CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1
TO
ORDER NO. 97- 03

AN ADDENDUM TO ADD THE SOLANA BEACH HYDROLOGIC AREA
TO
WASTE DISCHARGE AND WATER RECYCLING REQUIREMENTS
FOR THE PRODUCTION AND PURVEYANCE
OF RECYCLED WATER

FOR THE
CITY OF SAN DIEGO
NORTH CITY WATER RECLAMATION PLANT
SAN DIEGO COUNTY

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

1. On January 9, 1997, this Regional Board adopted Order No. 97-03, Waste Discharge and Water Recycling Requirements for the Production and Purveyance of Recycled Water for the City of San Diego North City Water Reclamation Plant (NCWRP), authorizing purveyance of recycled water to the following hydrologic areas (HA): Miramar Reservoir HA (906.1); the western portion of the Poway HA (906.2); Scripps HA (906.3); Miramar HA (906.4); Tecolote HA (906.5); and Mission San Diego HA (907.11).

2. By letter dated January 24, 2003, the City requested modification of Order No. 97-03 to allow purveyance of recycled water from the NCWRP to additional hydrologic areas to be serviced after completion of its Black Mountain Ranch Phase 1 Project. The City has applied to the State Water Resources Control Board's Water Recycling Construction Program for grant funds for the project. This addendum is a prerequisite to final disbursement of those funds. As part of the Black Mountain Ranch Phase 1 Project, the City plans to distribute recycled water produced at the NCWRP to an additional hydrologic area, Solana Beach HA (905.10).

3. The requirements contained in Order No. 97-03 as modified by this Addendum are consistent with the policies and the implementation programs described in the Water Quality Control Plan for the San Diego Basin (9) because the use of the tertiary treated wastewater from NCWRP in the Solana Beach HA will not cause or contribute to exceedances of the water quality objectives of the Solana Beach HA.

4. By letter dated November 21, 2002, the City submitted a copy of its Updated Water Reclamation Master Plan dated December 2000. The document provides an updated review of the City's existing recycled water program and plans for its expansion to meet the City's beneficial reuse goals. According to the City, an Environmental Impact Report was prepared and certified as compliant with the California Environmental Quality Act (CEQA) by the City Council in November 2002.

5. Olivenhain Municipal Water District (OMWD) has expressed interest in purchasing recycled water produced at the NCWRP for purveyance within the Solana Beach HA. OMWD is currently authorized to distribute recycled water produced at 4-S Ranch Water Pollution Control Facility to the Solana Beach HA. OMWD must obtain revised waste discharge and water recycling requirements from the Regional Board prior to the distribution and use of recycled water produced at the NCWRP to the Solana Beach HA.

6. The issuance of waste discharge requirements for this discharge is exempt from the requirement of preparation of environmental documents under the California Environmental Quality Act [Public Resources Code, Division 13, Chapter 3, Section 21000 *et seq.*] in accordance with Section 13389 of the California Water Code.

7. According to Section 13383(e) of the California Water Code, the Regional Board may, upon application by any affected person, or on its own motion, review and revise waste discharge requirements.

8. The Regional Board has notified all interested parties of its intent to modify Order No. 97-03.

9. The Regional Board in a public hearing on June 11, 2003 heard and considered all comments pertaining to the modification of Order No. 97-03.

IT IS HEREBY ORDERED THAT Order No. 97-03 be modified as follows:

1. The following beneficial uses of ground water in the the Solana Beach HA (905.10) are added to Finding No. 7 of Order No. 97-03:

BENEFICIAL USES IDENTIFIED IN THE BASIN PLAN								
HYDROLOGIC AREAS AND SUBAREAS		FOOTNOTES	MUN	AGR	IND	PROC	FRSH	GWR
5.10	Solana Beach HA	B	•	•	•			

HA = Hydrologic Area
• = Existing Beneficial Use

Footnotes:

B These beneficial uses do not apply westerly of the easterly boundary of the right-of-way of Interstate Highway 5 and this area is excepted from the sources of drinking water policy. The beneficial uses for the remainder of the hydrologic area are as shown.

2. The following ground water quality objectives for the Solana Beach HA (905.10) are added to Finding No. 8 of Order No. 97-03:

BASIN PLAN GROUNDWATER WATER QUALITY OBJECTIVES														
(Concentrations not to be exceeded more than 10% of the time during any one year period)														
(mg/L or as noted)														
HYDROLOGIC AREAS AND SUBAREAS		FOOTNOTE	TDS	CL	SO4	% Na	N03	Fe	Mn	MBAS	B	TURB NTU	COL-OR UNITS	F
5.00	San Dieguito Hydrologic Unit													
5.10	Solana Beach HA	A	1500 F	500 F	500 F	60	45 F	0.85 F	0.15 F	0.5	0.75 F	5	15	1.0

Footnotes:

A The water quality objectives do not apply westerly of the easterly boundary of Interstate Highway 5. The objectives for the remainder of the hydrologic area are as shown.

F Detailed salt balance studies are recommended for this area to determine limiting mineral concentration levels for discharge. On the basis of existing data, the tabulated objectives would probably be maintained in most areas. Upon completion of the salt balance studies, significant water quality objective revisions maybe be necessary. In the interim period of time, projects of ground water recharge with water quality inferior to the tabulated numerical values may be permitted following individual review and approval by the Regional Board if such projects do not degrade existing ground water quality to the aquifers affected by the recharge.

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, San Diego Region on June 11, 2003.

JOHN H. ROBERTUS
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 2 TO ORDER NO. 93-03

WASTE DISCHARGE REQUIREMENTS
FOR THE
SAN VICENTE TREATMENT PLANT
RAMONA MUNICIPAL WATER DISTRICT
SAN DIEGO COUNTY

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

1. On February 1, 1993 this Regional Board adopted Order No. 93-03, **Waste Discharge Requirements for the San Vicente Treatment Plant, Ramona Municipal Water District, San Diego County.** Order No. 93-03 and addenda thereto established requirements for the discharge of up to 0.60 million gallons per day (MGD) treated wastewater via spray irrigation adjacent to the treatment plant. The Order also established requirements for the discharge of reclaimed water to Solk Ranch for irrigation of avocado groves.

