

**Order No. R1-2017-0014  
WDID No. 1B89051RSON**

**Waste Discharge Requirement For  
County of Sonoma  
and  
The Sea Ranch Association**

**for the  
Sonoma County Service Area 41, Zone 2;  
Sea Ranch Association Onsite Wastewater Management Zone**

**Sonoma County**

The following Dischargers are subject to waste discharge requirements as set forth in this Order:

**Table 1. Discharger Information**

<b>Dischargers</b>	County of Sonoma and The Sea Ranch Association
<b>Name of Facility</b>	Sonoma County Service Area 41, Zone 2; Sea Ranch Association Onsite Wastewater Management Zone (or "Zone")
<b>Facility Address</b>	35600 Verdant View Drive / P.O. Box 16
	The Sea Ranch, CA 95497

The management of waste discharges from within the Sonoma County Service Area 41, Zone 2; Sea Ranch Association Onsite Wastewater Management Zone are subject to waste discharge requirements as set forth in this Order:

**Table 2. Discharge Location**

<b>Discharge Point</b>	<b>Effluent Description</b>	<b>Discharge Point Latitude</b>	<b>Discharge Point Longitude</b>	<b>Receiving Water</b>
Various	Onsite Wastewater Treatment Systems (OWTS)	Various	Various	Groundwater

IT IS HEREBY ORDERED, to meet the provisions contained in division 7 of the Water Code (commencing with section 13000) and regulations adopted thereunder, the Dischargers shall comply with the requirements in this Order.

I, Matthias St. John, 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, North Coast Region, on May 18, 2017.

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Matthias St. John,  
Executive Officer

**I. FACILITY INFORMATION**

The following Dischargers are subject to waste discharge requirements as set forth in this Order:

**Table 3. Facility Information**

<b>Dischargers</b>	The County of Sonoma and the Sea Ranch Association
<b>Name of Facility</b>	Sonoma County Service Area 41, Zone 2; Sea Ranch Association Onsite Wastewater Management Zone
<b>Facility Address</b>	35600 Verdant View Drive
	The Sea Ranch, CA 95497
	Sonoma County
<b>Facility Contact, Title, and Phone</b>	Randy Burke, Director of Works, (707) 785-2411
<b>Mailing Address</b>	P.O. Box 16, , The Sea Ranch, CA 95497
<b>Type of Facility</b>	Onsite Wastewater Management Zone
<b>Facility Design Flow</b>	Not applicable

**II. FINDINGS**

The California Regional Water Quality Control Board, North Coast Region (hereinafter Regional Water Board), finds:

**A. Basis and Rationale for Requirements.** The Regional Water Board developed the requirements in this Order based on information provided by The Sea Ranch Association, discharge monitoring data, and other available information. Attachments A and B are hereby incorporated into this Order.

**B. Background and Facility Description.** The community of The Sea Ranch is a 3,853-acre development that consists primarily of second homes located along the northern Sonoma County Coast. The total population of the development varies from a low of approximately 1,318 full-time residents to a high of 4,403 seasonal occupants. A maximum number of 2,929 lots are allowed for development as per the Sea Ranch Precise Development Plan. Lots within the development are served by either a publicly owned and operated wastewater treatment plant or an onsite wastewater treatment system (OWTS). A total of 1,558 lots in the development were designated as being approved for development with the use of an individual or neighborhood OWTS.

On October 7, 1986, the Sonoma County Board of Supervisors adopted Resolution No. 86-2108 which describes its intent to establish an On-site Wastewater Management Zone pursuant to Health and Safety Code Sections 6950, et seq. which will be managed by the County of Sonoma, Service Area No.6, Sea Ranch, Zone 2. This Order regulates discharges from the OWTS located within the boundaries of the Zone (see Attachment A: Facility Map which depicts Zone boundaries). The types of OWTS operating in the zone include conventional septic tank leachfield systems

serving individual lots and neighborhood systems serving multiple lots. Neighborhood OWTS are made up of multiple septic tanks connected to a shared leachfield located in a common area of the development.

On August 16, 1988, the Sonoma County Board of Supervisors adopted *Sonoma County Ordinance No. 3904, Regulating the Use of Wastewater Disposal Systems in The Sea Ranch Wastewater Disposal Zone and Sonoma County Ordinance No. 3905, Establishing a Fee Schedule for On-Site Wastewater Management Services for The Sea Ranch Wastewater Disposal Zone*, (hereinafter "Zone Ordinances"). These Ordinances established a comprehensive program for managing and maintaining common areas for sewage disposal purposes and for maintenance, inspection, and monitoring of individual septic tank systems at The Sea Ranch.

On July 13, 1989, the Sonoma County Board of Supervisors approved an Operating Agreement (hereinafter "Operating Agreement") between the Sea Ranch Association and the County of Sonoma for management, maintenance, and administration of County Service Area (CSA) No. 6, Sea Ranch, Zone 2. The Sea Ranch Association is a nonprofit membership corporation of property owners of the Sea Ranch development. The Sea Ranch Association has fee interest in real property designated on the Sea Ranch development map as "common area" and "restricted common area." As per the Operating Agreement, the services provided by The Sea Ranch Association are to comply with water quality discharge standards adopted by the Regional Water Board. The term of the Operating Agreement has been automatically extended for successive one year periods since July 1, 1990, and is currently active.

On June 24, 1993, the Regional Water Board adopted Waste Discharge Requirements Order No. 93-67 for CSA No. 6, Sea Ranch, Zone 2 and The Sea Ranch Association, On-Site Wastewater Management Zone (Order No. 93-67). Later in 1993, CSA No. 6, Sea Ranch Zone 2 became known as CSA 41, Sea Ranch Zone 2 (hereinafter "Zone"). The County of Sonoma and The Sea Ranch Association (hereinafter Dischargers) have been managing the OWTS including the common sewage disposal areas pursuant to Order No. 93-67. Adoption of Order R1-2017-0014, will result in the rescission of Order No. 93-67 and replacement of that Order with Order R1-2017-0014.

Discharges from the two publicly owned and operated wastewater treatment plants serving the Sea Ranch development are regulated by the Regional Water Board under separate waste discharge requirements. The collection systems associated with the two publicly owned and operated wastewater treatment plants are currently enrolled under the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems (Sanitary Sewer Order).

