CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

TENTATIVE ORDER NO. R9-2009-0105

WASTE DISCHARGE REQUIREMENTS
FOR THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, DISTRICT 11
BUCKMAN SPRINGS SAFETY ROADSIDE REST AREA,
SAN DIEGO COUNTY

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Tentative Order No. R9-2009-0105

Monitoring and Reporting Program No. R9-2009-0105

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

1. The California Department of Transportation, District 11 (hereinafter Caltrans or Discharger) submitted a Report of Waste Discharge (RoWD) for the discharge of domestic wastewater from restrooms and recreational vehicle holding tank wastewater at the Buckman Springs Safety Roadside Rest Area (Rest Area), located on Buckman Springs Road off Highway 8, 3.3 miles east of Pine Valley, San Diego County in the Cottonwood Hydrologic Area (HA) of the Tijuana Hydrologic Unit (HU).

2. Septic tank effluent from domestic wastewater typically contains high concentrations of total dissolved solids, chlorides, phosphates, total nitrogen, and pathogens. Although most can be removed to acceptable levels under optimal system operational and performance conditions, some remain in the effluent exiting the system. Consequently, subsurface disposal systems must be designed, installed, operated, maintained, and monitored so as to continually prevent pollution or contamination of waters of the State and the creation of nuisance.

3. Some chemical preservatives or other products used by the public for odor control in recreational vehicle (RV) holding tanks can inhibit degradation of organics, sludge, and scum in septic tanks; and pose a threat to groundwater quality.

4. The Rest Area's onsite wastewater treatment and disposal system, which was constructed in 1979 and upgraded in 1989, currently consists of a 21,000 gallon septic tank serving the facility restrooms, a 5,000 gallon septic tank serving as a RV dump station, and a subsurface leach field system (leach field), which receives wastes from both septic tanks. The average daily flow to the leach field is estimated at 7,600 gallons per day (gpd).

5. The Report of Waste Discharge, which was prepared by a licensed civil engineer, certified that the treatment and disposal facilities at the Rest Area have adequate capacity for the current public use of the facilities. This conclusion was based partly on a flow study that estimated the current daily flow rate at 7,590 gpd. The study consisted of a survey of the number of RVs discharging to the dump station and measurement of water consumption in the restrooms. Periodic updates of the study are necessary to ensure flows do not exceed the design flow of the treatment and disposal system.

6. There are no downgradient domestic wells located within one mile of the leach field.

7. This Regional Board adopted the *Water Quality Control Plan for the San Diego Basin* (hereinafter Basin Plan) on September 8, 1994 that designates beneficial uses, establishes water quality objectives, and contains implementation programs and policies to achieve those objectives for all waters addressed through the plan. In addition, the Basin Plan implements State Water Resources Control Board (State Water Board) Resolution No. 88-63, which established State policy that all

waters, with certain exceptions, should be considered suitable or potentially suitable for municipal or domestic supply. Beneficial uses applicable to the Cottonwood HA are municipal and domestic water supply (MUN) and agricultural supply (AGR).

8. The Basin Plan establishes the following groundwater quality objectives for the Cottonwood Hydrologic Area.

Table 1. Water Quality Objectives for Groundwater

HYDROLOGIC AREA	CONSTIUENT (mg/L or as noted)												
	(Concentrations not to be exceeded more than 10% of the time during any one year period)												
	TDS	Cl	SO_4	%Na	$N0_3$-	Fe	Mn	MBAS	B	ODOR	TURB (NTU)	COLOR (UNITS)	F
Cottonwood 911.60	500	250	250	60	45	0.3	0.05	0.5	0.75	none	5	15	1.0

Notes: TDS = Total Dissolved Solids, Cl = Chloride SO_4 = Sulfate, % Na = Percent Sodium, NO_3^- = Nitrate, Fe = Iron, Mn = Manganese, MBAS = Methylene Blue Activated Substances, Turb = Turbidity (NTU = Nephelometric Turbidity Units), F = Fluoride

9. State Water Board Resolution No. 68-16 (also known as the State Antidegradation Policy) requires that high quality of waters of the State are maintained to the maximum extent possible, even when that quality is better than needed to protect beneficial uses.