2. Order No. 93-03 established the following effluent limitations for the San Vicente Treatment Plant:

EFFLUENT LIMITATIONS				
Constituent	Unit	30-day Average[1]	Daily Maximum[2]	12-Month Average[3]
Biochemical Oxygen Demand (BOD_5 @ 20° C)	mg/l	30	45	
Total Suspended Solids	mg/l	30	45	
pH	Within the limits of 6.0 to 9.0 at all times			
Total Dissolved Solids	mg/l		600	**
Chloride	mg/l		250	**
Manganese	mg/l		0.06	0.05
Iron	mg/l		0.4	0.3
Boron	mg/l		0.6	0.5
Coliform	MPN/100ml	*	*	
Turbidity	NTU	*	*	

1 The 30-day average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 day consecutive calendar day period.

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

3 The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during the previous 12 months.

* Effluent used for irrigation purposes shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) in its present form or as it may be amended.

** Not to exceed the 12-month running average concentration found in the potable water supplies distributed by the District for use in the San Diego Country Estates development. Compliance with this effluent limitation for any month shall be determined by the monthly average of the effluent compared to the average of the water supply results of the 12 previous months.

3. On September 28, 1994, Mr. Kevin Walsh, General Manager of Ramona Municipal Water District, hereinafter discharger, submitted a report of waste discharge (RWD) requesting an increase in flow limit up to 0.75 MGD and a relaxation of the total dissolved solids (TDS) effluent limitation to 750 milligrams per liter (mg/l) or 300 mg/l above the potable water supplies. In addition, the District requested that the chloride effluent limitation be relaxed to a 12-month average of 250 mg/l.

4. The San Vicente Treatment Plant and Solk Ranch are located in the Gower Hydrologic Subarea. The Basin Plan established the following water quality objectives for the Gower Hydrologic Subarea:

Basin Plan Water Quality Objectives		
CONSTITUENT	Concentration not to be exceeded more than 10 percent of the time during any one year period. (mg/l or as noted)	
	Gower Hydrologic Subarea (907.23)	
	Surface Water	**Groundwater**
Total Dissolved Solids	300	600
Chloride	50	250
Percent Sodium	60%	60%
Sulfate	65	250
Nitrate (as NO_3)	----	5
Nitrogen and Phosphorus	*	----
Iron	0.3	0.3
Manganese	0.05	0.05
Methylene Blue Active Substances (MBAS)	0.5	0.5
Boron	1.0	0.5
Odor	None	None
Turbidity	20 NTU	5 NTU
Color	20 Units	15 Units
Fluoride	1.0	1.0

* Concentrations of nitrogen and phosphorus, by themselves or in combination with other nutrients, shall be maintained at levels below those which stimulate algae and emergent plant growth. Threshold total phosphorus (P) concentrations shall not exceed 0.05 mg/l in any stream at the point where it enters any reservoir or lake, nor 0.025 mg/l in any reservoir or lake. A desired goal in flowing waters appears to be 0.1 mg/l total P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds, however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1 shall be used.

5. The RWD noted in Finding No. 3 did not contain sufficient technical information to conclude that the proposed effluent limits would be consistent with the Basin Plan. The Basin Plan specifies that the Regional Board shall establish effluent limitations at levels that are no less than the quality of the area's water supply, but no greater than the Basin Plan ground water objective. This Addendum establishes a 12-month running average of 600 mg/l for TDS and 250 mg/l for chloride, which are consistent with the Basin Plan.

6. The Ramona Municipal Water District has approved a Negative Declaration on July 11, 1989, for an increase in flow up to 0.75 MGD in accordance with the California Environmental Quality Act (Public Resources Code Section 21000, et seq.). The project as approved by the Ramona Municipal Water District will not have a significant effect on water quality.

7. The Regional Board has considered all water resources related environmental factors associated with the proposed modification of waste discharge requirements.

8. The Regional Board has notified the Ramona Municipal Water District and all known interested parties of the intent to modify the waste discharge requirements for the San Vicente Treatment Plant.

9. The Regional Board in a public meeting heard and considered all comments pertaining to the proposed modification of waste discharge requirements.

IT IS HEREBY ORDERED, That:

1. Prohibition A.5 is replaced as follows:

    5. A 30-day average flowrate from the San Vicente Treatment Plant in excess of 0.75 MGD is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increased flow.

2. Discharge Specification B.1 is replaced as follows:

1. The discharge for landscape irrigation and other land disposal projects of a tertiary treated effluent containing pollutants in excess of the following effluent limitations is prohibited:

EFFLUENT LIMITATIONS				
Constituent	Unit	30-day Average[1]	Daily Maximum[2]	12-Month Average[3]
Biochemical Oxygen Demand (BOD_5 @ 20° C)	mg/l	30	45	
Total Suspended Solids	mg/l	30	45	
pH	Within the limits of 6.0 to 9.0 at all times			
Total Dissolved Solids	mg/l		650	600
Chloride	mg/l		275	250
Manganese	mg/l		0.06	0.05
Iron	mg/l		0.4	0.3
Boron	mg/l		0.6	0.5
Coliform	MPN/100ml	*	*	
Turbidity	NTU	*	*	

1 The 30-day average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 day consecutive calendar day period.

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

3 The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during the previous 12 months.

* Effluent used for irrigation purposes shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) in its present form or as it may be amended.

3. The following shall be inserted as Provision C.15:

15. All waste water treatment, storage and disposal facilities shall be completely constructed and operable prior to an increase in the 30-day average wastewater flow rate in excess of 0.60 MGD, and the complete facilities shall have adequate capacity for the full design flow of 0.75 MGD. A report from the design engineer certifying the adequacy of each component of the treatment, storage and disposal facilities shall be submitted by the discharger at least 120 days prior to flows at the San Vicente Treatment Plant exceeding 0.60 MGD. The certification report shall contain a requirement-by-requirement analysis based on acceptable engineering practices, of how the process and physical designs of the facilities will ensure compliance with the waste discharge requirements. The design engineer shall affix his signature and engineering license number to the certification report and should submit it prior to construction of the facilities. The increase in the discharge flow shall not be initiated until:

a. The certification report is received by the Regional Board Executive Officer;

b. The Regional Board Executive Officer has been notified of the completion of facilities by the discharger;

c. An inspection of the facilities has been made by staff of the Regional Board; and

d. The Regional Board Executive Officer has notified the discharger by letter that the discharge can be initiated.

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, San Diego Region, on June 8, 1995.