The Dischargers oversee the operation and management of individual residential and neighborhood OWTS located within the boundaries of the Zone as per the Sonoma County Board of Supervisors adopted Zone Ordinances and Operating

Agreement. There are currently 1,201 individual and neighborhood OWTS serving the developed residential lots located within the boundaries of the Zone. Of this number, about 80 percent or 943 are conventional OWTS that consist of a septic tank followed by effluent dispersal to an individual or shared leachfield. The remaining 20 percent or 258 are non-conventional OWTS such as shallow trench pressure distributed systems, mound systems, at-grade systems, and aerobic treatment and filter pretreatment units. The design of the non-conventional OWTS was approved by Sonoma County under its Non-standard Sewage Disposal System Policy. The Zone currently consists of 1,539 total possible OWTS, barring future lot consolidations or lot splits. Undeveloped residential lots located within the Zone will be served by OWTS that are currently under construction or are planned for future construction. All OWTS serving residential lots located within the Zone, including existing and proposed, are subject to the requirements in this Order. There are currently 19 commercial waste OWTS located within the Zone serving non-residential lots. These commercial waste OWTS are under the direct jurisdiction of the Sonoma County Permit and Resource Management Agency and are not subject to the requirements of this Order.

- C. Legal Authorities.** This Order serves as Waste Discharge Requirements (WDRs) for discharges to land issued pursuant to section 13263 of the California Water Code (Water Code).
- D. Basin Plan.** As required by Water Code section 13263(a), these WDRs are crafted to implement the Water Quality Control Plan for the North Coast Region (Basin Plan), and in so doing, the Regional Water Board has taken into consideration the beneficial uses to be protected, the water quality objectives (both numeric and narrative) reasonably required for that purpose, other (including previous) waste discharges, the need to prevent nuisance, and the provisions of Water Code section 13241. The Basin Plan contains implementation plans and policies for protecting waters of the basin. 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.

Thus, beneficial uses applicable to area groundwater to be protected are as follows: municipal and domestic supply (MUN), agricultural water supply (AGR), industrial service supply (IND), industrial process supply (PRO), aquaculture (AQUA), and Native American culture (CUL).

The beneficial uses applicable to minor coastal streams to be protected are as follows: municipal and domestic supply (MUN), agricultural water supply (AGR), industrial service supply (IND), industrial process supply (PRO), groundwater recharge (GWR), freshwater replenishment (FRSH), navigation (NAV), water contact recreation (REC-1), non-contact water recreation (REC-2), commercial and sport fishing (COMM), cold freshwater habitat (COLD), wildlife habitat (WILD), rare,

threatened, or endangered species (RARE), migration of aquatic organisms (MIGR), spawning, reproduction, and/or early development (SPWN), and aquaculture (AQUA) Native American culture (CUL).

- E. California Water Code.** The control of waste discharge is established through effluent limitations and other requirements in waste discharge requirements. Water Code section 13260 establishes regulations associated with the prescription of waste discharge requirements and Water Code Chapter 7 (Water Code § 13500 et seq) establishes regulations associated with the prescription of reclamation requirements. “Waste” is defined in Water Code section 13050 subdivision (d).
- F. Title 27 Exemption.** The wastewater treatment, storage, and disposal activities described in this Order are exempt from the requirements of Consolidated Regulations for Treatment, Storage, Processing, or Disposal of Solid Waste in California Code of Regulations, title 27, division 2, Subdivision 1, section 20005, et seq. The activities are exempt from the requirements of title 27 so long as the activity meets, and continues to meet, all preconditions listed below. (Cal. Code Regs., tit. 27, § 20090.)
1. Sewage—Discharges of domestic sewage or treated effluent which are regulated by WDRs issued pursuant to California Code of Regulations, title 23, division 3, chapter 9, or for which WDRs have been waived, and which are consistent with applicable water quality objectives, and treatment or storage facilities associated with municipal wastewater treatment plants, provided that residual sludge or solid waste from wastewater treatment facilities shall be discharged only in accordance with the applicable State Water Board promulgated provisions of this division. (Cal. Code Regs., tit. 27, § 20090(a).)
  2. Wastewater—Discharges of wastewater to land, including but not limited to evaporation ponds, percolation ponds, or subsurface leach fields if the following conditions are met:
    - a. the applicable Regional Water Board has issued WDRs, reclamation requirements, or waived such issuance;
    - b. the discharge is in compliance with the applicable water quality control plan; and
    - c. the wastewater does not need to be managed according to, California Code of Regulations, title 22, division 4.5, chapter 11, as a hazardous waste. (Cal. Code Regs., tit. 27, § 20090(b).)
  3. Underground Injection—Discharges of waste to wells by injection pursuant to the Underground Injection Control Program established by the USEPA under the Safe Drinking Water Act, 42 US Code section 300(h), see Code of Federal Regulations title 40, Parts 144 to 146. (Cal. Code Regs., tit. 27, § 20090(c).)

4. Soil Amendments—Use of nonhazardous decomposable waste as a soil amendment pursuant to applicable best management practices, provided that Regional Water Boards may issue waste discharge or reclamation requirements for such use. (Cal. Code Regs., tit. 27, § 20090(f).)
5. Fully Enclosed Units—Waste treatment in fully enclosed facilities, such as tanks, or in concrete lined facilities of limited areal extent, such as oil water separators designed, constructed, and operated according to American Petroleum Institute specifications. (Cal. Code Regs., tit. 27, § 20090(i).)

**G. Antidegradation Policy.** State Water Board Resolution 68-16, the Statement of Policy with Respect to Maintaining High Quality Waters of California (hereafter the Antidegradation Policy) requires the disposal of waste be regulated to achieve the highest water quality consistent with the maximum benefit to the people of the state. The quality of some waters is higher than established by adopted policies and higher quality water shall be maintained to the maximum extent possible consistent with the Antidegradation Policy. The Antidegradation Policy requires the following:

1. Higher quality water will be maintained until it has been demonstrated to the state that any change will be consistent with the maximum benefit to the people of the state, will not unreasonably affect present and anticipated beneficial use of the water, and will not result in water quality less than prescribed in the policies.
2. Any activity that produces a waste and discharges to existing high quality waters will be required to meet Waste Discharge Requirements that will result in the best practicable treatment or control of the discharge necessary to assure pollution or nuisance will not occur, and the highest water quality consistent with the maximum benefit to the people of the state will be maintained.

This Order will offer reasonable protection of beneficial uses of groundwater with no discharge to surface water. This Order is consistent with Resolution No. 68-16 because it will result in a net benefit to water quality by improving and monitoring existing conditions currently impacted by this activity. The Order is designed to protect beneficial uses and does not promote or authorize the permanent lowering of high quality waters. This Order contains discharge prohibitions and receiving water limitations that are expected to maintain or improve water quality by addressing nutrients, bacteria and other pollutants in the waste streams.