10. The discharge of wastes regulated under this Order is not expected to either degrade existing water quality or cause groundwater quality objectives to be exceeded downgradient of the property boundary. The Discharger, however, will complete a water quality investigation by January 30, 2011 to fully assess the potential impacts of the discharge to groundwater. Upon completion of this investigation, modification of the requirements in this Order may be necessary to comply with the Basin Plan or Antidegradation Policy or both.

11. A deadline of January 30, 2011 for submittal of the results of the water quality investigation discussed in Finding 10 by the Discharger is reasonable because it gives the Discharger sufficient time to install groundwater monitoring wells, collect effluent and groundwater samples, and assess any threatened water quality impacts as a result of the discharge of waste to the leach field.

12. Monitoring and Reporting Program No. R9-2009-0105 establishes monitoring and reporting requirements pursuant to California Water Code section 13267 that are necessary to verify compliance by the Discharger with the State Antidegradation Policy and Basin Plan groundwater quality objectives. The cost to implement the Monitoring and Reporting Program is reasonable in relationship to the need for the reports and the benefits to be obtained from the reports.

13. Establishment of a groundwater monitoring program for Order No. R9-2009-0105 is necessary because the Basin Plan states that waters designated for use as domestic or municipal supply shall not contain concentrations of chemical constituents in excess of maximum contaminant levels specified in the California Code of Regulations, Title 22, Table 64331-A of section 64431 (Inorganic Chemicals) and Table 64444-A of section 64444 (Organic Chemicals), incorporated by reference, including future changes to the incorporated provisions as the changes take effect.

14. This Regional Board has established standard waste discharge requirement provisions that are applicable to the facility wastewater treatment and disposal systems.

15. The project involved upgrading an existing onsite wastewater treatment system. The project is exempt from the requirements of the California Environmental Quality Act (CEQA) because it consisted of replacing an existing utility system involving negligible expansion of capacity, and as such is exempt from the provisions of CEQA, in accordance with section 15302 of Title 14, California Code of Regulations, Chapter 3, Article 19, section 15302.

16. This Regional Board has considered all water resource related environmental factors associated with the discharge of waste.

17. This Regional Board has notified the Discharger and interested agencies and persons of its intent to prescribe Waste Discharge Requirements for the discharge and has provided them with an opportunity to submit their written comments and recommendations.

18. This Regional Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the California Department of Transportation (Caltrans or Discharger), in order to meet the provisions contained in Division 7 of the Water Code and regulations adopted there under shall comply with the following:

A. PROHIBITIONS

1. Discharges of wastes, including windblown spray and runoff of effluent applied for irrigation, to lands which 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. Storage, use and/or disposal of wastes in a manner that would result in ponding or surfacing of wastes on lands beyond the disposal area, as described in the findings of this Order, is prohibited.

3. Discharge of treated or untreated solid or liquid waste to a navigable water or tributary of a navigable water is prohibited unless as authorized by an National Pollutant Discharge Elimination System (NPDES) permit issued by the Regional Board.

4. Neither the treatment, storage, nor disposal of waste shall create a condition of pollution, contamination or nuisance as defined by section 13050 of the Water Code.

5. The disposal of wastewater shall neither cause a violation of prohibitions stated in the Basin Plan, nor contribute to an exceedance of the water quality objectives of groundwater in the Cottonwood Hydrologic Area.

B. DISCHARGE SPECIFICATIONS

1. The discharge to the leach field at the facility shall only consist of domestic wastewater and recreational vehicle holding tank waste.

2. No part of the subsurface leach field 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. The maximum daily flow from the septic tanks shall not exceed 17,400 gallons per day.

4. The Discharger shall implement appropriate measures to ensure that no toxic chemical preservatives are discharged by recreational vehicles to the subsurface disposal system. Measures may include:

    a. Distributing literature to visitors informing them of the potential environmental impacts of using toxic nonbiodegradable chemical preservatives in recreational vehicle holding tanks.

b. Installing an impermeable tank for storage of recreational vehicle waste with disposal at a municipal wastewater treatment plant.

c. Posting notices and information at the Rest Area.

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.

   a. Routine inspection of the septic tanks to determine sludge and scum depths.

   b. Routine pumping of septic tank contents when necessary.

   c. Minimizing the liquid load on the septic system.

   d. Minimizing the use of septic tank additives.

   e. Preventing the disposal of household hazardous waste and toxic chemicals and minimizing the disposal of brines, phosphates and other inorganic salts to the septic systems.

