

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. 97-004

**WASTE DISCHARGE REQUIREMENTS
FOR
COACHELLA VALLEY WATER DISTRICT, OWNER/OPERATOR
PALM DESERT COUNTRY CLUB WASTEWATER RECLAMATION PLANT NO. 9
Palm Desert - Riverside County**

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. The Coachella Valley Water District, owner/operator (hereinafter referred to as the discharger), Post Office Box 1058, Coachella, California, submitted a report of waste discharge (ROWD) for the subject facility. The discharger presently discharges an annual average daily flow of 0.34 MGD of treated and chlorinated effluent to the lined storage basins. From the lined storage basin, the recycled water is pumped to the Palm Desert Country Club, 77800 California Drive, Palm Desert, California, mixed with pumped ground water in the irrigation system, and used for golf course irrigation.
2. This facility is located in the SW 1/4 of Section 13, T5S, R6E, SBB&M. The street address of the facility is 77-400 Fred Waring Drive, Palm Desert, California.
3. The discharger owns and operates an activated sludge wastewater treatment plant which is capable of treating a maximum of 0.4 million gallons-per-day (MGD) of raw wastewater to secondary treatment levels. The plant consists of the following treatment units: a grit chamber, two basin aeration basins, two secondary clarifiers, one chlorine contact chamber, and one aerobic digester, and two infiltration/storage basins. One basin is lined for storage of treated wastewater. Raw wastewater in excess of the design capacity does enter this facility during peak flows. However, this excess influent is pumped to the discharger's Mid-Valley Water Reclamation Plant.
4. In May 1996, the discharger signed and agreed upon the implementation of an irrigation operations plan. The Drinking Water Field Operations Branch of the State Department of Health Services approved the operations plan on July 24, 1996.
5. In March 1992, the discharger stated that approximately two percent of the wastewater enters the wastewater treatment plant from non-residential sources.
6. Treated sludge from the aerobic sludge digester is pumped to the discharger's Mid-Valley Water Reclamation Plant.
7. There are no domestic wells within 1,000 feet of the discharge facilities described in Finding No. 3, above.
8. This discharge has been subject to waste discharge requirements adopted in Board Order No. 91-045.
9. This Board Order updates the waste discharge requirements to comply with current laws and regulations as set forth in the California Water Code and the California Code of Regulations.

10. The State Department of Health Services has established statewide reclamation criteria in Section 60301, Chapter 2, Division 4, Title 22, California Code of Regulations, et.seq. for the use of recycled water and has developed guidelines for specific uses.
11. The Water Quality Control Plan for the Colorado River Basin Region of California (Basin Plan) was adopted on November 17, 1993 and designates the beneficial uses of ground and surface waters in this Region.
12. The beneficial uses of ground waters in the Coachella Hydrologic Subunit are:
 - a. Municipal supply (MUN)
 - b. Industrial supply (IND)
 - c. Agricultural supply (AGR)
13. The Board has notified the discharger and all known interested agencies and persons of its intent to update waste discharge requirements for said discharge and has provided them with an opportunity for a public meeting and an opportunity to submit comments.
14. The Board in a public meeting heard and considered all comments pertaining to this discharge.
15. In accordance with Section 15301, Chapter 3, Title 14 of the California Code of Regulations, the issuance of these waste discharge requirements, which govern the operation of an existing facility involving negligible or no expansion of use beyond that previously existing, is exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et. seq.).

IT IS HEREBY ORDERED, that Board Order No. 91-045 is rescinded, and in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, the discharger shall comply with the following:

A. Effluent Limitations

1. Wastewater effluent discharged to infiltration/storage basins from this facility shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate¹</u>	<u>7-Day Arithmetic Mean Discharge Rate²</u>
20°C CBOD ₅ ³	mg/L ⁴	25	40

¹ 30-Day Mean - The arithmetic mean of pollutant parameter values of samples collected in a period of 30 consecutive days.

² 7-Day Mean - The arithmetic mean of pollutant parameter values of samples collected in a period of 7 consecutive days.