Limited degradation of groundwater by some waste constituents is consistent with the maximum benefit to people of the State because the Order allows the continued discharge from residential OWTS located in an existing housing community, the Order accommodates economic or social development in the area, and the Order includes requirements that ensures that any degradation does not affect existing and anticipated future uses of the water and does not result in water quality less than established in standards. The Dischargers will develop and implement a self-monitoring program. Attachment B of this Order requires ongoing groundwater monitoring for nitrogen and coliform bacteria that ensures the Best Practicable

Treatment or Control is effective, water quality objectives will not be exceeded, and confirms that water quality will be maintained at a level that is protective of beneficial uses.

- H. Endangered Species Act.** This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under the California Endangered Species Act (Fish & Game Code § 2050 to 2097). The Dischargers are responsible for meeting all requirements of the applicable Endangered Species Act.
- I. Monitoring and Reporting.** Water Code sections 13267 authorizes the Regional Water Board to require technical and monitoring reports. The Monitoring and Reporting Program (MRP) establishes monitoring and reporting requirements to implement State requirements, and ensure protection of water quality. As such, the burden, including costs, of the monitoring bears a reasonable relationship to the need for that information and the benefits to be obtained from that information. The MRP is provided in Attachment B.
- J. California Environmental Quality Act (CEQA).** The discharges covered under this permit are exempt pursuant to California Code of Regulations, title 14, section 15301 (ongoing or existing projects). The Zone is part of an existing designated residential development, operation or minor alternation of an existing facility which involves minimum expansion or change in use beyond that previously existing. There is no expected change in the Zone's operation incident to reissuance of this Order.
- K. Notification of Interested Parties.** The Regional Water Board has notified the Dischargers 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.
- L. Consideration of Public Comment.** The Regional Water Board, in a public meeting, heard and considered all comments pertaining to the discharge.

### **III. DISCHARGE PROHIBITIONS**

- A.** The discharge of any waste not disclosed by the Dischargers or not within the reasonable contemplation of the Regional Water Board is prohibited.
- B.** Creation of pollution, contamination, or nuisance as defined by section 13050 of the Water Code is prohibited.
- C.** The presence of surfacing effluent from leachfield areas is prohibited.



- D. Any discharge of untreated or partially treated wastewater to (a) waters of the state or (b) land that creates pollution, contamination, or nuisance as defined in Water Code section 13050 is prohibited.
- E. The discharge of waste to the Pacific Ocean and its tributaries is prohibited.
- F. Discharges of waste that violate any narrative or numerical water quality objective that are not authorized by waste discharge requirements or other order or action by the Regional or State Water Board are prohibited.
- G. The maximum number of residential lots located in the Zone that are served by OWTS subject to this Order shall not exceed 1,558.

#### IV. SOLIDS DISCHARGE SPECIFICATIONS

- A. **Sludge Storage, Disposal, and Handling Requirements.** All collected sludges and other solid waste removed from liquid wastes shall be removed from screens, sumps, ponds, and tanks as needed to ensure optimal OWTS operation and disposed of in accordance with applicable federal and State regulations.

#### V. RECEIVING WATER LIMITATIONS

##### A. Groundwater Limitations

1. The collection, treatment, storage and disposal of wastewater shall not cause or contribute to levels of chemical constituents in groundwater that exceed the primary and secondary maximum contaminant levels specified in California Code of Regulations, title 22, Table 64431-A, Table 64444-A, Table 64449-A, Table 64449-B, and Table 64442.
2. The collection, treatment, storage and disposal of the wastewater shall not cause or contribute to levels of radionuclides in groundwater in excess of the limits specified in California Code of Regulations, title 22, Table 64443.
3. The collection, treatment, storage, and disposal of wastewater shall not cause groundwater to contain taste- or odor-producing substances in concentrations that cause nuisance or adversely affect beneficial uses.
4. The collection, treatment, storage, and disposal of wastewater shall not cause groundwater designated for agricultural supply to contain concentrations of chemical constituents in amounts that adversely affect its use for agriculture.
5. In groundwater used or potentially used for domestic and municipal supply (MUN), the collection, treatment, storage and disposal of the treated wastewater shall not cause the median concentration of coliform organisms over any 7-day period to exceed 1.1 Most Probable Number (MPN) per 100 milliliters or one colony per 100 milliliters.

## VI. SPECIFIC PROVISIONS

- A. Compliance with Local and State Regulations.** Prior to permitting a discharge to a new OWTS, the Dischargers shall certify that the siting, design and construction of the new OWTS is in compliance with all local and state standards and regulations pertaining to OWTS.
- B. Salt and Nutrient Management Plans.** If directed by the Regional Water Board Executive Officer pursuant to Water Code section 13267, the Dischargers shall prepare and submit a Salt and Nutrient Management Plan, to ensure that the overall impact of treated wastewater and/or water recycling projects does not degrade groundwater resources. Unless otherwise directed by the Regional Water Board Executive Officer, in lieu of developing an individual Salt and Nutrient Management Plan the Dischargers shall participate in a Regional Water Board's existing salt and nutrient management planning effort to meet the requirements of this provision.

## VII. GENERAL PROVISIONS

Failure to comply with provisions or requirements of this Order, or violation of other applicable laws or regulations governing discharges from the Zone, may subject the Dischargers to administrative or civil liabilities, criminal penalties, and/or other enforcement remedies to ensure compliance. Additionally, certain violations may subject the Dischargers to civil or criminal enforcement from appropriate local, state, or federal law enforcement entities. The Dischargers shall comply with the following provisions:

- A. Availability.** A copy of this Order and the associated MRP shall be maintained at the Sea Ranch Association On-Site Wastewater Disposal Zone premises and be available at all times to operating personnel.
- B. Enforcement.** The Dischargers shall operate and maintain the Zone as described in this Order. Violation of any requirements contained in this Order subject the Dischargers to enforcement action, including civil liability, under the Water Code.
- C. Severability.** Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.
- D. Change in Discharge.** The Dischargers shall promptly report to the Regional Water Board any material change in the character, location, or volume of the discharge.
- E. Change in Control or Ownership.** In the event of any change in control over the operation and management of the Zone, by way of the Zone Ordinance or Zone Agreement, the Dischargers shall notify the Regional Water Board of such changes in writing, and shall also notify the succeeding responsible party of the existence of this Order and current compliance status in writing. The succeeding responsible

party, in order to obtain authorization for discharges regulated by this Order, must apply in writing to the Executive Officer, requesting transfer of the Order. This request must include complete identification of the new responsible party, the reasons for the change, a copy of the revised Zone Ordinance or Zone Agreement and effective date of the change. Discharges conducted without submittal of this request will be considered discharges without waste discharge requirements, which are violations of the Water Code.