2. System Specifications: The treatment systems shall comply with the following:

   a. Tanks, risers and lids shall be structurally sound, watertight and store wastes in a manner that will not create odors or vector attraction.

   b. Access openings to the septic tanks shall be secured to prevent unauthorized access.

3. Reserve Disposal Area: Sufficient land area shall be reserved for possible 100 percent replacement of the disposal area.

4. Wet Weather Facilities: The Discharger shall provide adequate facilities to treat or dispose of wastewater, or use alternative methods of disposal such as hauling wastewater by a certified waste hauler during and after periods of rainfall when disposal by subsurface irrigation cannot be successfully practiced due to surfacing effluent, and effluent runoff, and to prevent the

discharge of treated or untreated wastewater to any surface water body.

5. Effluent Storage Facilities: Effluent storage facilities shall be designed, constructed, operated, and maintained so as to prevent surfacing of wastes on property not owned or controlled by the Discharger. Surface runoff of any wastes which surface on property owned or controlled by the Discharger onto property not owned or controlled by the Discharger shall be prevented.

6. Flood Protection: All wastewater 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: The onsite wastewater treatment systems and the subsurface disposal systems 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 for Order No. R9-2009-0105 and future revisions thereto as specified by the Regional Board. Monitoring results shall be reported at the intervals specified in the Monitoring and Reporting Program.

9. Water Quality Investigation: The Discharger shall submit results of a water quality investigation by **January 30, 2011** that demonstrates that the discharge of waste from the Rest Area will not cause groundwater beneath and downgradient of the site to exceed water quality objectives in the Basin Plan. The water quality investigation shall also demonstrate that the discharge of waste complies with the State Antidegradation Policy. The State Antidegradation Policy requires that high quality waters are maintained to the maximum extent possible and that changes in water quality are only allowed if the change is consistent with the maximum benefit to the people of the State, does not unreasonably affect beneficial uses, and does not result in water quality less than that prescribed in the Basin Plan.

   In the event that the water quality investigation fails to demonstrate that the discharge of waste will not cause an exceedance of water quality objectives, or fails to demonstrate that the discharge complies with the State Antidegradation Policy, the Discharger must implement measures in a timely manner that ensure the discharge will comply with the Basin Plan and the State Antidegradation Policy.

10. Waste Solids: All treatment and storage of septage, sludge, and other solids shall neither create a nuisance, such as objectionable odors or flies, nor result in groundwater impacts, and shall be collected by a licensed waste hauler and transported to a treatment facility approved to receive and process the waste.

D. 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 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 Water Code, any substances or parameters at any location.

3. Civil Monetary Remedies: The 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 Water Code section 13350 (d), (e), or 13350 (f).

4. Penalties for Investigation, Monitoring or Inspection Violations: The 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 Water Code 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 Regional Board 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 Regional Board, 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 Regional Board 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 spill or overflow from any part of the onsite wastewater treatment system which runs off onto property not owned by the Discharger or is 1,000 gallons or more from pipeline breaks, pump failures, obstruction, surcharge or any other circumstances.

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 Failures: A defense for the Discharger shall not be that halting or reducing the permitted activity would have been necessary 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, 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 fails, reduces, or is 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 Basin 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 California 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 Clean Water Act (CWA) section 311, or the discharge is in violation of a prohibition in the applicable Basin 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.

12. General Reporting Requirement: The Discharger shall furnish to this Regional Board, within a reasonable time, any information which it may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish, 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 Regional Board. 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 current Discharger is liable for violations up to the transfer date and that the new Discharger 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 Water Code.

16. Incomplete Reports: Where the Discharger becomes aware that it failed to submit any relevant facts in a Report of Waste Discharge (ROWD) 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 Regional Board shall be signed and certified as follows:

    a. The Report of Waste Discharge shall be signed as follows:

For a corporation - by a principal Executive Officer of at least the level of Vice-President.

1. For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.

2. 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 Regional Board 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 Regional Board.

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 Regional Board to the following address:

Groundwater Basins Branch
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, California 92123

E. 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. USEPA Review: These requirements have not been reviewed by the USEPA, are not issued pursuant to CWA section 402.

