

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

**ORDER NO. R9-2006-0063**

**WASTE DISCHARGE REQUIREMENTS  
FOR THE  
CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DESCANSO MAINTENANCE STATION  
SAN DIEGO COUNTY**

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

1. On March 21, 2006, the California Department of Transportation (hereinafter Discharger or Caltrans) submitted to this Regional Board an incomplete Report of Waste Discharge (RoWD) in application for waste discharge requirements for the subsurface discharge of existing domestic wastewater and proposed vehicle washrack wastewater at the Descanso Maintenance Station (hereinafter Facility). The discharger subsequently submitted additional information which completed the RoWD.
2. The Facility is located at 24171 Japatul Valley Road near the town of Descanso in south San Diego County in the lower half of the northeast portion of section 36 of Township 15 South, Range 3 East, San Bernardino Base Meridian. The Facility was constructed in 1971 with approximately 3.7 useable acres. The Facility consists of a warehouse, several equipment and storage buildings, a vehicle washrack, an above ground combination diesel and unleaded tank, a potable water well system with a 10,000 gallon water tank and 1,000 gallon pressure tank, a conventional septic tank/leachfield system, and two propane tank systems. The Facility is open year round; activities that take place at the maintenance yard are truck washing, vehicle storage, and occasional vehicle repair. A crew of 8 employees are responsible for maintaining miles of highways on Interstate 8 and State Route 79 including fence/guardrail repair and sign repair. Approximately 160 gallons per day (GPD) of domestic wastewater from the Facility's restrooms and sinks are discharged to the septic tank/leachfield system located at least 100 ft downgradient from the potable water well.
3. The Facility's vehicle washrack is used for vehicle exterior cleaning, with only occasional use of detergents, and does not include steam cleaning nor undercarriage cleaning. One to three road maintenance vehicles per week are washed producing approximately 250 gallons per week of washrack wastewater. The washrack wastewater is treated via a sediment interceptor and oil/water separator and, until recently, a water treatment recycle system. The treated

washrack wastewater was reused in vehicle cleaning. Because the water treatment recycle system had become unreliable and dissolved solids accumulated in the treated water, Caltrans sought to eliminate reuse of the washrack wastewater and proposed instead to discharge the washrack wastewater after the oil/water separator to the Facility's septic tank and leachfield together with the existing domestic wastewater discharge. The total discharge to the septic tank/leach field system would be 210 gallons per day (160 GPD domestic wastewater and 50 GPD washrack wastewater based on 250 gallons per week discharged over five work days). In August 2005, Caltrans contacted USEPA, the Regional Board and the County of San Diego Department of Environmental Health (SDDEH) to obtain the required permits and meet other regulatory requirements for the proposed discharge of washrack wastewater.

4. The Facility's existing wastewater disposal system consists of a 2,700-gallon septic tank and 472 feet of disposal piping in the leachfield. Percolation tests conducted in 1991 indicated that the soil in the leachfield had a percolation capacity of 66 minutes per inch which translates to an allowable wastewater loading rate of 0.2 gallons per square foot per day according to US EPA guidelines. Allowing only for percolation from the bottom area of the leachfield trenches and the USEPA recommended loading rate, at least 527 feet of disposal piping is necessary to dispose of the combined 210 gallons per day of domestic and washrack wastewater generated at the Facility. SDDEH uses an alternate formula for calculating allowable wastewater loading rates based on percolation rates. Based on the alternate formula, a loading rate of 0.6 gallons per square foot per day is calculated for the Facility's leachfield, and this indicates that 175 feet of disposal piping is required for disposal of wastewater at the Facility (assuming only percolation from the trench bottom area). The existing length of disposal piping available is within the range recommended by USEPA and County of San Diego DEH, and the existing disposal piping is expected to be adequate for the disposal of 210 gallons per day of domestic and washrack wastewater generated at the Facility. Additionally, Caltrans indicated that there is adequate available reserve space at the Facility to install additional disposal piping or to replace the leachfield in the future if necessary.
5. Septic tank effluent from domestic wastewater typically contains high concentrations of total dissolved solids, chlorides, phosphates, total nitrogen, ammonia, and pathogens. Furthermore, most, if not all, of the total nitrogen and ammonia content of septic tank effluent is converted to nitrates once discharged to subsurface disposal systems. Consequently, subsurface disposal systems must be designed, installed, operated, maintained, and monitored so as to continually prevent pollution or contamination of the waters of the State and the creation of nuisance. This includes ensuring that all the water quality objectives in the groundwater underlying the site are maintained.
6. In October 2005, Caltrans provided the Regional Board with effluent quality data for vehicle washrack wastewater from another Caltrans vehicle washrack facility that is similar to the one at the Facility. While the effluent had non-detectable levels for