**F. Monitoring and Reporting.** The Dischargers shall comply with the MRP and any modifications to these documents as specified by the Regional Water Board Executive Officer. Chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Water Board, Division of Drinking Water, and shall conform to Division of Drinking Water guidelines. The Dischargers shall comply with the MRP in Attachment B of this Order and any future revisions thereto.

**G. Records Retention.** The Dischargers shall maintain records of all monitoring information, including calibration and maintenance records and all strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this Order for a period of at least three (3) years from the date of the sample, measurement, or report. This period may be extended by request of the Regional Water Board Executive Officer.

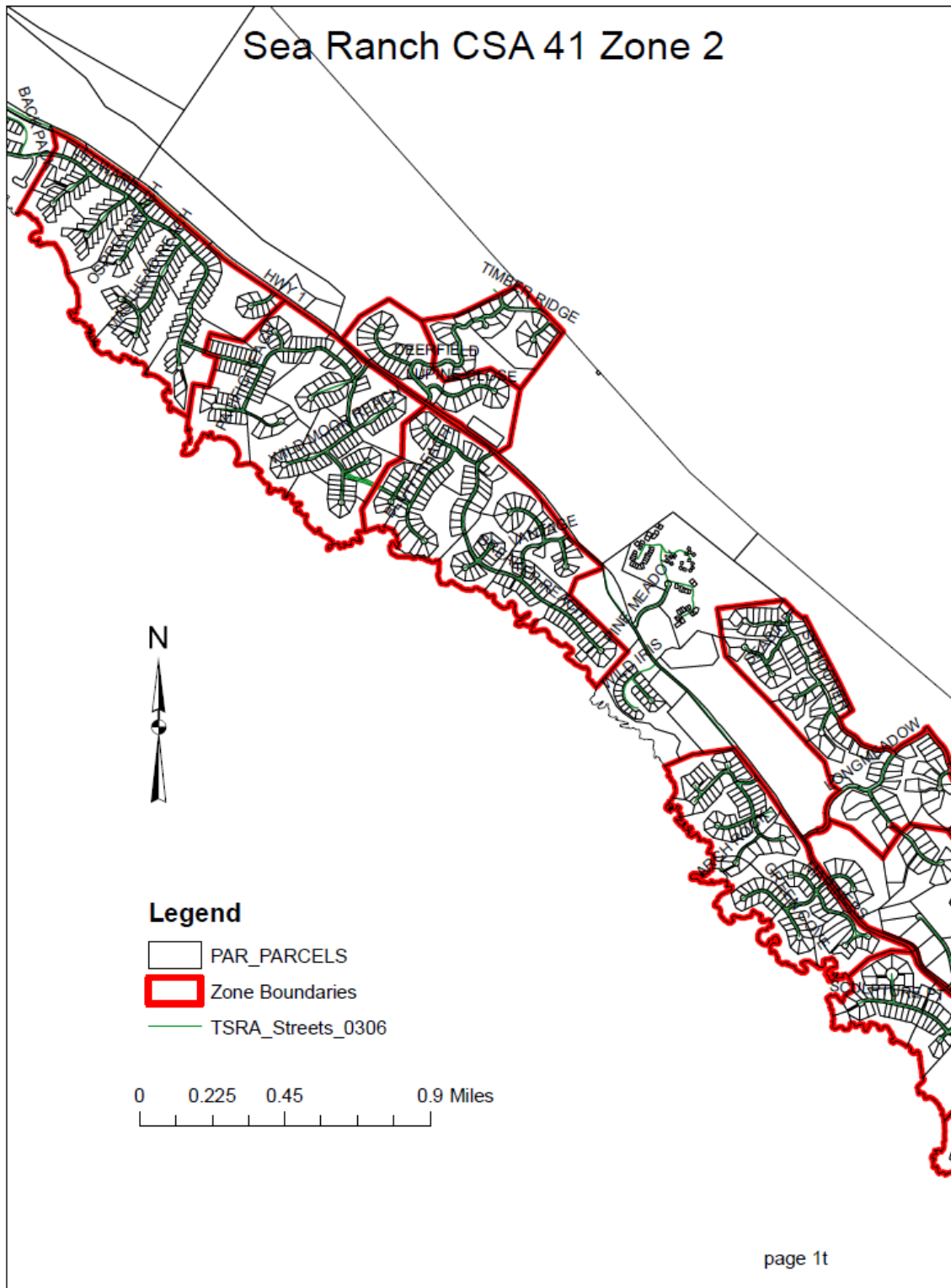
**H. Signatory Requirements.** All Report of Waste Discharge applications, reports, and other information submitted to the Regional Water Board shall be signed by a legally responsible officer.

1. For purposes of this provision, a legally responsible officer means:  
A legally responsible officer is either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the entity.
2. Any person signing a document under paragraph 1 or 2 of this provision shall make the following certification:

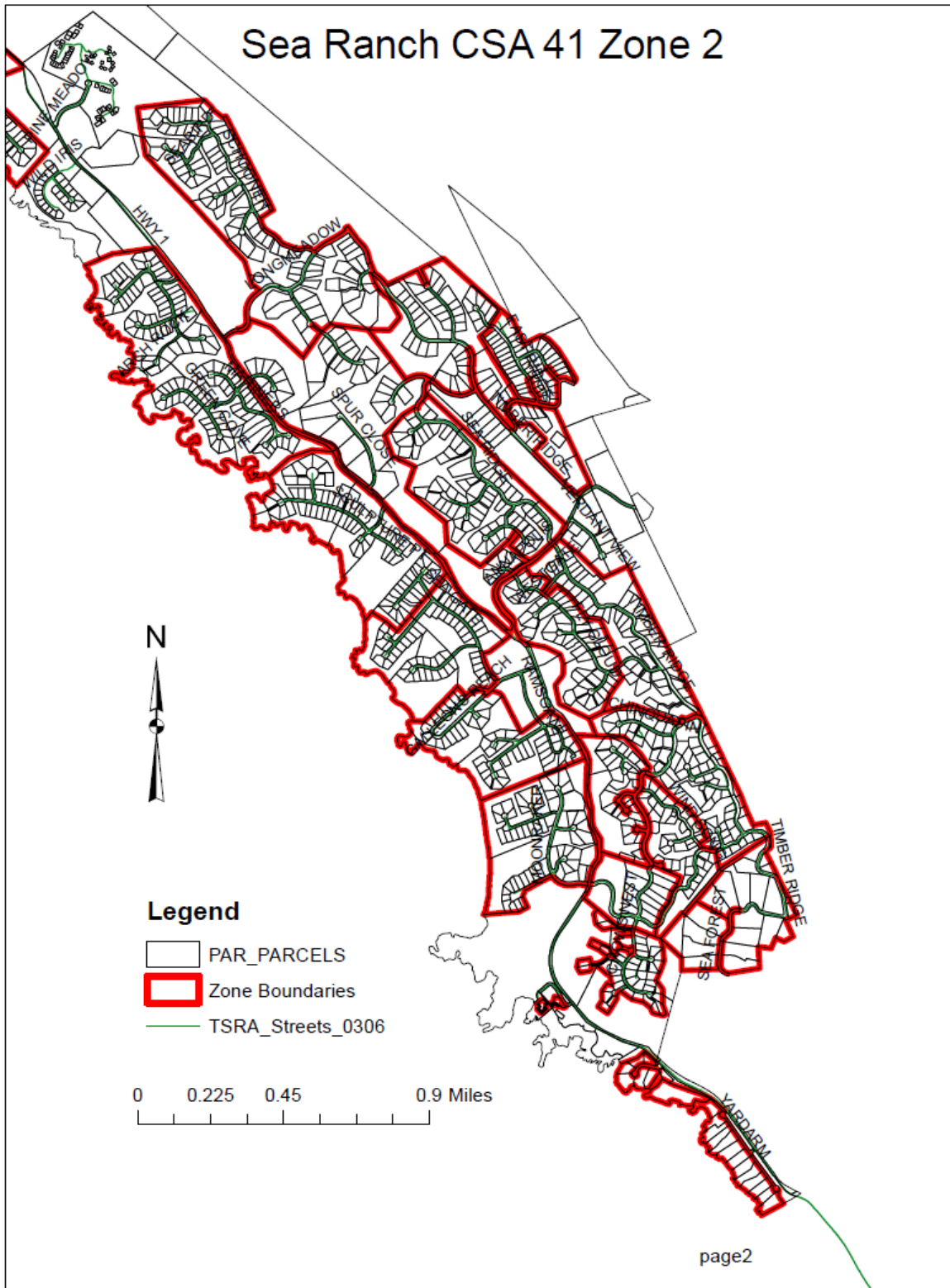
*"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage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

- I. Inspections.** The Dischargers shall permit authorized staff of the Regional Water Board the following:
1. Entrance to the developments common areas where the treatment, collection or management of waste occurs, or entrance to the premises in which any records required by this Order are kept;
  2. Access to inspect and copy any monitoring equipment or records required for compliance with terms and conditions of this Order; and
  3. Access to sample any monitoring location associated with the MRP.
- J. Noncompliance.** In the event the Dischargers are unable to comply with any of the conditions of this Order due to breakdown of waste treatment equipment, accidents caused by human error or negligence, or other causes such as acts of nature, the Dischargers shall notify Regional Water Board staff by telephone as soon as it or its agents have knowledge of the incident and confirm this notification in writing within five (5) business days of the telephone notification. The written notification shall include pertinent information explaining reasons for the noncompliance and shall indicate the steps taken to correct the problem and the dates thereof, and the steps being taken to prevent the problem from recurring.
- K. Revision of Requirements.** The Regional Water Board will review this Order periodically and may revise requirements when necessary.

**ATTACHMENT A - FACILITY MAP**



**ATTACHMENT A - CONTINUED FACILITY MAP**



## **ATTACHMENT B – MONITORING AND REPORTING PROGRAM**

Water Code section 13267 authorizes the Regional Water Quality Control Board (Regional Water Board) to require technical and monitoring reports. This MRP establishes monitoring and reporting requirements, which implement California regulations.

### **I. GENERAL MONITORING PROVISIONS**

- A.** If the Dischargers monitor any waste constituent more frequently than required by this Order the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.
- B.** Laboratories analyzing monitoring samples shall be certified by the State Water Resources Control Board, Division of Drinking Water, in accordance with the provision of Water Code section 13176, and must include quality assurance/quality control data with their reports.
- C.** Compliance and reasonable potential monitoring analyses shall be conducted using commercially available and reasonably achievable detection limits that are lower than the applicable effluent limitation or water quality objectives. If no minimum level (ML) value is below the effluent limitation or water quality objective, the lowest ML shall be selected as the reporting level (RL).

### **II. MONITORING**

- A.** The Dischargers shall maintain an ongoing monitoring schedule for all residential OWTS located within the boundaries of the Zone. At a minimum, the monitoring activities shall include an inspection of gravity septic systems and effluent dispersal fields at least once every three years and inspection of pump distribution/alternative systems at least annually to observe and document any odors, evidence of surfacing wastewater, other signs of malfunction; and to determine the need for tank pumping or system repair.
- B.** The Dischargers shall develop and implement a water quality assessment program to determine the general operational status of the residential OWTS located within the boundaries of the Zone, to evaluate the impact of these OWTS discharges, and to assess the extent to which groundwater and local surface water quality may be adversely impacted. The assessment program will include monitoring and analysis of water quality data as per the Attachment B-1, Water Quality Monitoring Program for the Zone, review of complaints, variances, failures, and any information resulting from inspections. The assessment may use existing water quality data from other monitoring programs and/or establish the terms, conditions, and timing for monitoring done by the Dischargers. At a minimum this assessment will include monitoring data for nitrates and pathogens, and may include data for other constituents which are needed to adequately characterize the impacts of OWTS

on water quality. Other monitoring programs for which data may be used include but are not limited to any of the following:

- Random well samples from a domestic well sampling program
  - Routine real estate transfer samples, if those are performed and reported
  - Review of public water system sampling reports done by a local agency or municipality responsible for the public water system
  - Water quality testing reports done at the time of new well development, if those are reported
  - Beach water quality testing data performed as part of Health and Safety Code section 115885
  - Data contained in the California Water Quality Assessment Database
  - Groundwater data collected as part of the Groundwater Ambient Monitoring and Assessment Program and available in the GeoTracker Database
- C. When measuring groundwater, the Dischargers shall measure and monitor the elevation of water in all groundwater monitoring wells on a monthly basis. Reference datum shall be ground surface at the well.
- D. Groundwater well water measurements and groundwater constituent sampling are to be the primary indicator of achievement of applicable water quality objectives. Supplemental and supportive surface water monitoring may be conducted on a regular basis to support findings of causative factors of contamination within groundwater monitoring wells. The Discharger may request the number and locations of surface water monitoring stations be modified for the Regional Water Board Executive Officer's review and approval.
- E. Existing and proposed new groundwater wells within the Zone are identified on Attachment B-2.