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 takes effect on the date of adoption by the Regional Board.

I, David W. Gibson, Executive Officer, do hereby certify that this Order with all attachments is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Diego Region, on December 16, 2009.

Tentative

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DAVID W. GIBSON, Executive Officer
California Regional Water Quality Control Board, San Diego Region

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

TENTATIVE MONITORING AND REPORTING PROGRAM NO.R9- 2009-0105 FOR THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, DISTRICT 11 BUCKMAN SPRINGS SAFETY ROADSIDE REST AREA, SAN DIEGO COUNTY

This Monitoring and Reporting Program is issued pursuant to Water Code section 13267 and is intended to determine compliance with Waste Discharge Requirements in Order No. R9-2009-0105

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 (MRP) 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 notifying, and receiving approval from the Regional Board for the proposed monitoring location change.

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 ten 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 Code of Federal Regulations (CFR), Title 40, 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 MRP.

4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Public Health (CDPH) or a laboratory approved by the Regional Board.

5. Monitoring results must be reported on discharge monitoring report forms accepted by the Regional Board.

6. If the Discharger monitors any pollutants more frequently than required by this MRP, using test procedures approved under 40 CFR. Part 136, or as specified in this MRP, 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 MRP, and records of all data used to complete the application for this MRP. 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 required by the Regional Board.

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 methods used.

    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, including a discussion of any steps taken as required by Standard Provision D.5 of Order No. R9-2009-0105, when monitoring reports are submitted to the Regional Board.

11. The monitoring reports shall be signed by an authorized person as required by Standard Provision E.17 of Order No. R9-2009-0105.

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.

13. The Discharger shall identify all missing or non-valid monitoring or sampling results in monitoring reports submitted. All instances of

missing or non-valid results must be accompanied by an explanation of their root cause and the steps the Discharger has or will take to prevent future instances. Missing or non-valid results may be considered violations of Order No. R9-2009-0105 that could result in enforcement action depending on the frequency of such instances and efforts by the Discharger to prevent such failures.

B. EFFLUENT MONITORING

1. Samples of effluent shall be collected from the septic tank serving the facility restrooms prior to the discharge to the leach field. The Discharger is responsible for monitoring and reporting in accordance with the following criteria:

Table 2. Restroom Septic Tank Effluent Monitoring

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY	REPORTING FREQUENCY[1]
pH	pH Units	Grab	Quarterly[1,2]	Annually
Total Dissolved Solids (TDS)	mg/L	Grab	Quarterly[1,2]	Annually
Total Nitrogen (as N)	mg/L	Grab	Quarterly[1,2]	Annually
Boron	mg/L	Grab	Quarterly[1,2]	Annually
Chloride	mg/L	Grab	Quarterly[1,2]	Annually
Sulfate	mg/L	Grab	Quarterly[1,2]	Annually
Manganese	mg/L	Grab	Quarterly[1,2]	Annually
Fluoride	mg/L	Grab	Quarterly[1,2]	Annually
MBAS	mg/L	Grab	Quarterly[1,2]	Annually
Iron	mg/L	Grab	Quarterly[1,2]	Annually
Percent Sodium	Percent (%)	Grab	Quarterly[1,2]	Annually

[1] Quarterly is defined as once per three consecutive month period beginning with January, April, July, or October.
[2] Sampling Frequency shall be reduced from quarterly to annually after the first four quarterly sampling periods. Annual sampling shall be conducted during a month that highest use demand is expected.

2. Samples of effluent shall be collected from the septic tank serving the Recreational Vehicles prior to the discharge to the leach field. The Discharger is responsible for monitoring and reporting in accordance with the following criteria:

Table 3. RV Septic Tank Effluent Monitoring

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY	REPORTING FREQUENCY
pH	pH Units	Grab	Quarterly[1]	Annually
Total Dissolved Solids (TDS)	mg/L	Grab	Quarterly[1]	Annually
Total Nitrogen (as N)	mg/L	Grab	Quarterly[1]	Annually
Boron	mg/L	Grab	Quarterly[1]	Annually
Chloride	mg/L	Grab	Quarterly[1]	Annually
Sulfate	mg/L	Grab	Quarterly[1]	Annually
Manganese	mg/L	Grab	Quarterly[1]	Annually
Fluoride	mg/L	Grab	Quarterly[1]	Annually
MBAS	mg/L	Grab	Quarterly[1]	Annually
Iron	mg/L	Grab	Quarterly[1]	Annually
Percent Sodium	Percent (%)	Grab	Quarterly[1]	Annually
Formaldehyde	mg/L	Grab	Quarterly[1]	Annually
1,4-Dicholrobenzene	mg/L	Grab	Quarterly[1]	Annually
Aluminum	mg/L	Grab	Semiannually[3]	Annually
Antimony	mg/L	Grab	Semiannually[3]	Annually
Arsenic	mg/L	Grab	Semiannually[3]	Annually
Barium	mg/L	Grab	Semiannually[3]	Annually
Berylium	mg/L	Grab	Semiannually[3]	Annually
Cadmium	mg/L	Grab	Semiannually[3]	Annually
Chromium	mg/L	Grab	Semiannually[3]	Annually
Cyanide	mg/L	Grab	Semiannually[3]	Annually
Fluoride	mg/L	Grab	Semiannually[3]	Annually
Selenium	mg/L	Grab	Semiannually[3]	Annually
Thallium	mg/L	Grab	Semiannually[3]	Annually
Benzene	mg/L	Grab	Semiannually[2]	Annually
Carbon Tetrachloride	mg/L	Grab	Semiannually[2]	Annually
1,2-Dichlorobenzne	mg/L	Grab	Semiannually[2]	Annually
1,1-Dicholroethane	mg/L	Grab	Semiannually[2]	Annually
1,1-Dicholroethylne	mg/L	Grab	Semiannually[2]	Annually
cis-1.2-Dicholroethylene	mg/L	Grab	Semiannually[2]	Annually
trans-1,2-Dicholroethylene	mg/L	Grab	Semiannually[2]	Annually
Dichloromethane	mg/L	Grab	Semiannually[2]	Annually
1,2-Dichloropropane	mg/L	Grab	Semiannually[2]	Annually
1,3-Dicholropropene	mg/L	Grab	Semiannually[2]	Annually
Ethylbenzene	mg/L	Grab	Semiannually[2]	Annually
Methyl-tert-butyl ether	mg/L	Grab	Semiannually[2]	Annually
Monochlorobenzene	mg/L	Grab	Semiannually[2]	Annually
Styrene	mg/L	Grab	Semiannually[2]	Annually
1,1,2,2-Tetrachoroethane	mg/L	Grab	Semiannually[2]	Annually
Tetracholroethylene	mg/L	Grab	Semiannually[2]	Annually
Toluene	mg/L	Grab	Semiannually[2]	Annually
1,2,4-Trichlorobenzene	mg/L	Grab	Semiannually[2]	Annually
1,1,1-Trichoroethane	mg/L	Grab	Semiannually[2]	Annually
1,1,2-Trichoroethane	mg/L	Grab	Semiannually[2]	Annually