most of approximately 100 inorganic and organic constituents that analyses were conducted for, the effluent data indicated several constituents were present in the washrack wastewater at detectable levels below drinking water standards, and two organic pollutants were present at levels above drinking water maximum contaminant levels. It is expected that the washrack wastewater from the Facility will have similar effluent characteristic, and it will be necessary to implement best management practices and treatment to ensure that pollutants are not introduced to groundwater when the Facility's washrack wastewater is discharged subsurface. Periodic monitoring of the washrack wastewater for inorganic and organic pollutants is necessary to ensure protection of groundwater water quality and beneficial uses.

7. An onsite wastewater treatment system discharge at the Facility is subject to the federal Underground Injection Control (UIC) regulations per the federal Safe Drinking Water Act. Any septic system with the capacity to serve 20 or more persons per day is or discharges of wastewater not consisting entirely of domestic wastewater are classified as an injection well under these regulations. As such, Caltrans is required to submit inventory information regarding the discharge, the disposal system, and legal responsibility for the control of the discharge to the USEPA.
8. The USEPA's UIC Program prohibits the discharge of automotive wastes to shallow injection wells such as leachfields. After submittal of UIC inventory information by Caltrans, USEPA Region IX determined that the disposal of washrack wastewater can be classified as a 5W20 industrial drainage well and not prohibited under UIC regulations, provided that the Facility complies with the Regional Board's regulations and monitoring of the washrack wastes is conducted. It is necessary to ensure that inorganic and organic chemicals associated with vehicles are not being discharged in the washrack wastewater to the leachfield in order to protect beneficial uses of the groundwater in the Barret Lake HA (911.30).
9. The well boring log for the Facility's water supply well indicated that first groundwater was encountered at 8 foot depth from the ground surface and that the geology consisted of decomposed granite in the first 40 foot strata. The State Water Board's Geotracker database contained information entered by SDDEH in December 2005 that indicated groundwater level at 18 foot depth from the ground surface at the Facility.
10. In accordance with Section 2200, Title 23 of the California Code of Regulation, the threat to water quality and complexity of the treated wastewater discharge from the septic system is determined to be category 2C.
11. 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 for waters of the State within the San Diego Region.

12. In accordance with the Basin Plan, the Regional Board implements a waiver program for discharges of domestic wastewater from conventional septic tank/leachfield systems which defers regulation of such discharges to the appropriate county health officer. The discharge from the Facility does not qualify for the waiver program because the Discharger is an agency of the State of California and the discharge from the Facility will include non-domestic wastewater.
13. All existing and proposed wastewater discharges from the Facility are located within the Barret Lake Hydrologic Area (HA 911.30) of the Tijuana Hydrologic Unit (HU 911.00). The Basin Plan established municipal and domestic supply and agricultural supply as existing beneficial uses of groundwater in HA 911.30
14. 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 (MCL) specified in the California Code of Regulations, Title 22, Table 64431-A of Section 64431 (Primary MCL, Inorganic Chemicals), Table 64431-B of Section 64431 (Primary MCL, Fluoride), Table 64444-A of Section 64444 (Primary MCL, Organic Chemicals), and 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.
15. The Basin Plan establishes the following groundwater water quality objectives for Barret Lake HA (911.30):

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 <sub>4</sub>	%Na	NO <sub>3</sub> as N	Fe	Mn	M B A S	B	O D O R	TURB (NTU)	COLOR (UNITS)	F	
911.30 Barrett Lake	500	250	250	60	10	0.3	0.05	0.5	1.0	None	5	15	1	

16. In order to maintain the groundwater drinking water standard for nitrates of 10 mg/L, the Basin Plan recommends restricting septic system densities to a minimum lot size per septic tank/leachfield system discharge based on a discharge of 280 gallons per day and local groundwater recharge rates from precipitation. Based on National Weather Service data for nearby Campo, the Descanso area receives approximately 16 inches of precipitation in a normal year. The 3.7 acres available at the Facility is approximately 75 percent impervious and does not meet the Basin Plan lot size recommendations. However, this Order requires that groundwater meet a nitrogen requirement of 10 mg/L and includes groundwater monitoring.