Arthur L. Coe
Executive Officer

KDN

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1 TO ORDER NO. 93-03

WASTE DISCHARGE REQUIREMENTS
FOR THE
SAN VICENTE TREATMENT PLANT
RAMONA MUNICIPAL WATER DISTRICT
SAN DIEGO COUNTY

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

1. On February 1, 1993 this Regional Board adopted Order No. 93-03, **Waste Discharge Requirements for the San Vicente Treatment Plant, Ramona Municipal Water District, San Diego County**. Order No. 93-03 established requirements for the discharge of up to 0.60 million gallons per day (MGD) treated wastewater via spray irrigation adjacent to the treatment plant. The Order also established requirements for the discharge of reclaimed water to Solk Ranch for irrigation of avocado groves.

2. At the time of adoption, the appropriate Title 22 level for the San Vicente Treatment Plant was still in discussion between the Regional Board staff and the Department of Health Services staff, therefore, Order No. 93-03 did not specify a Title 22 level for the plant. By letter dated May 19, 1993 from the Department of Health Services (DOHS) and a phone conversation with the DOHS staff on October 26, 1993, a decision was reached regarding the Title 22 level for the San Vicente Treatment Plant. The DOHS recommends that the quality of all reclaimed water used for irrigation of the orchard at the Solk Ranch shall be at least equivalent to that of secondary effluent and that the quality of all reclaimed water used for landscape irrigation shall be tertiary treated as specified by Section 60313(b), Division 4, Chapter 3, Title 22 of the California Code of Regulations.

3. The Regional Board has considered all water resource related environmental factors associated with the proposed modification of waste discharge requirements.

4. The Regional Board has notified the Ramona Municipal Water District and all known interested parties of the intent to modify the waste discharge requirements for the San Vicente Treatment Plant.

5. The Regional Board in a public meeting heard and considered all comments pertaining to the proposed modification of waste discharge requirements.

IT IS HEREBY ORDERED, That:

1. Discharge Specification B.5 is replaced as follows:

   Effluent used for irrigation purposes shall be treated to a level in conformance with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**).

   a. Reclaimed water used for the irrigation of the orchard at the Solk Ranch shall be of a quality at least equivalent to that of secondary effluent.

   b. Reclaimed water used for the irrigation of parks, playgrounds, schoolyards and other areas where the public has similar access or exposure shall be at all times an adequately disinfected, such that the median number of coliform organisms shall not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms shall not exceed 23 per 100 milliliters in any sample. In addition, the tertiary treated effluent shall not exceed an average operating turbidity of 2 turbidity units and shall not exceed 5 turbidity units more than 5 percent of the time during any 24-hour period.

I, Arthur L. Coe, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, San Diego Region, on November 15, 1993.

Arthur L. Coe
Executive Officer

KDN

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ORDER NO. 93-03

WASTE DISCHARGE REQUIREMENTS
FOR THE
RAMONA MUNICIPAL WATER DISTRICT
SAN VICENTE TREATMENT PLANT
SAN DIEGO COUNTY

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

1. On September 8, 1986, this Regional Board adopted Order No. 86-72, "Waste Discharge Requirements for the Ramona Municipal Water District, San Vicente Treatment Plant, San Diego County." Order No. 86-72, as amended by addenda adopted by this Regional Board, established requirements for the disposal of up to 0.60 million gallons per day (MGD) of treated wastewater via spray irrigation adjacent to the treatment plant. The Order also established requirements for the discharge of reclaimed water to Solk Ranch for irrigation of avocado groves.

2. An engineering report and a certification report submitted in accordance with Requirement No. 2 of Addendum No. 2 to Order No. 86-72 for a flow of 0.6 MGD at the San Vicente Treatment Plant were accepted by the Regional Board Executive Officer on March 27, 1992.

3. As a part of the FY 1992/93 Waste Discharge Order Update Program, Order No. 86-72 has been reviewed by the Regional Board staff in accordance with criteria established in the Administrative Procedures Manual adopted by the State Water Resources Control Board. As a result of this review, modifications have been incorporated into this Order. This Order, which supersedes Order No. 86-72, consolidates and makes changes to the Findings, Requirements, and Monitoring and Reporting Program of Order No. 86-72.

4. On December 17, 1981, the State Water Resources Control Board (State Board) adopted Order No. WQ 81-16, "In the Matter of the Petition of the Ramona Municipal Water District for Review of Addendum No. 1 to Order No. 79-17 of the San Diego Water Quality Control Board." Order No. WQ 81-16 concluded, in part, that effluent mineral limits for the San Vicente Treatment Plant should be set to match the 12-month running average quality of the water supplied to

the San Diego Country Estates development, provided that Ramona Municipal Water District had or was making satisfactory progress towards implementing a wastewater reclamation project for use of San Vicente Treatment Plant effluent.

5. The discharger constructed additional facilities to accommodate the average dry weather flow design capacity of 0.60 MGD. The plant expansion included the addition of a new headwork system, an additional oxidation ditch, two additional clarifiers, one additional filtration unit, new chlorine rapid mixer and contact chamber, and increased wet weather storage capacity. Thus, the total secondary treatment facilities will consist of the new headwork system, two oxidation ditches, four clarifiers, return activated sludge pump station, chlorine contact chamber, and sludge drying beds. In addition tertiary treatment will consist of filtration, demineralization (by reverse osmosis), and chlorination. A portion of the plant flow will be demineralized and blended with the remaining portion in such a manner that the final effluent concentrations of TDS, chloride, and sulfate do not exceed the 12-month running average found in the potable water supplies distributed by the Ramona Municipal Water District for use in the San Diego Country Estates development.

6. The discharger reports that 86 days of wet weather storage at a 30-day average dry weather flowrate of 0.60 MGD will be provided by two ponds at the treatment plant site with capacities of 126 acre-feet and 32 acre-feet. In addition, a 15 acre-foot pond on the Solk Ranch brings the total storage capacity to 94 days at 0.60 MGD.

7. The discharger reports that the reclaimed water will continue to be used by the Solk Ranch, with excess effluent, if any, being disposed of at the District's spray fields. In addition during the dry season, a limited amount of effluent (approximately 8,000 gpd average) will be used for street median landscape irrigation and construction purposes. San Diego Country Estates personnel will manually water plants and trees along medians as needed. Waste discharge requirements for short term uses of reclaimed water for construction purposes have been conditionally waived by Regional Board Resolution 83-21, "A Resolution Conditionally Waiving Adoption of Waste Discharge Requirements for Specific Types of Discharges."