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY	REPORTING FREQUENCY
Trichloroethylene	mg/L	Grab	Semiannually[2]	Annually
Trichlorofluoromethane	mg/L	Grab	Semiannually[2]	Annually
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/L	Grab	Semiannually[2]	Annually
Vinyl Chloride	mg/L	Grab	Semiannually[2]	Annually
Xylenes	mg/L	Grab	Semiannually[2]	Annually
Alachor	mg/L	Grab	Semiannually[2]	Annually
Atrazine	mg/L	Grab	Semiannually[2]	Annually
Benzaton	mg/L	Grab	Semiannually[2]	Annually
Benzo(a)pyrene	mg/L	Grab	Semiannually[2]	Annually
Carbofuran	mg/L	Grab	Semiannually[2]	Annually
Chlordane	mg/L	Grab	Semiannually[2]	Annually
2,4-D	mg/L	Grab	Semiannually[2]	Annually
Dalapon	mg/L	Grab	Semiannually[2]	Annually
Dibromochloropropane	mg/L	Grab	Semiannually[2]	Annually
Di (2-ethylhexyl)adipate	mg/L	Grab	Semiannually[2]	Annually
Dinoseb	mg/L	Grab	Semiannually[2]	Annually
Diquat	mg/L	Grab	Semiannually[2]	Annually
Endothall	mg/L	Grab	Semiannually[2]	Annually
Endrin	mg/L	Grab	Semiannually[2]	Annually
Ethylene Di bromide	mg/L	Grab	Semiannually[2]	Annually
Glyphosate	mg/L	Grab	Semiannually[2]	Annually
Heptachlor	mg/L	Grab	Semiannually[2]	Annually
Heptachlor Epoxide	mg/L	Grab	Semiannually[2]	Annually
Hexachlorobenzene	mg/L	Grab	Semiannually[2]	Annually
Hexachlorocyclopentadiene	mg/L	Grab	Semiannually[2]	Annually
Lindane	mg/L	Grab	Semiannually[2]	Annually
Methyloxychlor	mg/L	Grab	Semiannually[2]	Annually
Molinate	mg/L	Grab	Semiannually[2]	Annually
Oxamyl	mg/L	Grab	Semiannually[2]	Annually
Pentachlorophenol	mg/L	Grab	Semiannually[2]	Annually
Picloram	mg/L	Grab	Semiannually[2]	Annually
Polychlorinated Biphenyls	mg/L	Grab	Semiannually[2]	Annually
Simazine	mg/L	Grab	Semiannually[2]	Annually
Thibencarb	mg/L	Grab	Semiannually[2]	Annually
Toxaphene	mg/L	Grab	Semiannually[2]	Annually
2,3,7,8-TCDD (Dioxin)	mg/L	Grab	Semiannually[2]	Annually
2,3,5-TP-Silvex	mg/L	Grab	Semiannually[2]	Annually

[1] Sampling Frequency shall be reduced from quarterly to annually after the first four quarterly sampling periods. Annual sampling shall be conducted during a month that highest use demand is expected.

[2] Semiannually means a period of six consecutive calendar months beginning on January 1 or July 1. Monitoring shall be discontinued for all constituents that are not detected in the first two consecutive semiannual samples. For constituents that are detected in one of two samples, the Discharger shall monitor the constituent for a third semiannual period. If the constituent is detected during the third semiannual sampling event or detected in both the first and second semiannual sampling events, the Discharger shall conduct and submit the results of a source identification assessment and identify appropriate measures to eliminate

the constituent in the discharge. The Discharger shall continue to monitor for the constituent annually until such time that two consecutive samples document that the constituent has been eliminated from the discharge.

[3] Monitoring shall be discontinued for constituents that are detected at concentrations below background levels in groundwater in the first two consecutive semiannual samples. For constituents that are detected above background concentrations in the groundwater in one of first two samples, the Discharger shall monitor the constituent for a third semiannual period. If the constituent is above the background concentration in the groundwater in the third semiannual sampling event or in both the first and second semiannual sampling events, the Discharger shall conduct and submit the results of a source identification assessment and identify appropriate measures to reduce the concentrations of the constituent in the discharge or demonstrate compliance with the State Antidegradation Policy. The Discharger shall continue to monitor for the constituent annually until such time that two consecutive samples document that the discharge of the constituent complies with Basin Plan and the State Antidegradation Policy.

C. GROUNDWATER MONITORING

1. Within 60 days of adoption of this Order, the Discharger shall construct monitoring wells for collection of groundwater samples for water quality analysis. Monitoring wells shall be constructed and installed under the supervision of a geologist, or civil engineer registered in the State of California. Monitoring wells shall be installed and located at a minimum of three locations that meet the following criteria:

    a. A groundwater monitoring well located upgradient from the leach field to provide background groundwater quality prior to any possible impact from wastewater discharges.

    b. Two representative groundwater wells located downgradient from the leach field to provide water quality information in groundwater that may be impacted by wastewater discharges.

    c. Monitoring wells shall be constructed to allow collection of groundwater from the top five feet of the first groundwater collected, to a depth of at least 15 feet below the water table at the time of well boring, with an appropriate screened interval.

2. The Discharger shall collect groundwater samples from all monitoring wells constructed as described in Provisions C.1 of this MRP. Groundwater shall be monitored in accordance with the criteria specified in Table 4, Groundwater Monitoring.