17. 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.
18. In establishing the discharge specifications contained herein the Regional Board considered water quality data supplied in the RWD and the assimilative capacity of the soil and groundwater to ensure that groundwater would not exceed Basin Plan water quality objectives beyond the limits of the disposal area property.
19. 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.
20. Caltrans determined that its proposed project to discharge vehicle washrack wastewater to the existing leachfields at the Facility is categorically exempt (Class 1) from the requirements of the California Environmental Quality Act (CEQA) as provided by Section 15301, and in compliance with Section 15300.2, of California Code of Regulations Title 14.
21. The issuance of this Order involves the permitting of existing sewerage facilities. As such, this project is categorically exempt from the requirements of the California Environmental Quality Act (CEQA) as provided by Section 15301, and in compliance with Section 15300.2, of California Code of Regulations Title 14.
22. This Regional Board has considered all water resource related environmental factors associated with the proposed discharge of waste from the proposed septic system.
23. This Regional Board has notified the discharger and all known interested parties of the intent to prescribe waste discharge requirements for the existing and proposed discharge.
24. This Regional Board in a public meeting has heard and considered all comments pertaining to the proposed discharge of waste from the septic system.

**IT IS HEREBY ORDERED THAT**, the California Department of Transportation (hereinafter Discharger or Caltrans), 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 for the discharge of wastes from the Descanso Maintenance Station septic tank and leachfield system to HA 911.30.

#### **A. PROHIBITIONS**

1. Discharges of wastes and sewage sludge and solids to lands that have not been specifically described in the Report of Waste Discharge 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 as 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. The discharge of wastes from recreational vehicle holding tanks to the surge tank, septic tank, and subsurface disposal leach field infiltration system is prohibited.
6. There shall be no discharge of sewage solids at the disposal site.
7. There shall be no ponding of discharged septic tank effluent or surface flow away from the disposal area.
8. Total effluent flow to the subsurface disposal leach field infiltration system in excess of a calendar month average of 250 gallons per day is prohibited.
9. All injection wells are prohibited from disposing of fluids in a manner that may endanger underground sources of drinking water (see 40 CFR part 144.12.).

#### **B. DISCHARGE SPECIFICATIONS**

1. The discharge to the subsurface disposal systems at the Facility shall only consist of domestic wastewater and vehicle washrack wastewater.
2. 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.

3. Effluent from the septic tank discharged to the leachfield disposal system shall not contain constituents in excess of the effluent limitations in Table 3A, or groundwater downgradient of the leachfield shall not contain constituents in excess of the performance requirements in Table 3B.

Table 3A: Effluent Limitations

CONSTITUENT	UNITS	12-MONTH AVERAGE <sup>1</sup>	DAILY MAXIMUM <sup>2</sup>
pH	pH Units	Between 6.0 and 9.0 at all times	
Total Dissolved Solids	mg/L	450.	750.
Boron	mg/L	1.0	1.5
Total Nitrogen (as N)	mg/L	12.	20.
Methylene Blue Active Substances (MBAS)	mg/L	0.45	0.75
Sulfate (SO <sub>4</sub> )	mg/L	225.	375.

<sup>1</sup> The 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.

<sup>2</sup> The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

Table 3B: Groundwater Performance Requirements<sup>1</sup>

CONSTITUENT	UNITS	12-MONTH AVERAGE <sup>2</sup>	DAILY MAXIMUM <sup>3</sup>
pH	pH Units	Between 6.0 and 9.0 at all times	
Total Dissolved Solids	mg/L	450.	750.
Boron	mg/L	1.0	1.5
Total Nitrogen (as N)	mg/L	9.	15.
Methylene Blue Active Substances (MBAS)	mg/L	0.45	0.75
Sulfate (SO <sub>4</sub> )	mg/L	225.	375.