³ CBOD₅ - Carbonaceous Biochemical Oxygen Demand

⁴ mg/L - milligrams per Liter

<u>Constituent</u>	<u>Unit</u>	<u>30-Day Arithmetic Mean Discharge Rate⁵</u>	<u>7-Day Arithmetic Mean Discharge Rate⁶</u>
Total Suspended Solids	mg/L	30	45
Settleable Matter	ml/L ⁷	0.3	0.5

2. Recycled water used for irrigation and purveyed by the discharger to the adjacent golf course for use in areas where the public has access or exposure shall be at all times an adequately disinfected, oxidized wastewater. The wastewater shall be considered adequately disinfected if the median number of coliform organism in the effluent does not exceed 23 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 organism does not exceed 240 per 100 milliliters in any two consecutive samples.
3. As a means of discerning compliance with Specification No. 1 for discharge to the infiltration/storage basins, the dissolved oxygen content in the upper zone (1 foot) of infiltration/storage ponds shall not be less than 1.0 mg/L.
4. The wastewater effluent and recycled water shall not contain total dissolved solids concentration in excess of 300 mg/L above the domestic source water.
5. The 30-day average daily dry weather discharge flow shall not exceed 0.4 MGD.

B. Prohibitions

1. The direct discharge of any wastewater to any surface waters or surface drainage courses is prohibited.
2. Bypass or overflow of untreated or partially treated waste is prohibited.
3. The discharge of waste to land not owned or controlled by the discharger is prohibited.
4. Discharge of treated wastewater at a location or in a manner different from that described in Finding No. 1, and 3, above, is prohibited.
5. The discharger shall not deliver recycled water for reuse to those users who, by reason of their operational practices, cause a condition of pollution or nuisance association with recycled water or otherwise contribute to the violation of the requirements of this Board Order.

⁵ 30-Day Mean - The arithmetic mean of pollutant parameter values of samples collected in a period of 30 consecutive days.

⁶ 7-Day Mean - The arithmetic mean of pollutant parameter values of samples collected in a period of 7 consecutive days.

⁷ ml/L - milliliters per Liter

C. Specifications

1. The treatment or disposal of wastes at this facility shall not cause pollution or nuisance as defined in Section 13050 of Division 7 of the California Water Code.
2. A minimum depth of freeboard of two (2) feet shall be maintained at all times in infiltration/storage basins.
3. The infiltration/storage basins shall be protected from any washout or erosion of wastes, and from any inundation which could occur as a result of floods having a predicted frequency of once in 100 years.
4. Infiltration/storage pond shall be managed to prevent breeding of mosquitos, in particular:
 - a. An erosion control program should assure that small coves and irregularities are not created around the perimeter of the water surface.
 - b. Control of weed growth shall be minimized through control of water depth, harvesting, or herbicides.
 - c. Dead algae, vegetation, and debris shall not accumulate on the water surface.
5. Public contact with undisinfected wastewater shall be precluded through such means as fences, signs, and other acceptable alternatives.
6. The discharge shall not cause degradation of any water supply.
7. The storage and delivery of recycled water shall not individually or collectively, directly or indirectly, result in a pollution or nuisance, or adversely affect water quality as defined in the California Water Code.
8. The delivery of recycled water shall be in conformance with the reclamation criteria contained in Chapter 3, Title 22 of the California Code of Regulations, or amendments thereto, for the irrigation of food crops, irrigation of fodder, fiber and seed crops, landscape irrigation, supply of recreational impoundments and ground water recharge.
9. Prior to delivering recycled water to any new user, the discharger shall submit to the Regional Board and the State Department of Health Services a report discussing the delivery system, the use for which the recycled water is intended and plans to assure that no untreated or inadequately treated wastewater will be delivered to the use area.
10. Treated or untreated wastewater sludge or similar wastewater treatment related solid waste materials shall be disposed as described in Finding No. 6 of this Board Order, or at locations approved by the Regional Board's Executive Officer.
11. Wastewater treatment and conveyance facilities shall have backup power available to keep the plant in operation in the event of commercial power failure.

D. Provisions

1. The discharger shall comply with "Monitoring and Reporting Program No. 97-004", and future revisions thereto, as specified by the Regional Board's Executive Officer.