Table 4. Groundwater Monitoring

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY	REPORTING FREQUENCY
pH	pH Units	Grab	Quarterly[1]	Annually
Total Dissolved Solids (TDS)	mg/L	Grab	Quarterly[1]	Annually
Total Nitrogen (as N)	mg/L	Grab	Quarterly[1]	Annually
Boron	mg/L	Grab	Quarterly[1]	Annually
Chloride	mg/L	Grab	Quarterly[1]	Annually
Sulfate	mg/L	Grab	Quarterly[1]	Annually
Manganese	mg/L	Grab	Quarterly[1]	Annually
Fluoride	mg/L	Grab	Quarterly[1]	Annually
MBAS	mg/L	Grab	Quarterly[1]	Annually
Iron	mg/L	Grab	Quarterly[1]	Annually
Percent Sodium	Percent (%)	Grab	Quarterly[1]	Annually
Formaldehyde	mg/L	Grab	Quarterly[1]	Annually
1,4-Dicholrobenzene	mg/L	Grab	Quarterly[1]	Annually
Aluminum	mg/L	Grab	Semiannually[3]	Annually
Antimony	mg/L	Grab	Semiannually[3]	Annually
Arsenic	mg/L	Grab	Semiannually[3]	Annually
Barium	mg/L	Grab	Semiannually[3]	Annually
Berylium	mg/L	Grab	Semiannually[3]	Annually
Cadmium	mg/L	Grab	Semiannually[3]	Annually
Chromium	mg/L	Grab	Semiannually[3]	Annually
Cyanide	mg/L	Grab	Semiannually[3]	Annually
Fluoride	mg/L	Grab	Semiannually[3]	Annually
Selenium	mg/L	Grab	Semiannually[3]	Annually
Thallium	mg/L	Grab	Semiannually[3]	Annually
Benzene	mg/L	Grab	Annually[2]	Annually
Carbon Tetrachloride	mg/L	Grab	Annually[2]	Annually
1,2-Dichlorobenzne	mg/L	Grab	Annually[2]	Annually
1,1-Dicholroethane	mg/L	Grab	Annually[2]	Annually
1,1-Dicholroethylne	mg/L	Grab	Annually[2]	Annually
cis-1.2-Dicholroethylene	mg/L	Grab	Annually[2]	Annually
trans-1,2-Dicholroethylene	mg/L	Grab	Annually[2]	Annually
Dichloromethane	mg/L	Grab	Annually[2]	Annually
1,2-Dichloropropane	mg/L	Grab	Annually[2]	Annually
1,3-Dicholropropene	mg/L	Grab	Annually[2]	Annually
Ethylbenzene	mg/L	Grab	Annually[2]	Annually
Methyl-tert-butyl ether	mg/L	Grab	Annually[2]	Annually
Monochlorobenzene	mg/L	Grab	Annually[2]	Annually
Styrene	mg/L	Grab	Annually[2]	Annually
1,1,2,2-Tetrachoroethane	mg/L	Grab	Annually[2]	Annually
Tetracholroethylene	mg/L	Grab	Annually[2]	Annually
Toluene	mg/L	Grab	Annually[2]	Annually
1,2,4-Trichlorobenzene	mg/L	Grab	Annually[2]	Annually
1,1,1-Trichoroethane	mg/L	Grab	Annually[2]	Annually
1,1,2-Trichoroethane	mg/L	Grab	Annually[2]	Annually

