

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

ORDER NO. R9-2009-0007

WASTE DISCHARGE REQUIREMENTS

FOR

**THE GARCIA RESIDENCE
ONSITE WASTEWATER TREATMENT SYSTEM
SAN DIEGO COUNTY**

Table of Contents

	Findings	2
A.	Prohibitions	4
B.	Discharge Specifications	5
C.	OWTS Design and Operation Specifications	5
D.	Sewage Solids and Sludge Specification	9
E.	Provisions	10
F.	Notifications	12
	Attachment No. 1 (Key Terms and Definitions)	14
	Monitoring and Reporting Program No. R9-2009-0007	
A.	Monitoring Provisions	16
B.	Effluent Monitoring	18
C.	Sewage Solids and Sludge	18
D.	Report Schedule	18

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

1. On September 20, 2007, Mr. Mauro and Nina Garcia (Dischargers) submitted to this Regional Board an incomplete Report of Waste Discharge (ROWD) for the subsurface disposal of domestic wastewater. The Dischargers submitted additional information on July 17, 2008 and December 22, 2008 which completed the ROWD.
2. The Dischargers owns a 2.48 acre property, assessor's parcel number 264-101-54, located on an easement off Fortuna Ranch Road in the unincorporated area of Encinitas (Property), which will be used for their five bedroom single family dwelling. Wastewater from the house will be treated with an onsite wastewater treatment system (OWTS) and disposed of via a subsurface drip irrigation system overlying the San Elijo Hydrologic Subarea (HSA 904.61) of the Escondido Hydrologic Area (HA 904.60) of the Carlsbad Hydrologic Unit (HU 904.00).
3. Septic tank effluent from domestic wastewater typically contains high concentrations of total dissolved solids, chlorides, phosphates, total nitrogen, and pathogens. Although most constituents can be removed to acceptable levels under optimal system operational and performance conditions, some remain in the effluent exiting the system. In order to prevent pollution or contamination of waters of the State and the creation of nuisance, a contract with a service provider is needed to ensure adequate maintenance and monitoring of the treatment and disposal system.
4. Cost estimates for connection to the sanitary sewer proved to be cost prohibitive due to the length and depth of a new sewer line; therefore, onsite treatment of wastewater is necessary for this project. Because the site characteristics are not suitable for the use of a conventional leachfield, the Dischargers propose to install a subsurface drip irrigation system, which necessitates advanced treatment of the wastewater. The proposed OWTS is designed to meet or exceed the American National Standards Institute/National Science Foundation Standard 40 for a flow of 750 gallons per day.
5. Prior to installation of the OWTS, a design report stating specific site conditions and site plans is needed to demonstrate that the OWTS will meet the performance standards of this Order. The performance standards are in place to ensure the protection of public health and the environment.
6. In accordance with the criteria established in section 2200, Title 23 of the California Code of Regulations (CCR), the wastewater discharged from the treatment system is appropriately classified as having a threat to water quality at level 3 and complexity at level C.

7. This Regional Board, acting in accordance with section 13244 of the California Water Code (Water Code), adopted the *Water Quality Control Plan for the San Diego Basin (9)*, (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, water quality objectives, and provides guidance for regulation of individual domestic subsurface disposal systems.
8. The Basin Plan established agricultural supply (AGR) and industrial service supply (IND) as existing beneficial uses of groundwater in San Elijo HSA 904.61. The Basin Plan also established municipal and domestic supply (MUN) as a potential beneficial use of the groundwater in San Elijo HSA 904.61.
9. The Basin Plan establishes the following groundwater quality objectives for San Elijo HSA 904.61:

Table 1. Water Quality Objectives for Groundwater

HYDROLOGIC AREA	CONSTITUENT (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 ²	NO ₃ -	Fe	Mn	M B A S	B	O D O R	TURB (NTU)	COLOR (UNITS)	F
San Elijo (904.61)	2,800	700	600	60	45	0.3	0.05	0.5	0.75	none	5	15	1.0

Notes: TDS = total dissolved solids; Cl = chlorine; SO₄ = sulfate; %Na = percent sodium; NO₃ = nitrate; Fe = iron; Mn = manganese; MBAS = methylene blue – activated substance; B = boron; Turb = turbidity (NTU = nephelometric turbidity units); F = fluoride.