8. The existing San Vicente Treatment Plant and disposal area is located in the southwest quarter section of Section 36, T13S, R1E, SBB&M, approximately 3.5 miles southeast of the town of Ramona in the Gower (7.23) Hydrologic Subarea (HSA) of the San Vicente (7.20) Hydrologic Area (HA) of the San

Diego (7.00) Hydrologic Unit (HU).

9. The Solk Ranch reclaimed water use area is located in the north half-section of the Section 36, T13S, R10E, SBB&M, approximately 3.5 miles east southeast of the town of Ramona in the Gower Hydrologic Subarea (7.23) of the San Vicente Hydrologic Area (7.20) of the San Diego Hydrologic Unit (7.00). The Solk Ranch is approximately one half mile north northeasterly of the San Vicente Treatment Plant.

10. The "Comprehensive Water Quality Control Plan Report, San Diego Basin (9)" (Basin Plan) was adopted by this Regional Board on March 17, 1975; and subsequently approved by the State Water Resources Control Board (State Board). Subsequent revisions to the Basin Plan have also been adopted by the Regional Board and approved by the State Board.

11. The Basin Plan established the following beneficial uses for the coastal surface water, the inland surface water, and the ground water of the Grower (7.23) HSA:

Beneficial Uses Identified in Basin Plan			
Beneficial Use		Grower Hydrologic Subarea (7.23)	
		Inland Surface Water	Groundwater
MUN	Municipal and Domestic Supply	X	X
AGR	Argriculture Supply	X	X
IND	Industrial Service Supply	X	
PROC	Industrial Process Supply	X	X
GWR	Groundwater Recharge		O
FRSH	Freshwater Replenishment		
POW	Hydropower Generation		
REC-1	Water Contact Recreation	X	
REC-2	Non-Contact Water Recreation	X	
WARM	Warm Fresh-Water Habitat	X	
COLD	Cold Fresh-Water Habitat	X	
WILD	Wildlife Habitat	X	
RARE	Preservation of Rare & Endangered Species		
SPWN	Fish Spawning	X	
SAL	Saline Water Habitat		
MAR	Marine Habitat		

Notes: O Potential beneficial uses.
X Existing beneficial uses.

12. The Basin Plan established the following water quality objectives for the Grower (2.31) HSA:

Basin Plan Water Quality Objectives		
CONSTITUENT	Concentration not to be exceeded more than 10 percent of the time during any one year period (mg/l or as noted)	
	Grower HSA (7.23)	
	Surface Water	Groundwater
Total Dissolved Solids	300	600
Chloride	50	250
Percent Sodium	60 %	60 %
Sulfate	65	250
Nitrate (as NO_3)	----	5
Nitrogen and Phosphorus	*	----
Iron	0.3	0.3
Manganese	0.05	0.05
Methylene Blue Active Substances	0.5	0.5
Boron	1.0	0.5
Odor	None	None
Turbidity	20 NTU	5 NTU
Color	20 Units	15 Units
Fluoride	1.0	1.0

Note: mg/l = milligrams per liter
NTU = Nephelometric turbidity units

* Concentrations of nitrogen and phosphorus, by themselves or in combination with other nutrients, shall be maintained at levels below those which stimulate algae and emergent plant growth. Threshold total phosphorus (P) concentrations shall not exceed 0.05 mg/l in any stream at the point where it enters any reservoir or lake, nor 0.025 mg/l in any reservoir or lake. A desired goal in flowing waters appears to be 0.1 mg/l total P. These values are not to be exceeded more than 10% of the time unless studies of the specific water body in question clearly show that water quality objective changes are permissible and changes are approved by the Regional Board. Analogous threshold values have not been set for nitrogen compounds, however, natural ratios of nitrogen to phosphorus are to be determined by surveillance and monitoring and upheld. If data are lacking, a ratio of N:P = 10:1 shall be used.

13. Based on the report of waste discharge (RWD) submitted in August 1990, the Regional Board Staff concluded that increasing the quantity of the Solk Ranch discharge from 0.45 to 0.60 MGD may adversely affect the beneficial uses of a small portion of the ground water basin extending from Solk Ranch to San Vicente Creek. The report of waste discharge indicated that the total dissolved solids (TDS) concentration in the ground water to be approximately 430 mg/l in the area directly down gradient from the Solk Ranch. Due to the discharge of reclaimed water, the ground water TDS concentration is expected to gradually increase over a period of time. The discharge may ultimately cause the Basin Plan ground water quality objective of 600 mg/l to be exceeded directly under Solk Ranch and for a short distance down gradient. However, irrigation with reclaimed water at

the TDS effluent limitations of Order No. 93-03 should not cause an increase in TDS in the ground water above that which would be caused by irrigation with imported potable water. There is one active well in the affected portion of the ground water basin located at 15942 Serra Street in Ramona. The discharger has offered the well owner an alternate water supply suitable to the owner as a mitigation measure for the anticipated increase in ground water TDS. This would mitigate the possible adverse affects on ground water beneficial uses caused by the discharge of reclaimed water at Solk Ranch.

14. Although the discharge may cause the Basin Plan ground water quality objective to be exceeded in a small portion of the basin as described in Finding 12 above, the ground water quality objective will not be exceeded in the large majority of the ground water basin. In the portion of the basin outside of the small affected area, all current beneficial uses of ground water will be protected. The reclaimed water will displace the use of imported potable water, and will be of the same quality as the imported potable water. Irrigation with reclaimed water at the TDS effluent limitations of Order No. 93-03 should not cause an increase in TDS in the ground water above that which would be caused by irrigation with imported potable water. In view of these factors, the discharge of reclaimed water to the areas authorized under this order is in conformance with SWRCB Resolution No. 68-16, **Statement of Policy with Respect to Maintaining High Quality of the Waters in California.** Any uses of reclaimed wastewater from the San Vicente Treatment Plant:

    a. Will have maximum benefit to the people of the State, because in the absence of reclaimed water, imported potable water would be used for irrigation of the reclaimed water use areas described in this Order;

    b. Will not unreasonably affect the beneficial uses of ground water in the Gower Hydrologic Subarea (7.23) of the San Vicente Hydrologic Area (7.20) of the San Diego Hydrologic Unit (7.00);

    c. Will not, for the majority of the basin, cause the ground water objectives of the Gower Hydrologic Subarea (7.23) of the San Vicente Hydrologic Area (7.20) of the San Diego Hydrologic Unit (7.00) to be exceeded. Irrigation using reclaimed water with the same mineral content as imported water would not increase the salt loading to the Subarea when compared to irrigation of the area with imported water if reclaimed water is not used.