2. Prior to any modifications in this facility which would result in material change in the quality or quantity of wastewater treated or discharged, or any material change in the location of discharge, the discharger shall report all pertinent information in writing to the Regional Board and obtain revised requirements before any modifications are implemented.
3. Prior to any change in ownership or management of this operation, the discharger shall transmit a copy of this Board Order to the succeeding owner/operator, and forward a copy of the transmittal letter to the Regional Board.
4. The discharger shall ensure that all site operating personnel are familiar with the content of this Board Order, and shall maintain a copy of this Board Order at the site.
5. This Board Order does not convey any property rights of any sort or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
6. The discharger shall report any spill incident which endangers human health or the environment to the California Office of Emergency Services at (800) 852-7550 and the Regional Water Quality Control Board at (760) 346-7491. During non-business hours, the discharger shall leave a message on the Regional Board's message machine which is available at the above listed number. Incident information shall be provided orally as soon as possible and within 24 hours from the time the discharger becomes aware of the incident. A written submission shall also be provided to the Regional Board within five business days of the time the discharger becomes aware of the circumstances.

The written submission shall contain:

- a. A description of the noncompliance and its cause;
- b. 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
- c. Steps taken or planned to reduce, eliminate and prevent recurrence of noncompliance.

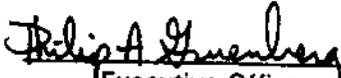
The discharger shall also report all sewage spills in excess of 1,000 gallons from the wastewater collection system in a similar procedure as the one stated above.

7. The discharger shall allow the Regional Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the premises regulated by this Board Order, or the place where records must be kept under the conditions of this Board Order;
 - b. Have access to and copy, at reasonable times, any records that shall be kept under the conditions of this Board Order;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Board Order; and
 - d. Sample or monitor at reasonable times, for the purpose of assuring compliance with this Board Order or as otherwise authorized by the California Water Code, any substances or parameters at this location.

8. The discharger shall comply with the following:
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. 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 Board Order, and records of all data used to complete the application for this Board Order, for a period of at least 5 years from the date of the sample, measurement, report or application. This period may be extended by request of the Regional Board's Executive Officer at any time.
9. Unless otherwise approved by the Regional Board's Executive Officer, all analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health Services. All analyses shall be conducted in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.
10. The discharger is the responsible party for the waste discharge requirements and the monitoring and reporting program for the facility. The discharger shall comply with all conditions of these waste discharge requirements. Violations may result in enforcement actions, including Regional Board Orders or court orders, requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board.
11. Objectionable odors originating at this facility shall not be perceivable beyond the limits of the wastewater treatment and disposal system.
12. The discharger's wastewater treatment plant shall be supervised and operated by persons possessing certification of appropriate grade pursuant to Section 3680, Chapter 4, Division 4, Title 23 of the California Code of Regulations. The discharger shall ensure that all operating personnel are familiar with the contents of this Board Order.
13. The discharger shall provide adequate notice to the Regional Board's Executive Officer of the following:
 - a. If new pollutants are introduced into the treatment facility described in the Findings of this Board Order from an indirect discharge which would be subject to Section 301 or 306 of the Clean Water Act, and if it were directly discharging the pollutants.
 - b. If a substantial change in the volume or character of pollutants being introduced into the treatment facility described in the Findings of this Board Order occurs or will occur by an existing or new source, respectively.
 - c. If there are any planned physical alterations or additions to the facilities described in this Board Order, or changes planned in the sludge use or disposal practice, where such alterations, additions, or changes may justify the application of Board Order conditions that are different from or absent in the existing Board Order, including notification of additional disposal sites not reported during the Board Order application process, or not reported pursuant to an approved land application plan.

- d. Adequate notice shall include information on the quality and quantity of effluent introduced, and anticipated impact of the change on the quantity of the discharger's effluent and/or sludge.
14. The discharger shall report all instances of noncompliance. Reports of noncompliance shall be submitted with the next scheduled self-monitoring report or earlier if requested by the Regional Board's Executive Officer, or if required by an applicable standard for sludge use and disposal.
 15. The discharger may be required to submit technical reports as directed by the Regional Board's Executive Officer.
 16. The discharger shall implement an acceptable operations and maintenance plan at the wastewater treatment plant so that needed repair and maintenance are performed in a timely manner.
 17. In the event that significant industrial wastewater are being discharged to the wastewater treatment plant, the discharger shall develop and implement an approved Industrial Pretreatment Program in accordance with the applicable Federal Pretreatment Regulations in 40 CFR part 403.
 18. Collected screenings, sludges, and other solids removed from liquid wastes shall be disposed of in a manner that is consistent with Chapter 15, Division 3, Title 23 of the California Code of Regulations and approved by the Regional Board's Executive Officer.
 19. The discharger shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the discharger to achieve compliance with this Board Order. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a discharger only when necessary to achieve compliance with the conditions of this Board Order.