10. The SWRCB established California's antidegradation policy in Resolution No. 68-16, *Statement of Policy with Respect to Maintaining High Quality of Waters in California*. Resolution No. 68-16 incorporates the federal antidegradation policy where applicable. Resolution No. 68-16 requires that existing quality of waters be maintained unless degradation is justified based on specific findings. The discharge of wastes regulated under this Order is not expected to degrade existing water quality.
11. 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.
12. The Regional Board adopted a negative declaration on April 8, 2009 in accordance with the California Environmental Quality Act (Public Resources Code, section 21000 et seq.) for the discharge of waste from an OWTS to land

via a subsurface drip irrigation system. The negative declaration identified that the project will have no significant effect on water quality.

13. The subsurface discharge of wastewater is exempt from CCR Title 27 regulations in accordance with CCR, Title 27, Division 2, Subdivision 1, Chapter 1, Article 1 because it meets the conditions prescribed in CCR section 20090(b): (a) the discharge is subject to the waste discharge requirements prescribed in this Order; (b) the discharge is in compliance with the Basin Plan; and (c) the discharge is not a hazardous waste.
14. This Regional Board has notified the Dischargers and all known interested persons of the intent to prescribe waste discharge requirements for the proposed discharge.
15. This Regional Board in a public meeting has heard and considered all comments pertaining to the proposed discharge of waste from the OWTS.

IT IS HEREBY ORDERED THAT Mr. Mauro and Nina Garcia (the Dischargers), in order to meet the provisions contained in Division 7 of the Water Code and Regulations adopted thereunder, shall comply with the following requirements for the treatment, storage, and discharge of domestic wastewater from the OWTS.

A. PROHIBITIONS

1. Discharge of wastes or sewage sludge or solids to lands that have not been specifically described in the ROWD, and for which valid waste discharge requirements are not in force, are prohibited.
2. Neither the treatment, nor storage, nor disposal of waste shall create a condition of pollution, contamination or nuisance, as defined by Water Code section 13050.
3. Discharges of treated or untreated solid or liquid waste into a navigable water or tributary of a navigable water are prohibited, unless as authorized by National Pollutant Discharge Eliminations System requirements issued by this Regional Board.
4. The discharge of wastewater shall not cause a violation of the waste discharge prohibitions contained in the Basin Plan.
5. The discharge of wastewater shall not create ponding of discharged wastewater or surface flow of effluent away from the disposal area.
6. Total effluent flow to the subsurface drip irrigation system in excess of 750 gallons per day is prohibited unless the Dischargers obtains revised waste discharge requirements for the proposed increase in flow.

B. DISCHARGE SPECIFICATIONS

1. The discharge to the disposal system at the facility shall be comprised only of domestic wastewater.
2. The discharge of treated domestic wastewater shall not exceed the following discharge specifications:

Table 2. Discharge Specifications

Constituent	Units	30-day Average
BOD	mg/L	30 ^a
TSS	mg/L	30 ^a
Nitrogen	mg/L	15 ^b

- a. Based on 40 CFR 133.102.
- b. Based on the applicable groundwater quality objective and an assumed vegetation uptake is 30%.

C. OWTS DESIGN AND OPERATION SPECIFICATIONS

1. Prior to installation of the OWTS and disposal system, a design plan shall be submitted to the Regional Board. The design plan shall be signed by and prepared by a professional civil engineer, licensed pursuant to California law, or other person as may be permitted under the provisions of the California Business and Professions Code. At a minimum, the design plan must consider:
 - a. The OWTS and disposal system shall be protected against 100-year peak stream flows as defined by the San Diego County flood control agency;
 - b. The OWTS and disposal system shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year, 24-hour frequency storm;
 - c. The disposal system shall be designed and maintained to reduce orifice clogging and root intrusion;
 - d. The disposal system shall be designed, located, and maintained to prevent a vehicle from being driven or placed over the disposal system;
 - e. The disposal area shall be calculated as extending one foot beyond the sides of the outermost emitter lines;