CONSTITUENT	UNIT	TYPE OF SAMPLE	SAMPLING FREQUENCY	REPORTING FREQUENCY
Trichlorofluoromethane	mg/L	Grab	Annually[2]	Annually
1,1,2-Trichloro-1,2,2-Trifluoroethane	mg/L	Grab	Annually[2]	Annually
Vinyl Chloride	mg/L	Grab	Annually[2]	Annually
Alachor	mg/L	Grab	Annually[2]	Annually
Atrazine	mg/L	Grab	Annually[2]	Annually
Benzaton	mg/L	Grab	Annually[2]	Annually
Benzo(a)pyrene	mg/L	Grab	Annually[2]	Annually
Carbofuran	mg/L	Grab	Annually[2]	Annually
Chlordane	mg/L	Grab	Annually[2]	Annually
2,4-D	mg/L	Grab	Annually[2]	Annually
Dalapon	mg/L	Grab	Annually[2]	Annually
Dibromochloropropane	mg/L	Grab	Annually[2]	Annually
Di (2-ethylhexyl)adipate	mg/L	Grab	Annually[2]	Annually
Dinoseb	mg/L	Grab	Annually[2]	Annually
Diquat	mg/L	Grab	Annually[2]	Annually
Endothall	mg/L	Grab	Annually[2]	Annually
Endrin	mg/L	Grab	Annually[2]	Annually
Ethylene Di bromide	mg/L	Grab	Annually[2]	Annually
Glyphosate	mg/L	Grab	Annually[2]	Annually
Heptachlor	mg/L	Grab	Annually[2]	Annually
Heptachlor Epoxide	mg/L	Grab	Annually[2]	Annually
Hexachlorobenzene	mg/L	Grab	Annually[2]	Annually
Hexachlorocyclopentadiene	mg/L	Grab	Annually[2]	Annually
Lindane	mg/L	Grab	Annually[2]	Annually
Methyloxychlor	mg/L	Grab	Annually[2]	Annually
Molinate	mg/L	Grab	Annually[2]	Annually
Oxamyl	mg/L	Grab	Annually[2]	Annually
Pentachlorophenol	mg/L	Grab	Annually[2]	Annually
Picloram	mg/L	Grab	Annually[2]	Annually
Polychlorinated Biphenyls	mg/L	Grab	Annually[2]	Annually
Simazine	mg/L	Grab	Annually[2]	Annually
Thibencarb	mg/L	Grab	Annually[2]	Annually
Toxaphene	mg/L	Grab	Annually[2]	Annually
2,3,7,8-TCDD (Dioxin)	mg/L	Grab	Annually[2]	Annually
2,3,5-TP-Silvex	mg/L	Grab	Annually[2]	Annually

[1] Sampling Frequency shall be reduced from quarterly to annually after the first four quarterly samples have been collected.
[2] Annually means a calendar year beginning on January 1. Annual groundwater monitoring is only required for constituents that are detected during the RV septic tank effluent monitoring being conducted under Provision B.2 of this MRP.
[3] Semiannually means a period of six consecutive calendar months beginning on January 1 or July 1. Monitoring for these constituents shall be conducted semiannually for the first year, and then annually for those constituents in the RV septic tank effluent that exceed background levels. Monitoring can be discontinued for constituents that are reported below levels detected in the RV septic tank effluent for the first two semiannual sampling events.

D. MAINTENANCE AND INSPECTION

1. The Discharger shall inspect the septic tanks annually and report the sludge depth and scum thickness (in feet) in each compartment of each septic tank annually.

2. Septic tanks shall be pumped when the combined thickness of sludge and scum exceeds one third of the septic tank depth as measured from the water line to the bottom of the tank.

3. Visual inspections of the disposal area shall be conducted semiannually. The Discharger shall also report the dates the visual inspections were conducted, and report if any odors or surfacing sewage was detected in the disposal area.

4. A record of inspections and maintenance activities shall be maintained by the Discharger for a minimum of five years. Records must include the date of the inspection and/or maintenance, and a summary of all observations or activities.

E. SEWAGE SOLIDS AND SLUDGE

A log of the type, quantity, location and manner of disposal of solids removed in the course of sewage treatment shall be maintained at the facility and a report summarizing the data shall be submitted annually.

F. SPECIAL STUDY

The discharger shall conduct a special study within four years after adoption of the Order, and submit results of the special study no later than five years after adoption of the Order. The special study shall be conducted to determine current peak and average flows to the treatment and disposal facilities, and shall certify that the design capacity of the treatment and disposal facilities have not been exceeded. Flow estimates can be determined based on the number of recreational vehicles discharging to the dump station and water meter readings. The special study must be certified by a civil engineer registered in the State of California.

A special study as described above shall be conducted and submitted to the Regional Board at least once every five years.

G. REPORT SCHEDULE

Monitoring Reports shall be submitted to the Regional Board in accordance with the following schedule:

Reporting Frequency	Report Period	Report Due
Annual	January – December	January 30

Monitoring reports shall be submitted to:

Groundwater Basins Branch
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, California 92123

Ordered by: **Tentative**

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DAVID W. GIBSON, Executive Officer
California Regional Water Quality
Control Board, San Diego Region

DATE: December 16, 2009