<sup>1</sup> Groundwater monitoring is specified in the Monitoring and Reporting Program.

<sup>2</sup> The 12-month average performance requirement shall apply to the arithmetic mean of the results of all samples collected from representative downgradient groundwater monitoring wells during any 12 consecutive calendar month period.

<sup>3</sup> The daily maximum performance requirement shall apply to the arithmetic mean of the results of all samples collected from representative downgradient groundwater monitoring wells during any one-calendar day period.



4. Vehicle washrack wastewater samples collected after the oil/water separator and prior to the septic tank shall not contain constituents in excess of the following effluent limitations<sup>1</sup>:

CONSTITUENT	Units	DAILY MAXIMUM <sup>2</sup>
Di (2-ethylhexyl) phthalate	mg/L	0.004
Tetrachloroethylene	mg/L	0.005

- <sup>1</sup> These effluent limitations expire after conducting the monitoring required under Monitoring and Reporting Program Provision B.2 if the washrack wastewater does not exceed the effluent limitations.
- <sup>2</sup> The daily maximum effluent limitation shall apply to the results of a single composite or grab sample.

## C. FACILITY DESIGN AND OPERATION SPECIFICATIONS

### 1. CERTIFICATION REPORT

Any new or additional wastewater treatment and disposal facilities shall be completely constructed and operable prior to the initiation of the discharge or expansion of discharge. 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 prior to commencement of the discharge. The certification report shall contain a requirement-by-requirement analysis based on acceptable engineering practices, of how the process and physical designs of the facilities will ensure compliance with the waste discharge requirements. The certification report shall also contain an operation and maintenance manual for the wastewater treatment facilities. The design engineer shall affix their signature and engineering license number to the certification report and should submit it prior to construction of the facilities. Prior to the initiation of the discharge, the following requirements shall be met:

- (a) The certification report is received and approved by the Regional Board Executive Officer,
- (b) The Regional Board Executive Officer 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 Executive Officer notifies the discharger by letter that discharge can be initiated.

## 2. 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.

## 3. 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.

## 4. 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.

## 5. 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.

## **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, 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. MONITORING AND REPORTING**

The discharger shall comply with the attached Monitoring and Reporting Program to Order No. R9-2006-0063, and future revisions thereto as specified

by the Executive Officer. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program.

4. 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).

5. 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.

6. 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 limitations under Discharge Specification Provisions B. 3-5 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.

## 7. 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.

## 8. 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.

## 9. 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.

## 10. 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.

#### 11. 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.

#### 12. 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.

#### 13. 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.

#### 14. 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.

#### 15. 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.

#### 16. 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 at least 30 days in advance of any proposed transfer. The notice must include 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 shall include 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.

#### 17. 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.

#### 18. 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 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."



## 19. 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 leach field.
2. Adequate measures shall be taken to assure that unauthorized persons are effectively excluded from contact with the 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.

5. CORRESPONDENCE

To ensure that correspondence and reports submitted in compliance with this Order are acknowledged, the following code number must be included in the heading or subject line portion of all correspondence and reports submitted to the Regional Board: "SCR: 01-01431".

*I, John H. Robertus, Executive Officer, do hereby certify the forgoing is a full, true, and correct copy of Order No. R9-2006-0063 adopted by the California Regional Water Quality Control Board, San Diego Region, on June 14, 2006.*

  
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JOHN H. ROBERTUS  
Executive Officer

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

**MONITORING AND REPORTING PROGRAM  
FOR ORDER NO. R9-2006-0063  
FOR  
CALIFORNIA DEPARTMENT OF TRANSPORTATION  
DESCANSO MAINTENANCE STATION  
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 Order 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 are 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  $\pm 10$  percent from true discharge rates throughout the range of expected discharge volumes.
3. Monitoring must be conducted according to United States Environmental Protection Agency 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 Order.
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. For a given constituent and sample, analysis shall be conducted using an analytical method with a quantitation level below the associated effluent limitation, performance requirement or maximum contaminant level, or an achievable quantitation level closest to the effluent limitation, performance requirement or maximum contaminant level, whichever is lower.
6. Monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.