### III. REPORTING REQUIREMENTS

- A. **Annual Report.** The Dischargers shall submit an annual report to the Regional Water Board for each calendar year. The report shall be submitted by March 1 of the following year. The Dischargers shall submit the annual report in accordance with the following requirements:
1. The Dischargers shall arrange all reported data in a tabular format. The data shall be summarized to clearly illustrate whether the Zone is operating in compliance with Order requirements.
  2. The Dischargers shall attach a cover letter to the annual report. The information contained in the cover letter shall clearly identify:



- a. The name of the Zone;
  - b. Dischargers names and addresses;
  - c. WDID number;
  - d. Applicable period of monitoring and reporting;
  - e. Violations of the Order (identified violations must include a description of the requirement that was violated and a description of the violation);
  - f. Corrective actions taken or planned; and
  - g. The proposed time schedule for corrective actions.
3. The annual report shall be submitted to the Regional Water Board, signed and certified as required by the General Provisions, to: [NorthCoast@waterboards.ca.gov](mailto:NorthCoast@waterboards.ca.gov) or on disk (CD or DVD) in a Portable Document Format (PDF) file in lieu of paper-sourced documents. The guidelines for electronic submittal of documents can be found on the Regional Water Board website at: <http://www.waterboards.ca.gov/northcoast>.
- B. Reporting Protocols.** The Dischargers shall report with each sample result the applicable ML, the RL and the current MDL, as determined by the procedure in Standard Methods.
1. The Dischargers shall report the results of analytical determinations for the presence of chemical constituents in a sample using the following reporting protocols:
    - a. Sample results greater than or equal to the reported ML shall be reported as measured by the laboratory (i.e., the measured chemical concentration in the sample).
    - b. Sample results less than the RL, but greater than or equal to the laboratory's MDL, shall be reported as "Detected, but Not Quantified," or DNQ. The estimated chemical concentration of the sample shall also be reported.
    - c. For the purposes of data collection, the laboratory shall write the estimated chemical concentration next to DNQ as well as the words "Estimated Concentration" (may be shortened to "Est. Conc."). The laboratory may, if such information is available, include numerical estimates of the data quality for the reported result. Numerical estimates of data quality may be percent accuracy (a percentage of the reported value), numerical ranges (low to high), or any other means considered appropriate by the laboratory.
    - d. Sample results less than the laboratory's MDL shall be reported as "Not Detected," or ND.
    - e. Dischargers are to instruct laboratories to establish calibration standards so that the ML value (or its equivalent if there is differential treatment of samples relative to calibration standards) is the lowest calibration standard. At no time are the Dischargers to use analytical data derived from extrapolation beyond the lowest point of the calibration curve.

### C. Spill Notification

1. **Spills and Unauthorized Discharges.** Information regarding all spills and unauthorized discharges of wastewater associated with residential OWTS located within the boundaries of the Zone that may endanger health or the environment shall be provided orally to the Regional Water Board<sup>1</sup> within 24 hours from the time the Dischargers become aware of the circumstances and a written report shall also be provided in accordance with Provision J of this Order within five (5) days of the time the Dischargers become aware of the circumstances of the spill or unauthorized discharge.

Information to be provided verbally to the Regional Water Board includes:

- a. Name and contact information of caller;
- b. Date, time and location of spill occurrence;
- c. Estimates of spill volume, rate of flow, and spill duration, if available and reasonably accurate;
- d. Surface water bodies impacted, if any;
- e. Any adverse impacts observed, if any;
- f. Cause of spill, if known at the time of the notification;
- g. Cleanup actions taken or repairs made at the time of the notification; and
- h. Responding agencies.

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<sup>1</sup> The contact number of the Regional Water Board during normal business hours is (707) 576-2220. After normal business hours, spill reporting to CalOES will satisfy the 24 hour spill reporting requirement for the Regional Water Board. The contact number for spill reporting for the CalOES is (800) 852-7550.

Attachment B-1

SEA RANCH WASTE DISPOSAL ZONE NO. 2

WATER QUALITY MONITORING  
AND  
SEPTIC SYSTEM INSPECTION PROGRAM

Prepared By

Questa Engineering Corporation  
1220 Brickyard Cove Road #206  
P.O. Box 356  
Point Richmond, California 94807

April 1989

Attachment B-1

TABLE 1  
 SURFACE WATER QUALITY SAMPLING STATIONS

Station ID	Watershed ID	Sea Ranch Unit No.	Location Description
S01	B	31	Drainage immediately east of Crow's Nest Drive; sample at Highway #1 culvert, upstream side, approximately 300-feet north of Stone Crop Reach, at milepost 50.33
S02	D	1	Drainage to Black Beach, approximately 400-feet northwest of Black Point Beach Road; sample at bluff discharge.
S03	E	1	Drainage to Black Beach midway between Bowsprit Close and Spindrift Close; sample at wooden footbridge.
S04	F	3	Drainage to Black Beach immediately south of Spindrift Close; sample at 24-inch CMP, upstream of bluff trail.
S05	G	3	Drainage to north end of Black Beach, immediately <del>North</del> of Spindrift Close; sample downstream of wooden footbridge.
S06	H	7	Drainage immediately south of Sea Meadow Drive; sample below trail crossing at bluff discharge.
S07	<del>East</del> I	17	Drainage immediately <del>South</del> <sup>North</sup> of Whaler's Reach; sample near bluff discharge at trail crossing.
S08	J	17	Drainage parallel to Public Access Trail north of Clipper's Reach; sample at trail crossing near bluff discharge.
S09	J	20	Upstream control for Station S08; sample open drainage approximately 75-feet west of intersection of Sea Ridge Road and Seaward Reach.
S10	K	17	Drainage immediately north of Navigator's Reach; sample at bluff discharge.

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Attachment B-1

T A B L E 1 (Cont'd.)

