT FAILURE

In an enforcement action, it shall not be a defense for the discharger that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the discharger shall, to the extent necessary to maintain compliance with this Order, control production or all discharges, or both, until the facility is restored or an alternative method of treatment is provided. This provision applies for example, when the primary source of power of the treatment facility is failed, reduced, or lost.

8. HAZARDOUS RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, shall as soon as (a) that person has knowledge of the discharge, (b)

notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Director of Environmental Health Services, County of San Diego in accordance with California Health and Safety Code section 5411.5 and the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of section 13271 of the Water Code unless the discharger is in violation of a prohibition in the applicable Water Quality Control Plan.

9. PETROLEUM RELEASES

Except for a discharge which is in compliance with these waste discharge requirements, any person who without regard to intent or negligence, causes or permits any oil or petroleum product to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) such person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the Office of Emergency Services of the discharge in accordance with the spill reporting provision of the State oil spill contingency plan adopted pursuant to Article 3.5 (commencing with section 8574.1) of Chapter 7 of Division 1 of Title 2 of the Government Code. This requirement does not require reporting of any discharge of less than 42 gallons unless the discharge is also required to be reported pursuant to Section 311 of the Clean Water Act or the discharge is in violation of a prohibition in the applicable Water Quality Control Plan.

10. PERMIT REPOSITORY

A copy of this Order shall be maintained at the discharger's facility and shall be available to operating personnel at all times.

11. RETENTION OF RECORDS

The discharger shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.

12. GENERAL REPORTING REQUIREMENT

The discharger shall furnish to the Executive Officer of this Regional Board, within a reasonable time, any information which the Executive Officer may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The discharger shall also furnish to the Executive Officer, upon request, copies of records required to be kept by this Order.

13. PERMIT REVISION

This Order may be modified, revoked and reissued, or terminated for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this Order.
- b. Obtaining this Order by misrepresentation or failure to disclose fully all relevant facts.
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge.

The filing of a request by the discharger for the modification, revocation and reissuance, or termination of this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

14. CHANGE IN DISCHARGE

The discharger shall file a new Report of Waste Discharge at least 120 days prior to the following:

- a. Addition of a major industrial waste discharge to a discharge of essentially domestic sewage, or the addition of a new process or product by an industrial facility resulting in a change in the character of the wastes.
- b. Significant change in the treatment or disposal method (e.g., change in the method of treatment which would significantly alter the nature of the waste).
- c. Change in the disposal area from that described in the findings of this Order.
- d. Increase in flow beyond that specified in this Order.
- e. Other circumstances that result in a material change in character, amount, or location of the waste discharge.
- f. Any planned change in the regulated facility or activity that may result in noncompliance with this Order.

15. CHANGE IN OWNERSHIP

This Order is not transferable to any person except after notice to the Executive Officer. The discharger shall submit this notice in writing by submitting a Change

of Ownership form (Attachment A) at least 30 days in advance of any proposed transfer. The notice includes a written agreement between the existing and new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement includes an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new Recycled Water Agency is liable from the transfer date on. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the discharger and incorporate such other requirements as may be necessary under the California Water Code.

16. INCOMPLETE REPORTS

Where the discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, it shall promptly submit such facts or information.

17. REPORT DECLARATION

All applications, reports, or information submitted to the Executive Officer shall be signed and certified as follows:

- a. The Report of Waste Discharge and Change of Ownership shall be signed as follows:
 1. For a corporation - by a principal Executive Officer of at least the level of Vice-President.
 2. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.
 3. For a municipality, state, federal or other public agency - by either a principal Executive Officer or ranking elected official.
- b. All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if all of the following are true:
 1. The authorization is made in writing by a person described in paragraph (a) of this provision,
 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, and
 3. The written authorization is submitted to the Executive Officer.

- c. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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."

18. REGIONAL BOARD ADDRESS

The discharger shall submit reports required under this Order or other information required by the Executive Officer to the following address:

Southern Core Regulatory Unit
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, California 92123

F. SPECIAL PROVISIONS

- 1. Sufficient land area shall be reserved for possible future 100 percent replacement of the disposal areas.
- 2. Adequate measures shall be taken to assure that unauthorized persons are effectively excluded from contact with the wastewater including tertiary treated wastewater.
- 3. Adequate measures shall be taken to assure that flood or surface drainage waters do not erode or otherwise render portions of the discharge facilities inoperable.

G. NOTIFICATIONS

1. VESTED RIGHTS

This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, nor protect the discharger from liability under federal, state or local laws, nor create a vested right for the

discharger to continue the waste discharge.

2. U.S. EPA REVIEW

These requirements have been reviewed by the United States Environmental Protection Agency, Ground Water Office. However, these requirements are not issued pursuant to section 402 of the Clean Water Act.