7. If the Discharger monitors any pollutants more frequently than required by this order, using test procedures approved under 40 CFR, Part 136, or as specified in this Order, 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.
8. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, 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.
9. Records of monitoring information shall include:
  - (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.
10. All monitoring instruments and devices which are used by the Discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
11. The Discharger shall report all instances of noncompliance not reported under Standard Provision E.5 of this Order at the time monitoring reports are submitted. The reports shall contain the information listed in Standard Provision E.5.
12. Each reporting period, the discharger shall review monitoring results for compliance with Order No. R9-2006-0063 and submit a statement of compliance as part of this Monitoring and Reporting Program. The statement of compliance shall identify and report all violations of Discharge Specifications of Order No. R9-2006-0063.
13. The monitoring reports shall be signed by an authorized person as required by Standard Provision E.18.
14. 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. Septic tank effluent, collected prior to discharge to the subsurface disposal leachfield infiltration system, shall be monitored in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY <sup>2,3</sup>	REPORTING FREQUENCY <sup>2,3</sup>
Flowrate <sup>1</sup>	Gallons/Day	Measurement	December, June	Semiannually
pH	pH Units	Grab	December, June	Semiannually
Nitrate (as N)	mg/L	Grab	December, June	Semiannually
Nitrite (as N)	mg/L	Grab	December, June	Semiannually
Ammonia (as N)	mg/L	Grab	December, June	Semiannually
Kjeldahl Nitrogen (as N)	mg/L	Grab	December, June	Semiannually
Total Nitrogen (as N)	mg/L	Grab	December, June	Semiannually
Boron	mg/L	Grab	December, June	Semiannually
Total Dissolved Solids	mg/L	Grab	December, June	Semiannually
Sulfate	mg/L	Grab	December, June	Semiannually
MBAS	mg/L	Grab	December, June	Semiannually
Total Coliform	MPN	Grab	December, June	Semiannually

**Notes:mg/L = milligrams per liter**

- <sup>1</sup> The flowrate during a 24-hour period, measured at least once in December and once in June, may be determined using a flow meter or may be calculated based on reasonable assumptions adhering to the flow monitoring requirement in M&RP Provision A.2. If only one measurement is made in a month, that measurement will be considered the calendar monthly average.
- <sup>2</sup> Samples of septic tank effluent shall be collected immediately prior to its introduction to the subsurface disposal leach field infiltration system.
- <sup>3</sup> December and June means at least once during each of those months. Semiannually is defined as once during a six consecutive calendar month period beginning January 1 or July 1.

2. Washrack wastewater, collected after the oil/water separator and prior to the septic tank, shall be monitored in December 2006 and June 2007 in accordance with the following criteria:

CONSTITUENT <sup>1</sup>	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY <sup>1,2</sup>	REPORTING FREQUENCY <sup>1,2</sup>
Total Dissolved Solids	mg/L	Grab	December, June	Semiannually
Total Nitrogen	mg/L	Grab	December, June	Semiannually
MBAS	mg/L	Grab	December, June	Semiannually
Sulfate	mg/L	Grab	December, June	Semiannually
Boron	mg/L	Grab	December, June	Semiannually
Aluminum	mg/L	Grab	December, June	Semiannually
Arsenic	mg/L	Grab	December, June	Semiannually
Antimony	mg/L	Grab	December, June	Semiannually
Barium	mg/L	Grab	December, June	Semiannually
Beryllium	mg/L	Grab	December, June	Semiannually
Cadmium	mg/L	Grab	December, June	Semiannually
Chromium	mg/L	Grab	December, June	Semiannually
Copper	mg/L	Grab	December, June	Semiannually
Cyanide	mg/L	Grab	December, June	Semiannually
Mercury	mg/L	Grab	December, June	Semiannually
Nickel	mg/L	Grab	December, June	Semiannually
Selenium	mg/L	Grab	December, June	Semiannually
Thallium	mg/L	Grab	December, June	Semiannually
Asbestos	Million fibers per liter	Grab	December, June	Semiannually
Benzene	mg/L	Grab	December, June	Semiannually
Carbon Tetrachloride	mg/L	Grab	December, June	Semiannually
1,2-Dichlorobenzene	mg/L	Grab	December, June	Semiannually
1,4-Dichlorobenzene	mg/L	Grab	December, June	Semiannually
1,1-Dichloroethane	mg/L	Grab	December, June	Semiannually
1,2-Dichloroethane	mg/L	Grab	December, June	Semiannually
1,1-Dichloroethylene	mg/L	Grab	December, June	Semiannually
cis-1,2-Dichloro-ethylene	mg/L	Grab	December, June	Semiannually
trans-1,2-Dichloro-	mg/L	Grab	December, June	Semiannually