15. The Basin Plan contains the following prohibitions which are

applicable to the discharge:

"Discharge of treated or untreated sewage or industrial wastewater, exclusive of cooling water or other waters which are chemically unchanged, to a watercourse, is prohibited except in cases where the water quality of said discharge complies with the receiving body water quality objectives."

"Discharging of treated or untreated sewage or industrial wastes in such manner or volume as to cause sustained surface flow or ponding on lands not owned or under control of the discharger is prohibited except in cases defined in the previous paragraph and in cases in which the responsibility for all downstream adverse effects is accepted by the discharger."

"The dumping or deposition of oil, garbage, trash or other solid municipal, industrial or agricultural waste directly into inland waters or watercourses or adjacent to the watercourses in any manner which may permit its being washed into the watercourse is prohibited."

"Dumping or deposition of oil, garbage, trash or other solid municipal, industrial or agricultural waste into natural or excavated sites below historic water levels or deposition of soluble industrial wastes at any site is prohibited, unless such site has been specifically approved by the Regional Board for that purpose."

16. This Order prescribes waste discharge requirements and reclamation requirements governing the production and use of reclaimed water, which the Regional Board has determined are necessary to protect the public health, safety and welfare pursuant to California Water Code, Division 7, Chapter 7, Sections 13500-13550 ("Water Reclamation Law"). This Order, which applies to the producer of reclaimed water, requires that the producer of the reclaimed water establish and enforce rules and regulations which apply to users, including purveyors, of the reclaimed water.

17. The Regional Board, in establishing the requirements contained herein, considered factors including, but not limited to, the following:

    (a) Beneficial uses to be protected and the water quality objectives reasonably required for that purpose;

    (b) Other waste discharges;

    (c) The need to prevent nuisance;

    (d) Past, present, and probable future beneficial uses of

the hydrologic subunits under consideration;

(e) Environmental characteristics of the hydrologic subunits under consideration;

(f) Water quality conditions that could reasonably be achieved through the coordinated control of all factors which affect water quality in the area;

(g) Economic considerations;

(h) The need for additional housing within the region; and

(i) The need to develop and use recycled water.

18. The Regional Board has considered all water resource related environmental factors associated with the proposed discharge of waste.

19. The Regional Board has notified the Ramona Municipal Water District and all known interested parties of the intent to prescribe waste discharge requirements for the proposed discharge.

20. The Regional Board in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the Ramona Municipal Water District, hereinafter discharger, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following requirements for the San Vicente Treatment Plant:

A. PROHIBITIONS

1. Discharges of wastes 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. The discharge of any radiological, chemical or biological warfare agent, or high-level radiological waste is prohibited.

3. 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.

4. The discharge of wastewater shall not:

   (a) Cause the occurrence of coliform or pathogenic organisms in waters pumped from the basins;

   (b) Cause the occurrence of objectionable tastes and odors in waters pumped from the basins;

   (c) Cause waters pumped from the basins to foam;

   (d) Cause the presence of toxic materials in waters pumped from the basins;

   (e) Cause the pH of waters pumped from the basins to fall below 6.0 or rise above 9.0;

   (f) Cause this Regional Board's objectives for the ground or surface waters of the Grower (7.23) Hydrologic Subarea as established in the Basin Plan to be exceeded;

   (g) Cause odors, septicity, mosquitos or other vectors, weed growth or other nuisance conditions in any inland watercourse;

   (h) Cause a surface flow recognizable as sewage in any inland watercourse; or

   (i) Cause a pollution, contamination or nuisance or

adversely affect beneficial uses of the ground or surface waters of the Grower (7.23) Hydrologic Subarea as established in the Basin Plan.

5. A maximum flowrate from at the San Vicente Treatment Plant in excess of 0.6 MGD is prohibited unless the discharger obtains revised waste discharge requirements for the proposed increased flow.

6. Odors, vectors, and other nuisances of sewage or sewage sludge origin beyond the limits of the treatment plant site or disposal area are prohibited.

7. The bypassing of wastewater to be used for landscape irrigation which does not meet the discharge specifications of this Order is prohibited.

8. The discharge of waste in a manner other than as described in the Findings of this Order is prohibited unless the discharger obtains revised waste discharge requirements that provide for the proposed changes.

9. The discharge of treated or untreated wastewater to San Vicente Creek or its tributaries is prohibited.

B. DISCHARGE SPECIFICATIONS

1. The discharge for landscape irrigation and other land disposal projects of a tertiary treated effluent containing pollutants in excess of the following effluent limitations is prohibited:

Effluent Limitations				
Constituent	unit	30-day Average[1]	Daily Maximum[2]	12-month Average[3]
Biochemical Oxygen Demand (BOD_5 @ 20°C)	mg/l	30	45	
Total Suspended Solids	mg/l	30	45	
PH		Within the	limits of 6.0 to 9.0	at all times
Total Dissolved Solids	mg/l		600	**
Chloride	mg/l		250	**
Manganese	mg/l		0.06	0.05
Iron	mg/l		0.4	0.3
Boron	mg/l		0.6	0.5
Coliform	MPN/100ml	*	*	
Turbidity	NTU	*	*	

1 The 30-day average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during any 30 consecutive calendar day period.

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

3 The 12-month average effluent limitation shall apply to the arithmetic mean of the results of all samples collected during the previous 12 months.

* Effluent used for irrigation purposes shall conform with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**) in its present form or as it may be amended.

** Not to exceed the 12-month running average concentration found in the potable water supplies distributed by the District for use in the San Diego Country Estates development. Compliance with this effluent limitation for any month shall be determined by the monthly average of the effluent compared to the average of the water supply results of the 12 previous months.

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

3. All waste treatment, containment and disposal facilities shall be protected against erosion, overland runoff, and other impacts resulting from a 100-year frequency 24-hour storm.

4. Collected screenings, sludge, other solids removed from

liquid wastes, and filter backwash shall be disposed in a manner approved by the Executive Officer. Before sludge is disposed of by means other than discharge to a landfill regulated under waste discharge requirements, used or supplied for use by others, the discharger shall submit written notification to the Executive Officer of the proposed disposal method or use. Such disposal, use or supply for use by others shall not be initiated until approved by the Executive Officer.