- f. Subsurface drip disposal systems shall be considered pressure distribution systems, head loss calculations shall be provided to insure proper hydraulic pressure at the emitter;
- g. Pump selection and pump performance curves shall be included in the design plan;
- h. Recirculation rates shall be determined;
- i. Check valves, petcocks, inline filters, and vacuum breaking device locations shall be shown on the design drawings;
- i. Drip irrigation systems shall be time-dosed over the 24-hours period, demand control dosing shall override timed-dosing in periods of flow where timed dosing cannot accommodate the excessive flow;
- j. Emitter lines shall be designed as a continuous loop circuit with no dead-ends and be drawn to scale with emitter spacing indicated on the drawings.
- k. Vacuum release valves shall be installed at the highpoint of the emitter lines;
- l. The maximum emitter longitudinal spacing on an emitter line shall be 2 feet, the maximum spacing between adjacent emitter lines in an absorption bed configuration shall be 2 feet, 24 inches of separation from the seasonal high water table shall be measured from the emitter orifice;
- m. The setback from drip emitter lines to building foundations and property lines shall be no less than two feet;
- n. No part of the 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;
- o. The horizontal distance between pressure water mains and any part of the OWTS or disposal system shall not be less than 10 feet;
- p. The elevation of any fill covering the disposal area shall extend no less than 18 inches away from all emitter lines before tapering down to natural grade;
- q. Minimum cover on the emitter lines shall be 6 inches for all drip irrigation systems, the maximum cover shall be no greater than 12 inches;

- r. The system shall include a petcock on the dosing pump discharge line for effluent sampling;
 - s. All systems shall incorporate an automatic mechanism for backwashing or flushing the drip lines and filters; and
 - t. Drip irrigation systems shall be designed to have a minimum operating pressure at the emitter head of 10 PSI, a maximum operating pressure at the emitter head of 45 PSI, a maximum system operation pressure of 60 PSI, and a maximum discharge rate per emitter of 1.5 gallons per hour.
2. The professional civil engineer who designed the system, or the civil engineer's designee, shall observe the entire installation and shall certify in writing that the installed system complies with the certified design plan. The professional civil engineer shall affix their signature, engineering license number, and certification statement to the certification report. The certification statement shall read:

"I certify that the engineering features of this OWTS (disposal system) have been examined by me and found to substantially comply with all specification contained in the design plan that was the basis for issuance of the waste discharge requirements. I certify that the operation and maintenance manual for this OWTS (disposal system) have been prepared or examined by me or by an individual(s) under my direct supervision and that there is reasonable assurance, in my professional judgment, that the system, when properly operated and maintained in accordance with this manual, will achieve the established performance standards and comply with all applicable statutory requirements and rules of the State of California."

Prior to initiation of the discharge, the Dischargers shall ensure that following requirements are met:

- a. The certification report is received by the Regional Board;
- b. Before covering with earth and before placing the OWTS into service, a person installing or constructing any portion of the OWTS and disposal system shall notify the Regional Board of the completion of the construction activities and, within 5 business days, shall have the system inspected by either the Regional Board or party authorized by the Regional Board;
- c. The Dischargers obtain a determination from the Regional Board that the system may be backfilled; and