3. SEVERABILITY

The provisions of this Order are severable, and if any provision of this Order, or the application of any provision of this Order to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Order, shall not be affected thereby.

4. EFFECTIVE DATE

This Order becomes effective on the date of adoption by the San Diego Regional Board.

I, John H. Robertus, 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, San Diego Region, on June 13, 2007.



JOHN H. ROBERTUS
Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION**

MONITORING AND REPORTING PROGRAM NO. R9-2007-0046
FOR OAK TREE RANCH, INC.
OAK TREE RANCH PRIVATE RESIDENTIAL COMMUNITY
WASTEWATER TREATMENT AND DISPOSAL FACILITY
NEAR RAMONA
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Monitoring and Reporting Program (M&RP) and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water or substance. Monitoring points shall not be changed without notification to and the approval of the Executive Officer.
2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than +10 percent from true discharge rates throughout the range of expected discharge volumes.
3. Monitoring must be conducted according to United States Environmental Protection Agency (USEPA) test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this M&RP.
4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer.
5. Monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.

6. If the discharger monitors any pollutants more frequently than required by this M&RP, using test procedures approved under 40 CFR, Part 136, or as specified in this M&RP, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.
7. The discharger shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by this M&RP, and records of all data used to complete the application for this M&RP. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report or application. This period may be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board Executive Officer.
8. Records of monitoring information shall include the following:
 - a. The date, exact place, and time of sampling or measurements,
 - b. The individual(s) who performed the sampling or measurements,
 - c. The date(s) analyses were performed,
 - d. The individual(s) who performed the analyses,
 - e. The analytical techniques or method used, and
 - f. The results of such analyses.
9. All monitoring instruments and devices that are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
10. The discharger shall report all instances of noncompliance not reported under Standard Provision E.5 of Order No. R9-2007-0046 at the time monitoring reports are submitted. The reports shall contain the information described in Provision E.5.
11. The monitoring reports shall be signed by an authorized person as required by Standard Provision E.21.
12. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.

B. DISCHARGE MONITORING

1. Samples of the effluent discharged from the Oak Tree Ranch Wastewater Treatment and Disposal Facility shall be collected prior to discharge to the subsurface disposal system

2. The Discharger is responsible for monitoring and reporting in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY ²	REPORTING FREQUENCY
Flowrate ¹	Gallons/Day	Continuous	Daily	Quarterly
Biochemical Oxygen Demand (BOD ₅ @ 20°C)	mg/L	Grab	Quarterly	Quarterly
Total Suspended Solids	mg/L	Grab	Quarterly	Quarterly
pH	Units	Grab	Quarterly	Quarterly
Total Dissolved Solids	mg/L	Grab	Quarterly	Quarterly
Chloride	mg/L	Grab	Quarterly	Quarterly
Sulfate	mg/L	Grab	Quarterly	Quarterly
Nitrate (as N)	mg/L	Grab	Quarterly	Quarterly
Nitrite (as N)	mg/L	Grab	Quarterly	Quarterly
Kjeldahl Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly
Total Nitrogen (as N)	mg/L	Grab	Quarterly	Quarterly
Iron	mg/l	Grab	Quarterly	Quarterly
Manganese	mg/l	Grab	Quarterly	Quarterly
MBAS	mg/l	Grab	Quarterly	Quarterly
Boron	mg/l	Grab	Quarterly	Quarterly

Notes: mg/L = milligrams per liter

- 1 Report both the average daily and total flowrate for the reporting period for the discharge of effluent to the disposal system
 - 2 The discharger shall increase the sampling frequency from quarterly to monthly for any noted constituent that exceeds the limit specified by Discharge Specifications Requirements of Order No. R9-2007-0046. The increased frequency of monitoring shall continue until the discharger achieves compliance with the limitations for three consecutive periods. After compliance is achieved, the discharger shall resume sampling at the specified frequency. Monthly is defined as a calendar month. Quarterly is defined as three consecutive calendar months beginning at the first of the year.
3. Each reporting period, the discharger shall review monitoring results for compliance with Order No. R9-2007-0046 and submit a statement of compliance as part of the Monitoring and Reporting Program. The statement of compliance shall identify all violations of Discharge Specifications of Order No. R9-2007-0046.

4. The discharger shall establish a compliance plan that addresses continuous³ effluent violation(s). The compliance plan shall identify the corrective actions required to achieve compliance with this order within 6 months of identification of a continuous effluent violation(s). The compliance plan shall be implemented immediately after the Discharger identifies a continuous effluent violation(s).