CONSTITUENT <sup>1</sup>	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY <sup>1,2</sup>	REPORTING FREQUENCY <sup>1,2</sup>
ethylene				
Dichloromethane	mg/L	Grab	December, June	Semiannually
1,2-Dichloropropane	mg/L	Grab	December, June	Semiannually
1,3-Dichloropropene	mg/L	Grab	December, June	Semiannually
Ethylbenzene	mg/L	Grab	December, June	Semiannually
Monochlorobenzene	mg/L	Grab	December, June	Semiannually
Methyl tert-butyl ether (MTBE)	mg/L	Grab	December, June	Semiannually
Styrene	mg/L	Grab	December, June	Semiannually
1,1,2,2-Tetrachloroethane	mg/L	Grab	December, June	Semiannually
Tetrachloroethylene	mg/L	Grab	December, June	Semiannually
Toluene	mg/L	Grab	December, June	Semiannually
1,2,4-Trichloro-benzene	mg/L	Grab	December, June	Semiannually
1,1,1-Trichloroethane	mg/L	Grab	December, June	Semiannually
1,1,2-Trichloroethane	mg/L	Grab	December, June	Semiannually
Trichloroethylene	mg/L	Grab	December, June	Semiannually
Trichlorofluoro-methane	mg/L	Grab	December, June	Semiannually
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/L	Grab	December, June	Semiannually
Vinyl Chloride	mg/L	Grab	December, June	Semiannually
Xylenes	mg/L	Grab	December, June	Semiannually
Alachlor	mg/L	Grab	December, June	Semiannually
Atrazine	mg/L	Grab	December, June	Semiannually
Bentazon	mg/L	Grab	December, June	Semiannually
Benzo(a)pyrene	mg/L	Grab	December, June	Semiannually
Carbofuran	mg/L	Grab	December, June	Semiannually
Chlordane	mg/L	Grab	December, June	Semiannually
2,4-D	mg/L	Grab	December, June	Semiannually
Dalapon	mg/L	Grab	December, June	Semiannually
1,2-Dibromon-3-chloropropane	mg/L	Grab	December, June	Semiannually
Di (2-ethylhexyl) adipate	mg/L	Grab	December, June	Semiannually

CONSTITUENT <sup>1</sup>	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY <sup>1,2</sup>	REPORTING FREQUENCY <sup>1,2</sup>
Di (2-ethylhexyl) phthalate	mg/L	Grab	December, June	Semiannually
Dinoseb	mg/L	Grab	December, June	Semiannually
Diquat	mg/L	Grab	December, June	Semiannually
Endothall	mg/L	Grab	December, June	Semiannually
Endrin	mg/L	Grab	December, June	Semiannually
Ethylene Dibromide	mg/L	Grab	December, June	Semiannually
Glyphosate	mg/L	Grab	December, June	Semiannually
Heptachlor	mg/L	Grab	December, June	Semiannually
Heptachlor Epoxide	mg/L	Grab	December, June	Semiannually
Hexachlorobenzene	mg/L	Grab	December, June	Semiannually
Hexachlorocyclo penta-diene	mg/L	Grab	December, June	Semiannually
Lindane	mg/L	Grab	December, June	Semiannually
Methoxychlor	mg/L	Grab	December, June	Semiannually
Molinate	mg/L	Grab	December, June	Semiannually
Oxamyl	mg/L	Grab	December, June	Semiannually
Pentachlorophenol	mg/L	Grab	December, June	Semiannually
Picloram	mg/L	Grab	December, June	Semiannually
Polychlorinated Biphenyls	mg/L	Grab	December, June	Semiannually
Simazine	mg/L	Grab	December, June	Semiannually
Thiobencarb	mg/L	Grab	December, June	Semiannually
Toxaphene	mg/L	Grab	December, June	Semiannually
2,3,7,8-TCDD (Dioxin)	mg/L	Grab	December, June	Semiannually
2,3,5-TP Silvex	mg/L	Grab	December, June	Semiannually