5. Effluent used for irrigation purposes shall be treated to a level in conformance with all applicable provisions of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**).

6. 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.

C. PROVISIONS

1. These WDRs hereby supersede Order No. 86-72, **Waste Discharge Requirements for the Ramona Municipal Water District, San Vicente Treatment Plant, San Diego County.** Order No. 86-72 is hereby rescinded when this Order becomes effective.

2. Neither the treatment nor the discharge of waste shall create a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.

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

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

5. 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.

6. 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.

7. 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; or

   (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.

8. This Order is not transferrable to any person except after notice to the Executive Officer. The Regional Board may require modification or revocation and reissuance of this Order to change the name of the discharger and incorporate such other requirements as may be necessary under the California Water Code. The discharger shall submit notice of any proposed transfer of this Order's responsibility and coverage to a new discharger as described under Reporting Requirement E.3.

9. 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.

10. 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:

    (a) Enter upon the discharger's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Order;

    (b) Have access to and copy, at reasonable times, any

records that must be kept under the conditions of this Order;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

(d) Sample or monitor at reasonable times, for the purposes of assuring compliance with this Order or as otherwise authorized by the California Water Code, any substances or parameters at any location.

11. The discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Chapter 3, Subchapter 14, Title 23 of the California Code of Regulations.

12. A copy of this Order shall be maintained at the San Vicente Treatment Plant and shall be available to operating personnel at all times.

13. 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.

14. The potable water supply shall not be used to supplement the reclaimed water supply except through an approved air gap. In other areas where the potable water supply is piped to premises where sewage is pumped, treated or reclaimed (e.g., sewage treatment plants or pumping stations, golf course, etc.) the potable water supply shall be protected at the property line in accordance with the State Department of Health Services' **Regulations Relating to Cross-Connections.**

D. RECLAIMED WATER USE PROVISIONS

1. If the Ramona Municipal Water District (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall have **Rules and Regulations for Reclaimed Water Users** governing the design and construction of reclaimed water use facilities and the use of reclaimed water. The Rules and Regulations shall be reviewed periodically and updated if necessary by the discharger/producer, and shall, at a minimum, contain the following provisions:

   a. Provisions implementing Title 22, Division 4, Chapter 3, **Wastewater Reclamation Criteria**, of the California Code of Regulations;

   b. Provisions implementing the State Department of Health Services (DOHS) **Guidelines For Use of Reclaimed Water** and **Guidelines for Use of Reclaimed Water for Construction Purposes** or measures, acceptable to DOHS, providing equivalent protection of public health;

   c. Provisions authorizing the Regional Board, the discharger/producer, or an authorized representative of these parties, upon presentation of proper credentials, to inspect the facilities of any reclaimed water user to ascertain whether the user is complying with the discharger/producer's rules and regulations;

   d. Provision for written notification, in a timely manner, to the discharger/producer by the reclaimed water user of any material change or proposed change in the character of the use of reclaimed water;

   e. Provision for submission of a preconstruction report to the discharger/producer by the reclaimed water user in order to enable the discharger/producer to determine whether the user will be in compliance with the discharger/producer's rules and regulations;

   f. Provision requiring reclaimed water users to designate a reclaimed water supervisor responsible for the reclaimed water system at each use area under the user's control. Reclaimed water supervisors should be responsible for the installation, operation, and maintenance of the irrigation system, enforcement of the discharger/producer's reclaimed water user rules and regulations, prevention of potential hazards, and

maintenance of the reclaimed water distribution system plans in "as built" form;

g. Provision authorizing the discharger/producer to cease supplying reclaimed water to any person who uses, transports, or stores such water in violation of the discharger/producer's rules and regulations;

h. Provision requiring notification and concurrence of the State Department of Health Services and the San Diego County Department of Health Services, Environmental Health Services for new reclaimed water users;

i. Provision requiring all windblown spray and surface runoff of reclaimed water applied for irrigation onto property not owned or controlled by the discharger or reclaimed water user shall be prevented by implementation of best management practices;

j. Provision requiring all reclaimed water storage facilities owned and/or operated by reclaimed water users to be protected against erosion, overland runoff, and other impacts resulting from a 100-year frequency storm, 24 hour storm;

k. Provision requiring all reclaimed water storage facilities owned and/or operated by reclaimed water users to be protected against 100 - year frequency peak stream flows as defined by the San Diego County flood control agency;

l. Provision for notification to reclaimed water users that the Regional Board may initiate enforcement action against any reclaimed water user who discharges reclaimed water in violation of any applicable discharge prohibitions prescribed by the Regional Board or in a manner which creates, or threatens to create conditions of pollution, contamination, or nuisance, as defined in Water Code Section 13050; and

m. Provision for notification to reclaimed water users that the Regional Board may initiate enforcement action against the discharger/ producer, which may result in the termination of the reclaimed water supply, if any person uses, transports, or stores such water in violation of the discharger/producer's rules and regulations or in a manner which creates, or threatens to create conditions of pollution, contamination, or

nuisance, as defined in Water Code Section 13050.

The revised rules and regulations shall be subject to the approval of the Regional Board Executive Officer; the State Department of Health Services; and the San Diego County Department of Health Services, Environmental Health Services. The revised rules and regulations shall be submitted to the Regional Board within 90 days of adoption of this Order by the Regional Board.

2. If the Ramona Municipal Water District (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall implement and enforce the approved rules and regulations for reclaimed water users. Use of reclaimed water by the discharger/producer shall be consistent with provisions a. through m. in item D.1 above. In addition, the discharger/producer shall submit an annual report certifying that the users have implemented the Rules and Regulations established by the discharger.

3. The Ramona Municipal Water District (discharger/producer) shall, within 90 days of the adoption of this order, develop and submit to the Regional Board a program of Best Management Practices (BMP) for the reclaimed water users governing the irrigation practices, management and maintenance to avoid runoff, ponding, and overspray. The discharger/producer shall oversee that the reclaimed water users have implemented the BMP upon approval of the BMP program by the Regional Board Executive Officer.

4. If the Ramona Municipal Water District (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall, within 90 days of the adoption of this Order, develop and submit to the Regional Board a program to conduct compliance inspections of reclaimed water reuse sites to determine the status of compliance with the approved rules and regulations for reclaimed water users. The discharger/producer shall implement the inspection program upon its approval by the Regional Board Executive Officer.