- d. The Regional Board notifies the Dischargers by letter that discharge may be initiated.
3. A copy of the facility operation and maintenance (O & M) manual shall be maintained at the Dischargers' Property and shall be available to operation personnel and Regional Board staff at all times. The O & M manual shall include, at a minimum:
 - a. The name, address, telephone number, business and professional license number of the OWTS designer;
 - b. The name, address, telephone number, business and professional license number, where applicable, of the OWTS installer;
 - c. The name, address, and telephone number of the service provider that maintains any supplemental treatment system;
 - d. Instructions for proper operation and maintenance and a protocol for assessing performance of the OWTS;
 - e. The record plan, which details the "as-built" installation of the OWTS, including but not limited to final placement of the OWTS, its components, and sizes and specifications of components.
 - f. The design flow and performance requirements for the OWTS;
 - g. A list of types of substances that could inhibit performance if discharged to the OWTS; and
 - h. A list of substances that could cause a condition of pollution or nuisance if discharged to the OWTS, including but not limited to pharmaceutical drugs and water softener regeneration brines.
4. The Dischargers shall submit a copy of the record plan to Regional Board within 60 days of installation of the OWTS and disposal system.
5. The Dischargers shall obtain and maintain, in addition to the O&M manual and record plan, a contract with a service provider to ensure proper operation, maintenance, and monitoring of the OWTS. Proper operation and maintenance includes effective performance, adequate funding, adequate training of service providers, 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.

6. Upon the sale of the Property, it is the obligation of the Dischargers to provide the buyer, through escrow or otherwise, with a complete copy of these waste discharge requirements, the O&M manual, and record plan for the OWTS.
7. Visual inspections of the disposal system shall be conducted on a weekly basis for the first three months and on a monthly basis for the following nine months. After the first year, a visual inspection of the disposal system shall be conducted every six months.
8. A record of inspections and maintenance activities shall be maintained by the Dischargers for a minimum of five years. Records must include the date of the inspection and/or maintenance, and a detailed summary of all observations or activities.
9. The disposal system shall be flushed once every three months for the first year or until vegetation is establish, whichever occurs first. Flushing shall occur every six months thereafter.
10. Sufficient land area shall be reserved for possible future 100 percent replacement of the disposal area.
11. Adequate measures shall be taken to assure that unauthorized persons are effectively excluded from contact with the wastewater.
12. Access openings to the septic tank shall have watertight risers and shall be set with six inches of finished grade.
13. Access openings shall be secured to prevent unauthorized access.
14. The Dischargers shall comply with the attached Monitoring and Reporting Program No. R9-2009-0007, and future revisions thereto as specified by the Regional Board. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. R9-2009-0007.

D. SEWAGE SOLIDS AND SLUDGE SPECIFICATION

Solids and sludge storage shall not create a nuisance, such as objectionable odors or flies, and shall not result in groundwater contamination or pollution. All collected sludge and other solids pumped from the OWTS must be disposed of in a municipal solid waste landfill or disposed of in a sludge-only landfill accordance with 40 CFR Parts 503 and 258, and CCR Title 27.

E. PROVISIONS

1. 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 an application for new or revised waste discharge requirements.
2. The Dischargers shall allow the Regional Board,¹ 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 Dischargers' 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 factors at any location.
3. 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 (f).
4. The Water Code provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order,² 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. The Dischargers 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.

¹ Under authority of California Water Code section 13267(c).

² Under authority of California Water Code section 13267(b).

6. In an enforcement action, a defense for the Dischargers shall not be that halting or reducing the regulated activity would have been necessary in order to maintain compliance with this Order. Upon reduction, loss, or failure of the treatment facility, the Dischargers 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 to the OWTS is failed, reduced, or lost.
7. A copy of this Order shall be kept at the Dischargers' Property and shall be available to operating and maintenance personnel.
8. The Dischargers shall furnish to the Regional Board, within a reasonable time, any information which the Regional Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this Order. The Discharger shall also furnish to the Regional Board, upon request, copies of records required to be kept by this Order.
9. This Order may be amended, rescinded, or updated 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; or
 - c. A change in any condition that requires either a temporary or permanent reduction or elimination the authorized discharge.

The filing of a request by the Dischargers for amending, rescinding, or updating this Order, or notification of planned changes or anticipated noncompliance does not stay any condition of this Order.

10. The Dischargers shall file a new Report of Waste Discharge at least 120 days prior to any circumstances that result in a material change in character, amount, or location of the waste discharge, including:
 - a. 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);
 - b. Change in the disposal area from that described in the findings of this Order;
 - c. Increase in flow beyond that specified in this Order; or
 - d. Any planned change in the regulated facility or activity which may result in noncompliance with this Order.