Station ID	Watershed ID	Sea Ranch Unit No.	Location Description
S11	K	20	Upstream control for Station S10, immediately downhill from air strip; sample at inlet side of culvert on Sea Ridge Road; approximately 500-feet southeast of Conifer Close.
S12	L	17/18	Drainage immediately south of Mariner's Drive; sample at bluff discharge.
S13	M	18	Drainage on south side of Headlands Reach; sample at inlet to culvert on southeast side of intersection of Headlands Reach and Green Cove Drive.
S14	M	18	Drainage immediately south of Arch Rock Road; sample at bluff discharge.
S15	N	18	Drainage on north side of Arch Rock Road; sample at footbridge just above discharge to beach.
S16	Q	21	Drainage south of Vantage Road; sample at rock check dam below wooden footbridge on west side of Breaker Reach.
S17	Q	21	Upstream control for Station S16; sample at Highway #1 culvert, upstream side, at mile-post 54.30.
S18	R	21	Drainage north of Vantage Road; sample at outlet of 42-inch culvert at foot path, west of Breaker Reach.
S19	R	21	Upstream control for Station S18; sample at inlet side of culvert at intersection of Vantage Road and Greenvale Close.
S20	R	21	Upstream control for Station S18; sample at inlet side of culvert under Green Vale Close; approximately 400-feet north of Vantage Road.
S21	S	21	Drainage immediately north of Lands End Close; sample near bluff trail, above discharge to beach.

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T A B L E 1 (Cont'd.)

Station ID	Watershed ID	Sea Ranch Unit No.	(Location Description)
<del>S21</del> S23	S	21	Upstream control for Station S21; sample at Highway #1 culvert, upstream side, at milepost 54.78.
<del>S22</del> S22	S	27	Drainage south of Bluff Reach; sample near bluff trail above discharge to beach. <i>MARK AT END OF CUL-DE-SAC</i>
S24	T	24	Drainage north of Wild Moor Reach; sample at bluff discharge alongside Public Access Trail.
S25	U	24	Drainage south of Pacific Reach; sample at outlet side of twin culverts at Piper's Reach.
S26	U	24	Upstream control for Station S26; sample at culvert on Pacific Reach.
S27	V	28	Drainage south of Masthead Reach; sample at wooden footbridge on beach access trail south of Walk-On Beach.
<del>S28</del>	V	28	Upstream control for Station S27; sample at Highway #1 culvert, upstream side, at milepost 55.76
S29	W	28	Drainage between Masthead Reach and Osprey Reach; sample near bluff trail above discharge to beach immediately west of Osprey Reach.
S30	X	28	Drainage between Osprey Reach and Seal Rock Reach; sample at downstream side of wooden foot bridge on bluff trail.
S31	X	28	Upstream control for Station S30; sample at Highway #1 culvert, upstream side, at milepost 56.08.
S32	Y	28	Drainage between Seal Rock Reach and Sea Pine Reach; sample at rock rip-rap, immediately downstream of Public Access Trail.
S33	Y	28	Upstream control for Station S32; sample at Highway #1, upstream side, approximately 700-foot north of Leeward Spur. <i>MILEPOST MARKER 56.25</i>

Attachment B-1

TABLE 1 (Cont'd.)

Station ID	Watershed ID	Sea Ranch Unit No.	Location Description
S34 /	Y	28	Drainage on north side of Sea Pine Reach; sample at wooden footbridge on Public Access Trail.
S35 /	Y	28	Upstream control for Station S34; sample at upstream side of culvert on Leeward Road; approximately 500-feet north of Sea Pine Reach. 39954 LEEWARD ON LEFT SIDE OF DRIVEWAY.

Attachment B-1

TABLE 2  
 GROUNDWATER MONITORING STATIONS

Station ID	Watershed ID	Sea Ranch Unit No.	Location Description
G01	B	1	Common Area between Black Point Beach Road and Brigantine's Reach.
G02	H	7	Common Area between Galleon's Reach and Sea Meadow Drive.
G03	H	7	Common Area between Galleon's Reach and Sea Meadow Drive.
G04	H	7	Common Area between Sea Meadow Drive and Whaler's Reach.
G05	I	17	Common Area west of Clipper's Reach.
G06	M	30	Common Area <sup>South</sup> <del>North</del> east of intersection of Highway #1 and Long Meadow Road.
G07	N	18	Common Area between Cabrillo Close and Albatross Reach.
G08	N	18	Common Area north of Albatross Reach.
G09	W	28	Common Area immediately north of Walk-On Beach and Masthead Reach.
G10	Y	34	Common Area immediately north of Public Access Trail at north end of Unit 28.