If it is anticipated compliance cannot be achieved within 6 months or if compliance is not achieved within 6 months, the Discharger shall submit a technical report identifying the steps that have been and will be taken to achieve compliance as well as a time schedule identifying when compliance will be achieved. The technical report shall be submitted to the Regional Board no later than 30 days after the Discharger becomes aware that the compliance schedule will not be met.

C. GROUNDWATER MONITORING

1. Within 180 days of the adoption of this Order by the Regional Board, the discharger shall submit to the Regional Board for review and approval a groundwater monitoring plan to monitor the groundwater in the vicinity of the disposal area to determine if the discharge of treated waste is affecting groundwater quality and to verify compliance with the Basin Plan water quality objectives. The groundwater monitoring plan shall be developed in accordance with M&R Provisions C.2 and C.3 below and certified by a geologist or hydrogeologist registered with the State of California. Groundwater monitoring and reporting in accordance with the groundwater monitoring plan shall begin no later October 2007.
2. Monitoring wells shall be constructed to allow collection of groundwater samples for water quality analysis from the top five feet of the first groundwater encountered, to a depth of at least ten feet below the water table at the time of well boring, with an appropriate screen interval, and located at a minimum of three locations that meet the following criteria:
 - a. A groundwater monitoring well located between 50 feet and 500 feet upgradient from the subsurface disposal field to provide background groundwater quality information prior to any possible impact from wastewater discharges.
 - b. Two representative groundwater monitoring wells located between 50 feet and 500 feet downgradient from the subsurface disposal field to provide water quality information in groundwater that may be impacted by wastewater discharges.
 - c. The groundwater monitoring wells shall also be located to allow the determination of groundwater flow direction.

³ For the purpose of this Order a continuous violation is one that exceeds the effluent limitations specified in Section B of Order No. R9-2007-0046 for two consecutive reporting periods for the same constituent.

3. The discharger is responsible for the monitoring and reporting of the groundwater from monitoring wells in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY ⁴	REPORTING FREQUENCY
pH	pH units	Grab	Semiannual	Semiannual
Nitrate (as NO ₃)	mg/L	Grab	Semiannual	Semiannual
Nitrite (as NO ₂)	mg/L	Grab	Semiannual	Semiannual
Kjeldahl Nitrogen (as N)	mg/L	Grab	Semiannual	Semiannual
Total Nitrogen (as N)	mg/L	Grab	Semiannual	Semiannual
Total Dissolved Solids	mg/L	Grab	Semiannual	Semiannual
Chloride	mg/l	Grab	Annually	Annually
Sulfate	mg/l	Grab	Annually	Annually
Iron	mg/l	Grab	Annually	Annually
Manganese	mg/l	Grab	Annually	Annually
MBAS	mg/l	Grab	Annually	Annually
Boron	mg/l	Grab	Annually	Annually

Notes: mg/L = milligrams per liter

4. Semiannual sampling shall be conducted in March and September of each year.

D. SEWAGE SOLIDS AND BIOSOLIDS

1. A record of the type, quantity, manner, and location of disposal of all solids removed in the course of sewage treatment shall be maintained by the discharger and be submitted to the Regional Board annually.
2. A biosolids certification, certifying that the disposal of biosolids complies with existing Federal and State laws and regulations, including permitting requirements and technical standards included in 40 CFR 503 shall be submitted annually.

E. OPERATOR STAFFING

The discharger shall include with the quarterly monitoring report a list of all wastewater treatment operator(s) employed or contracted who performed operation and maintenance on the system during the quarter along with their qualifications and training.

F. ANNUAL REPORT

The Discharger shall submit an annual report that contains both tabular and graphical summaries of monitoring data obtained during the previous year. The annual report shall also include a log of clippings removed throughout the year, disposal method, and calculated % uptake and removal by vegetation.

G. REPORT SCHEDULE

Monitoring reports shall be submitted to the Executive Officer in accordance with the following schedule:

Reporting Frequency	Report Period	Report Due
Quarterly	January – March April – June July – September October - December	30 days after the last day of the reporting period
Semiannual	January – June July-December	30 days after the last day of the reporting period
Annual	January-December	60 days after the last day of the reporting period

Monitoring reports shall be submitted to:

ATTN: Southern Core Regulatory Unit
 California Regional Water Quality Control Board
 San Diego Region
 9174 Sky Park Court, Suite 100
 San Diego, CA 92123

Ordered by: 
JOHN H. ROBERTUS
 Executive Officer
 June 13, 2007

SENDER: COMPLETE THIS SECTION

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

2
R
M. Bert Coster
2239 Black Canyon Rd #80
Ramona, CA 92065

2. A
(M)

2. Article Number
(Transfer from service label)

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PS Form 3811, February 2004

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COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Address

B. Received by (Printed Name) BERT CASTER
 C. Date of Delivery 8/20/06

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 If YES, enter delivery address below:

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