11. 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 responsibility to ensure compliance with this Order and continuation of coverage between the current Dischargers and the new discharger. This agreement shall include an acknowledgement that the existing Dischargers are liable for violations up to the transfer date and that the new discharger is liable for violations occurring after the transfer date. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the Discharger and incorporate any other requirements as may be necessary under the Water Code.
12. Where the Dischargers become aware that they 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, they shall promptly submit such facts or information.
13. All applications, reports, or information submitted to the Regional Board shall be signed by either Mr. Mauro Garcia or Mrs. Nina Garcia. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."
14. The Discharger shall submit reports required under this Order or other information required by the Regional Board to the following address:

California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, California 92123
Attn: Supervisor, Central San Diego Groundwater Unit

F. NOTIFICATIONS

1. 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. These requirements have not been officially reviewed by the United States Environmental Protection Agency and are not issued pursuant to section 402 of the Clean Water Act.
3. 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. Upon adoption of the statewide waiver of waste discharge requirements for discharges from onsite wastewater treatment systems, this Order may be rescinded and the Discharger may apply for a permit with the County of San Diego Department of Environmental Health.
5. This Order becomes effective on the date of adoption by the San Diego Regional Water Quality Control Board.

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Diego Region, on April 8, 2009.



JOHN H. ROBERTUS, Executive Officer
San Diego Regional Water Quality Control Board

ATTACHMENT NO. 1

TO

ORDER NO. R9-2009-0007

KEY TERMS AND DEFINITIONS

“Annually” means a calendar year.

“Conventional leachfield” means a gravity subsurface disposal system.

“Design plan” means the report containing design specifications for the proposed OWTS and disposal system. The design plan must discuss the requirements listed in OWTS Design and Operation Specifications C.1 of Order No. R9-2009-0007.

“Disposal system” means a subsurface drip irrigation system for the final wastewater treatment and subsurface discharge.

“Domestic wastewater” means the type of wastewater normally discharged from, or similar to, that discharged from plumbing fixtures

“(Drip) emitter line” means the tubes that comprise the subsurface drip irrigation system and deliver treated domestic wastewater to the upper layer of the soil column.

“Onsite wastewater treatment system(s)” (OWTS) has the same meaning found in section 13290 of the California Water Code. The short form of the term may be singular or plural.

“Ponding” means the accumulation of water on the surface of the ground.

“Property” means the location of the OWTS. Specifically, the 2.48 acre property located on an easement off Fortuna Ranch Road in the unincorporated area of Encinitas, CA; assessor’s parcel number 264-101-54.

“Qualified professional” means an individual licensed or certified by a State of California agency to design and construct OWTS, including an individual who possesses a registered environmental health specialist certificate or is currently licensed as a professional engineer or professional geologist.

“Record plan” means the document prepared by either a qualified professional or person authorized to install OWTS. The record plan details the ‘as-built’ installation of the OWTS, including but not limited to final placement of an OWTS, its components, sizes, and the specifications of components.

“Semiannually” is defined as a period of six consecutive calendar months beginning on January 1 or July 1.

“Septic tank” means a watertight, covered receptacle designed for primary treatment of wastewater and constructed to:

1. Receive wastewater discharged from a building;
2. Separate settleable and floating solids from liquid;
3. Digest organic matter by anaerobic bacterial action;
4. Store digested solids; and
5. Clarify wastewater for further treatment with final subsurface discharge.

“Septic tank effluent” means wastewater discharged from a septic tank.

“Service provider” means a person capable of operating, monitoring, and maintaining an OWTS consistent with the requirements and responsibilities of this Order and the O&M manual.

“Sewage sludge or solids” means the solid portion of the wastewater that has settled out of the liquid and accumulates at the bottom of the septic tank.

“Subsurface drip irrigation system” means a disposal system designed to apply wastewater at the upper layer of the soil column using pressure distribution.