5. Reclaimed water shall not be supplied to parties who use, transport, or store such water in a manner which causes a pollution, contamination or nuisance, as defined by Section 13050 of the California Water Code.

6. Prior to using reclaimed water or supplying reclaimed water for use by other parties in any manner or in any area other than as described in the findings of this Order, the discharger/producer shall obtain proper authorization from this Regional Board.

E. REPORTING REQUIREMENTS

1. 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 which result in a material change in character, amount, or location of the waste discharge.

   (f) Any planned change in the regulated facility or activity which may result in noncompliance with this Order.

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

3. The discharger must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger. The notice must include a written agreement between the existing and new discharger containing a specific date for the transfer of this Order's responsibility and coverage between the current discharger and the new discharger. This agreement shall include an acknowledgement that the existing discharger is liable for violations up to the transfer date and that the new discharger is liable from the transfer date on.

4. The discharger shall comply with attached Monitoring and Reporting Program No. 93-03, and future revisions thereto as specified by the Executive Officer. Monitoring results shall be reported at the intervals specified in Monitoring and Reporting Program No. 93-03.

5. If a need for a discharge bypass is known in advance, the discharger shall submit prior notice and, if at all possible, such notice shall be submitted at least 10 days prior to the date of the bypass.

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

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

   (a) Any bypass from any portion of the treatment facility.

   (b) Any discharge of treated or untreated wastewater resulting from sewer line breaks, obstruction, surcharge or any other circumstances.

   (c) Any treatment plant upset which causes the effluent limitations of this Order to be exceeded.

8. The discharger shall submit a facility operations manual within 90 days of the adoption of this Order.

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

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

      (1) For a corporation - by a principal executive officer of at least the level of vice-president.

      (2) For a partnership or sole proprietorship - by a general partner or the proprietor, respectively.

      (3) For a municipality, state, federal or other public agency - by either a principal executive officer or ranking elected official.

   (b) All other reports required by this Order and other information required by the Executive Officer shall be signed by a person designated in paragraph (a) of this provision, or by a duly authorized representative of that person. An individual is a duly authorized representative only if:

      (1) The authorization is made in writing by a person described in paragraph (a) of this provision;

      (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity; and

      (3) The written authorization is submitted to the Executive Officer.

   (c) Any person signing a document under this Section shall make the following certification:

      "I certify under penalty of law that 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."

10. The discharger shall submit reports required under this Order, or other information required by the Executive Officer, to:

Executive Officer
California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd, Suite B
San Diego, California 92124-1331

F. NOTIFICATIONS

1. California Water Code Section 13263(g) states:

   "No discharge of waste into waters of the State, whether or not such discharge is made pursuant to waste discharge requirements, shall create a vested right to continue such discharge. All discharges of waste into waters of the State are privileges, not rights"

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 California Water Code provides that any person who intentionally or negligently violates any waste discharge requirements issued, reissued, or amended by this Regional Board is subject to a civil monetary remedy of up to 20 dollars per gallon of waste discharged or, if a cleanup and abatement order is issued, up to 15,000 dollars per day of violation or some combination thereof.

4. The California Water Code provides that any person failing or refusing to furnish technical or monitoring program reports, as required under this Order, or falsifying any information provided in the monitoring reports is guilty of a misdemeanor.

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

I, Arthur L. Coe, 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 February 1, 1993.

Arthur L. Coe
Executive Officer

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. 93-03
FOR THE
RAMONA MUNICIPAL WATER DISTRICT
SAN VICENTE TREATMENT PLANT
SAN DIEGO COUNTY

A. MONITORING PROVISIONS

1. Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge. All samples shall be taken at the monitoring points specified in this Order and, unless otherwise specified, before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Executive Officer.

2. Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to ensure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ±5 percent from true discharge rates throughout the range of expected discharge volumes. Guidance in selection, installation, calibration and operation of acceptable flow measurement devices can be obtained from the following references:

   (a) "A Guide to Methods and Standards for the Measurement of Water Flow," U. S. Department of Commerce, National Bureau of Standards, NBS Special Publication 421, May 1975, 97 pp. (Available from the U.S. Government Printing Office, Washington, D.C. 20402. Order by SD Catalog No. C13.10:421.)

   (b) "Water Measurement Manual," U.S. Department of Interior, Bureau of Reclamation, Second Edition, Revised Reprint, 1974, 327 pp. (Available from the U.S. Government Printing Office, Washington D.C. 20402. Order by Catalog No. 127,19/2:W29/2, Stock No. S/N 24003-0027.)

   (c) "Flow Measurement in Open Channels and Closed

Conduits," U.S. Department of Commerce, National Bureau of Standards, NBS Special Publication 484, October 1977, 982 pp. (Available in paper copy or microfiche from National Technical Information Service (NTIS) Springfield, VA 22151. Order by NTIS No. PB-273-535/5ST.)

(d) "NPDES Compliance Sampling Manual," U.S. Environmental Protection Agency, Office of Water Enforcement. Publication MCD-51, 1977, 140 pp. (Available from the General Services Administration (8FFS), Centralized Mailing Lists Services, Building 41, Denver Federal Center, Denver, CO 80225.)

3. Monitoring must be conducted according to United States Environmental Protection Agency test procedures approved under Title 40, Code of Federal Regulations (CFR), Part 136, "Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act" as amended, unless other test procedures have been specified in this Order.

4. All analyses shall be performed in a laboratory certified to perform such analyses by the California Department of Health Services or a laboratory approved by the Executive Officer.

5. Monitoring results must be reported on discharge monitoring report forms approved by the Executive Officer.

6. If the discharger monitors any pollutants more frequently than required by this Order, using test procedures approved under 40 CFR, Part 136, or as specified in this Order, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the discharger's monitoring report. The increased frequency of monitoring shall also be reported.

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

8. Records of monitoring information shall include:

(a) The date, exact place, and time of sampling or measurements;

(b) The individual(s) who performed the sampling or measurements;

(c) The date(s) analyses were performed;

(d) The individual(s) who performed the analyses;

(e) The analytical techniques or method used; and

(f) The results of such analyses.

9. All monitoring instruments and devices which are used by the discharger to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.

10. The discharger shall report all instances of noncompliance not reported under Reporting Requirement E.7 of this Order at the time monitoring reports are submitted. The reports shall contain the information listed in Reporting Requirement E.7.