<sup>1</sup> Constituents detected above analytical quantitation levels after conducting the June 2007 monitoring shall continue to be monitored triennially in June of the appropriate year and reported with the corresponding semiannual monitoring report .

<sup>2</sup> December and June means at least once during each of those months. Semiannually is defined as once during a six consecutive calendar month period beginning January 1 or July 1.



**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 leachfield to determine if the discharge of treated wastewater is affecting groundwater water quality and to verify compliance with the Basin Plan water quality objectives. The groundwater monitoring plan shall be developed in accordance with M&RP 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 than June 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 10 feet below the water table at the time of well boring, with an appropriate screened 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 leachfield to provide background groundwater water 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 leachfield 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. Groundwater samples shall be collected on the same day as the septic tank effluent samples required under Provision B.1 of this M&RP from all monitoring wells as approved by the Regional Board in accordance with M&RP Provisions C.1 and C.2. The discharger shall monitor the groundwater from the monitoring wells in accordance with the following criteria:

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY <sup>1</sup>	REPORTING FREQUENCY <sup>1</sup>
pH	pH Units	Grab	December, June	Semiannually
Boron	mg/L	Grab	December, June	Semiannually
Nitrate (as N)	mg/L	Grab	December, June	Semiannually
Nitrite (as N)	mg/L	Grab	December, June	Semiannually
Kjeldahl Nitrogen (as N)	mg/L	Grab	December, June	Semiannually

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY <sup>1</sup>	REPORTING FREQUENCY <sup>1</sup>
Total Nitrogen (as N)	mg/L	Grab	December, June	Semiannually
Total Dissolved Solids	mg/L	Grab	December, June	Semiannually
Sulfate	mg/L	Grab	December, June	Semiannually
MBAS	mg/L	Grab	December, June	Semiannually
Chloride	mg/L	Grab	June	Annually
Sulfate	mg/L	Grab	June	Annually
Manganese	mg/L	Grab	June	Annually
Fluoride	mg/L	Grab	June	Annually
Iron	mg/L	Grab	June	Annually
Total and Fecal Coliform	MPN	Grab	December, June	Semiannually

**Notes:**     **mg/L = milligrams per liter**  
                  **MPN = Most Probable Number**

- <sup>1</sup> December and June means at least once during each of those months. . Semiannually is defined as once during a six consecutive calendar month period beginning January 1 or July 1. Annually is defined as once during a calendar year.

#### D. MAINTENANCE AND INSPECTION

- The discharger shall monitor the septic tanks and report the results as described below:

PARAMETER	UNIT	TYPE OF MEASUREMENT	MINIMUM INSPECTION FREQUENCY <sup>1</sup>	REPORTING FREQUENCY <sup>1</sup>
Sludge depth and scum thickness in each compartment of each septic tank	Feet	Staff Gauge	Annually	Annually
Distance between bottom of scum layer and bottom of outlet device	Inches	Staff Gauge	Annually	Annually
Distance between top of sludge layer and bottom of outlet device	Inches	Staff Gauge	Annually	Annually

- <sup>1</sup> Annually is defined as once per calendar year.

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

**E. 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.

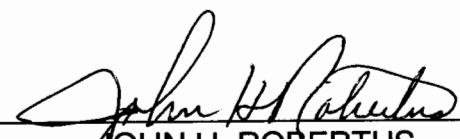
**F. REPORT SCHEDULE**

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

REPORTING FREQUENCY	REPORT PERIOD	REPORT DUE
Semiannually	January – June July – December	August 1 <sup>st</sup> February 1 <sup>st</sup>
Annually	January – December	February 1 <sup>st</sup>

**Monitoring reports shall be submitted to:**

ATTN: Southern Core Regulatory Program 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

Date: June 14, 2006