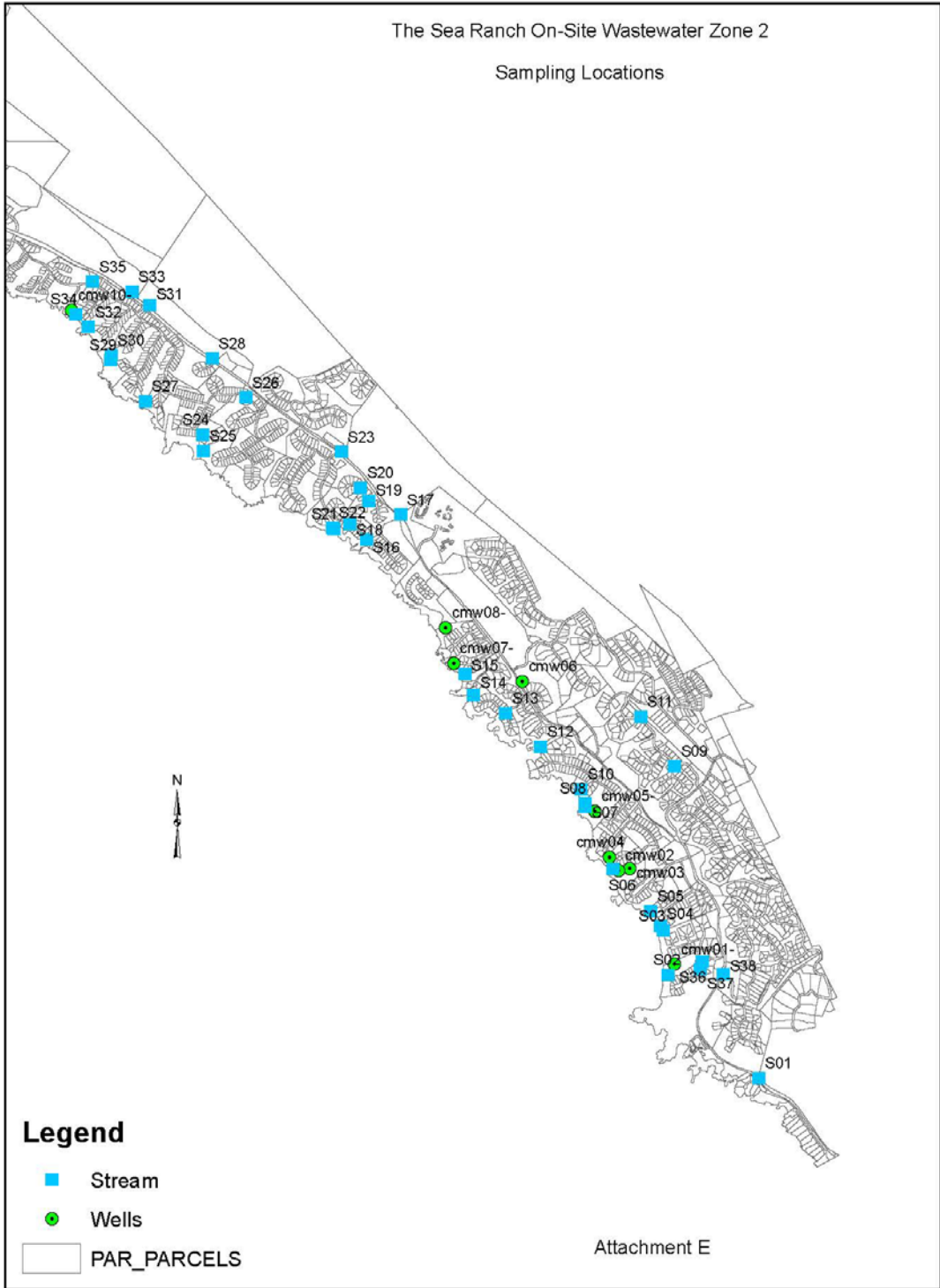
Attachment B-1

T A B L E 3  
 BASELINE MONITORING SCHEDULE

Sampling Stations	Parameters	Units of Measure	Monthly	Sampling Frequency	
				Single Wet Season Sample (Jan-Feb)	Single Dry Season Sample (May-June)
<u>Surface Water</u>					
S-1 Through S-35	Total Coliform	MPN/100ml		X	X
	Fecal Coliform	MPN/100ml		X	X
	Nitrate	mg/l (as NO <sub>3</sub> )		X	X
<u>Groundwater</u>					
G-1 Through G-10	Total Coliform	MPN/100ml		X	X
	Fecal Coliform	MPN/100ml		X	X
	Nitrate	mg/l (as NO <sub>3</sub> )		X	X
	Depth to Ground-water.	Inches*	X		

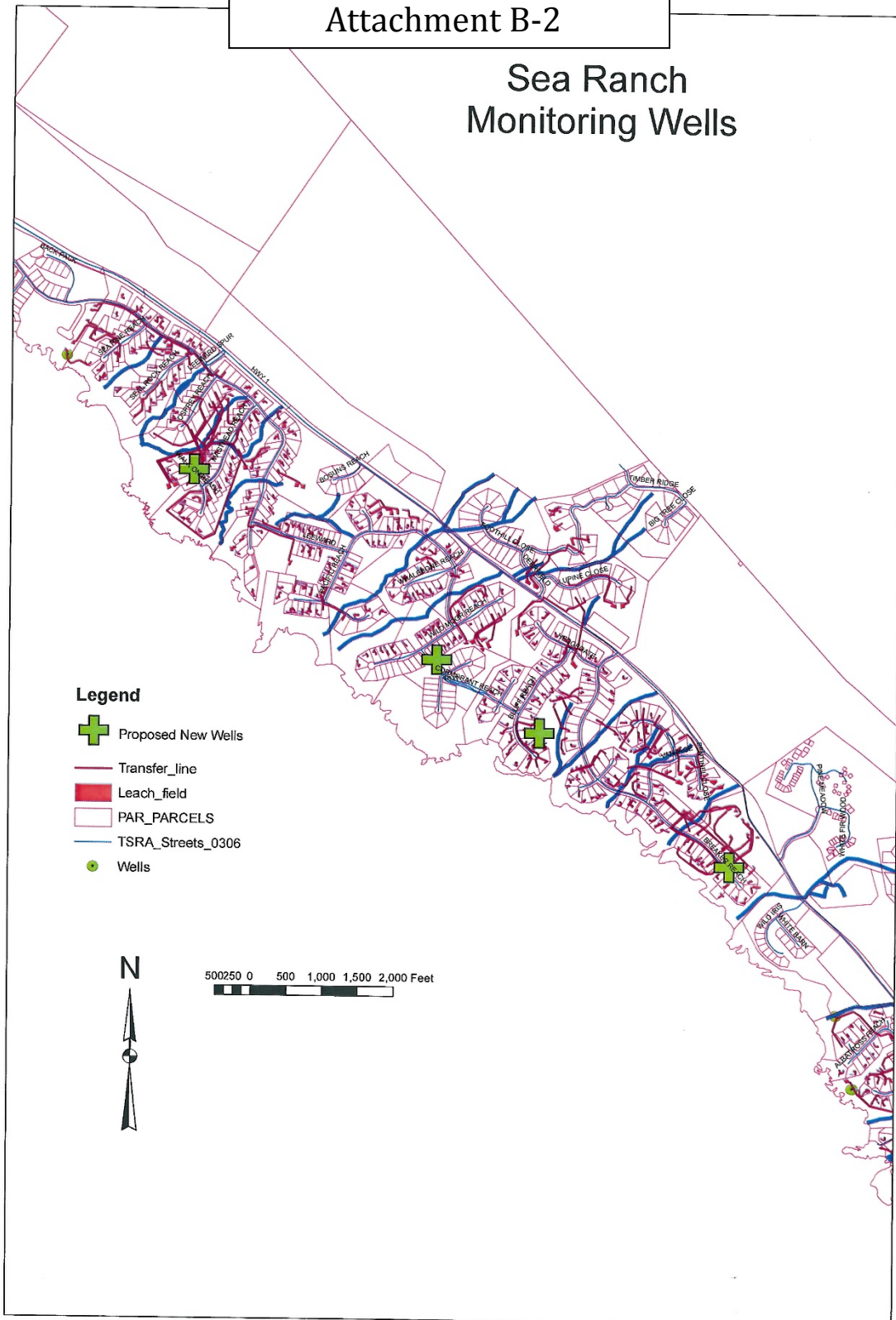
\* Referenced to ground surface at the monitoring well.

Attachment B-1



Attachment B-2

Sea Ranch  
Monitoring Wells



Attachment B-2

Sea Ranch  
Monitoring Wells