11. The monitoring reports shall be signed by an authorized person as required by Reporting Requirement E.8.

12. A composite sample is defined as a combination of at least eight sample aliquot of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24 hour period. For volatile pollutants, aliquot 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. Aliquot may be collected manually or automatically.

13. 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.

14. Sampling and analysis shall, as a minimum, be conducted in accordance with Article 6 of California Code of Regulations, Title 22, Division 4, Chapter 3 (**Reclamation Criteria**).

B. EFFLUENT MONITORING

1. The Ramona Municipal Water District shall review the San Vicente Treatment Plant monitoring results for compliance with the following effluent limitations specified in Order No. 93-03 and submit a statement of compliance as part of Monitoring and Reporting Program No. 93-03. The statement of compliance shall identify and report all effluent limitation violations of Discharge Specifications No. B.1. of this Order. The following monitoring program shall constitute the effluent monitoring program for the San Vicente Treatment Plant specific to this Order:

Monitoring Program				
Determination	Unit	Sample Type	Sampling Frequency	Reporting Frequency
Flowrate	GPD	Continuous	Continuous	Quarterly
Biochemical Oxygen Demand (5-day @ 20 C)	mg/l	Composite	Weekly	Quarterly
Total Suspended Solids	mg/l	Composite	Weekly	Quarterly
Volatile Suspended Solids	mg/l	Composite	Weekly	Quarterly
PH		Composite	Weekly	Quarterly
Total Dissolved Solids	mg/l	Composite	Quarterly	Quarterly
Chloride	mg/l	Composite	Quarterly	Quarterly
Adjusted Sodium Adsorption ratio		Composite	Quarterly	Quarterly
Electrical Conductivity	mmho/cm	Composite	Quarterly	Quarterly
Sulfate	mg/l	Composite	Quarterly	Quarterly
Iron	mg/l	Composite	Quarterly	Quarterly
Manganese	mg/l	Composite	Quarterly	Quarterly
Methylene Blue Active Substances	mg/l	Composite	Quarterly	Quarterly
Boron	mg/l	Composite	Quarterly	Quarterly
Fluoride	mg/l	Composite	Quarterly	Quarterly
Aluminium	mg/l	Composite	Annually	Annually
Arsenic	mg/l	Composite	Annually	Annually
Barium	mg/l	Composite	Annually	Annually
Cadmium	mg/l	Composite	Annually	Annually
Chromium	mg/l	Composite	Annually	Annually
Copper	mg/l	Composite	Annually	Annually
Lead	mg/l	Composite	Annually	Annually
Zinc	mg/l	Composite	Annually	Annually
Mercury	mg/l	Composite	Annually	Annually
Selenium	mg/l	Composite	Annually	Annually
Silver	mg/l	Composite	Annually	Annually
Coliform	MPN/ 100 ml	Grab	*	Quarterly
Turbidity	NTU	Continuous	**	Quarterly

* Samples for coliform bacteria shall be collected at least daily and at a time when wastewater characteristics are most demanding on the treatment facilities and disinfection procedures.

** Turbidity analysis shall be performed by a continuous recording turbidimeter.

Note: MGD = Million g ns per day
mg/l = milligran per liter
NTU = Nephelometric Turbidity Units
mmho/cm verse of milliohms per centimeter
MPN/100 ml . illiliters per liter

2. The monitoring report shall indicate the flowrate and Title 22 levels being achieved in the effluent discharged for land disposal and/or reclamation from the San Vicente Treatment Plant. Flowrate reported in the monitoring report shall be representative of the flow discharged from the Title 22 treatment facility.

C. POTABLE SUPPLY WATERS

Analysis of the potable waters supplied to the service areas of the wastewater treatment facilities shall be conducted for the following constituent semiannually with the results reported quarterly.

Constituent	unit
Total Dissolved Solids	mg/l
Chloride	mg/l
Sulfate	mg/l

D. SEWAGE SOLIDS

A log of the type, quantity, and manner of disposal and/or reuse of solids removed in the course of sewage treatment shall be maintained at the facility and made available to the Regional Board staff. In addition, the discharger shall submit a report, to the Regional Board annually, that certifies the sludge treatment process complies with all federal and state regulations.

E. GROUNDWATERS

Representative samples of water from the well located at 15942 Serra Street in Ramona shall be collected and analyzed for the following constituents annually and reported to the Regional Board annually.

Constituent	unit
Total Dissolved Solids	mg/l
Chloride	mg/l
Sulfate	mg/l

F. RECLAIMED WATER USERS SUMMARY REPORT

If the Ramona Municipal Water District (discharger/producer) is supplying reclaimed water for use by other parties, the discharger/producer shall submit a quarterly reclaimed water users summary report containing the following information:

a) **Reclaimed water use site summary information**

The following information shall be submitted for each reclaimed water use site.

1) Name of the reclaimed water use site
2) Owner of the reclaimed water use facility
3) Address of the reclaimed water use site
4) Name of the reclaimed water use supervisor
5) Phone number of the reclaimed water use supervisor
6) Mailing address of the reclaimed water use supervisor, if different from site address
7) Basin Plan name and number of hydrologic subarea underlying the reclaimed water use site
8) Volume of reclaimed water delivered to the reclaimed water use site on a monthly basis.
9) Title 22 level of treated waste water approved by Department of Health Services for delivered to the reclaimed water use site.

b) **Reclaimed water use summary information**

1) Total volume of reclaimed water supplied to all reclaimed water users for each month of the reporting period.
2) Total number of reclaimed water use sites.

c) **Reclaimed water use site inspections**

Number of reclaimed water use site inspections conducted by discharger/producer staff and identification of sites inspected for the reporting period.

d) **Reclaimed water user violations of the discharger/producer's rules and regulations**

The discharger/producer shall identify all reclaimed water users known by the discharger/producer to be in violation of the discharger/producer's rules and regulations for reclaimed water users. The report shall include a description of the noncompliance and its cause, including the period of noncompliance, 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.

G. REPORTING

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

Reporting Frequency	Report Period	Report Due
Quarterly	January-March	April 30
	April-June	July 30
	July-September	October 30
	October-December	January 30
Annually	January-December	January 30

Monitoring reports shall be submitted to:

California Regional Water Quality Control Board
San Diego Region
9771 Clairemont Mesa Blvd., Suite B
San Diego, CA 92124-1331

Ordered by _____
Arthur L. Coe
Executive Officer
February 1, 1993