“Surface flow” means the movement of wastewater that has surfaced and flows away from the disposal area.

“Treated domestic wastewater” means the wastewater that has undergone additional wastewater treatment for the purpose of distributing to a subsurface drip irrigation system.

“Vegetation uptake” means the ability of plants to remove and accumulate compounds from the soil.

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

MONITORING AND REPORTING PROGRAM NO. R9-2009-0007

**THE GARCIA RESIDENCE
ALTERNATIVE ONSITE WASTEWATER TREATMENT SYSTEM
SAN DIEGO COUNTY**

This Monitoring and Reporting Program is issued under authority of California Water Code section 13267 and is intended to provide information necessary to determine compliance with Waste Discharge Requirements in Order No. R9-2009-0007.

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 collected from 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 notification to and the acceptance by the California Regional Water Quality Control Board, San Diego Region (Regional Board).
2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure that the accuracy of the measurements is consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than 10 percent from true discharge rates throughout the range of expected discharge volumes.
3. Monitoring must be conducted according to U. S. 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 or a laboratory acceptable to the Regional Board.
5. Monitoring results must be reported on discharge monitoring report forms acceptable to the Regional Board.

6. If Mr. Mauro and Nina Garcia (Dischargers) monitor 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. 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; and
 - f. The results of such analyses.
8. All monitoring instruments and devices that are used by the Dischargers to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
9. The Dischargers shall report all instances of noncompliance, including a discussion of any steps taken as required by Provision E.5 of Order No. R9-2009-0007, when monitoring reports are submitted to the Regional Board.
10. The monitoring reports shall be signed by an authorized person as required by Order Provision E.13.
11. A composite sample is defined as a combination of at least eight sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period. For volatile pollutants, aliquots must be combined in the laboratory immediately before analysis. The composite must be flow proportional; either the time interval between each aliquot or the volume of each aliquot must be proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot. Aliquots may be collected manually or automatically.
12. A grab sample is an individual sample of at least 100 milliliters collected at a randomly selected time over a period not exceeding 15 minutes.

B. EFFLUENT MONITORING

Samples of the septic tank effluent shall be collected prior to its entering the disposal system. The Dischargers are responsible for monitoring and reporting in accordance with the following criteria:

Constituent	Units	Type of Sample	Sampling Frequency	Reporting Frequency
Flow Rate	MGD	Continuous	Continuous	Annually
Biochemical Oxygen Demand, Five Day	mg/L	Composite	Every Other Month ^a	Annually
Total Suspended Solids	mg/L	Composite	Every Other Month ^a	Annually
Total Nitrogen	mg/L	Composite	Every Other Month ^a	Annually

a. Sampling shall be conducted every other month during the first year the OWTS is in operation, semiannually during the second year the OWTS is in operation, and annual thereafter.

C. SEWAGE SOLIDS AND SLUDGE

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 Dischargers and be submitted to the Regional Board annually, when applicable.

D. REPORT SCHEDULE

An annual monitoring report shall be submitted to the Regional Board by **January 30th** for the January – December period of the previous reporting year. The annual report shall include:

1. A summary of all observations and activities completed for the inspection and/or maintenance of the OWTS and disposal system required by Order OWTS Design and Operation Specification C.7 and C.8;
2. An update of the contract with the service provider required by Order OWTS Design and Operation Specification C.5;
3. A copy of the lab data for the effluent monitoring including all the information required by Monitoring Provision A.7 of this MRP;
4. An assessment of the data required by Monitoring Provision A.9 of this MRP;
5. A record of when the septic tank was pumped, who pumped the septic tank, the ultimate destination of the pumped sewage solids and sludge, and the quantity of sewage solids and sludge that was pumped, as required in the Sewage Solids and Sludge Requirement of this MRP; and

6. The certification statement as required by Order Provision E.13.

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Court, Suite 100
San Diego, CA 92123
ATTN: Supervisor, Central San Diego County Groundwater Unit

Ordered by:


JOHN H. ROBERTUS
Executive Officer

Date: April 8, 2009