I, Philip A. Gruenberg, 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, Colorado River Basin Region, on May 28, 1997.


Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

**MONITORING AND REPORTING PROGRAM NO. 97-004
FOR
COACHELLA VALLEY WATER DISTRICT, OWNER/OPERATOR
PALM DESERT COUNTRY CLUB WASTEWATER RECLAMATION NO. 9
Palm Desert - Riverside County**

Location of Discharge: SW 1/4 of Section 13, T5S, R6E, SBB&M

ENFLUENT MONITORING

The wastewater influent to the treatment facilities shall be monitored for the following:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
20°C CBOD ₅ ¹	mg/L ²	24-Hr. Composite	Monthly
Suspended Solids	mg/L	24-Hr. Composite	Monthly

EFFLUENT MONITORING

A sampling station shall be established at the point of discharge and shall be located where representative samples of effluent can be obtained. Wastewater discharged into infiltration/storage basins shall be monitored for the following constituents:

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Volume of Discharge to the Infiltration/Storage Basins	MGD ³	Average Daily ⁴	Daily
20°C CBOD ₅	mg/L	24-Hr. Composite	Weekly
Suspended Solids	mg/L	24-Hr. Composite	Weekly
Settleable Matter	ml/L ⁵	Grab at Peak Flow	Weekly

¹ CBOD₅ - Carbonaceous Biochemical Oxygen Demand

² mg/L - milligrams per Liter

³ MGD - Million Gallons-per-Day

⁴ Reported monthly with monthly average daily flow calculated.

⁵ ml/L - milliliters per Liter

<u>Constituent</u>	<u>Unit</u>	<u>Type of Sample</u>	<u>Sampling Frequency</u>
Total Dissolved Solids	mg/L	Grab	Quarterly
Volatile Organics	$\mu\text{g/L}^6$	Grab	Annually
Dissolved Oxygen ⁷	mg/L	Grab	Quarterly

RECYCLED WATER MONITORING

Recycled water used on the golf course shall be sampled at a representative location for the following constituents:

<u>Constituent</u>	<u>Type of Unit</u>	<u>Sampling Sample</u>	<u>Frequency</u>
Total Coliform	MPN ⁸ /100 ml	Grab	Daily
Volume of Wastewater Used for Irrigation at Each Location	Gallons/Day	Continuous	Daily
Chlorine Residual	mg/L	Grab	Daily
Total Inorganic Nitrogen ⁹	mg/L	Grab	Quarterly

COMMUNITY WATER SUPPLY

<u>Constituent</u>	<u>Type of Unit</u>	<u>Sampling Sample</u>	<u>Frequency</u>
Total Dissolved Solids	mg/L	Grab	Annually

OPERATION AND MAINTENANCE

<u>Activity</u>	<u>Reporting</u>
To inspect and document any operation/maintenance problems by inspecting each unit process	Annually

⁶ $\mu\text{g/L}$ - micrograms per Liter

⁷ Dissolved Oxygen shall be monitored at the upper (one foot or less) layer of the infiltration/storage basins.

⁸ MPN - Most Probable Number

⁹ Reported individually as Nitrate ($\text{NO}_3\text{-N}$), Ammonia (NH_3), and Nitrite ($\text{NO}_2\text{-N}$)

GENERAL MONITORING

1. The collection, preservation and holding times of all samples shall be in accordance with U. S. Environmental Protection Agency approved procedures. All analyses shall be conducted by a laboratory certified by the State Department of Health Services to perform the required analyses.
2. Compliance with the effluent limitations shall be determined at the point of the discharge unless otherwise specified.
3. If the facility is not in operation, or there is no discharge during a required reporting period, the discharger shall forward a letter to the Regional Board indicating that there has been no activity during the required reporting period.
4. The discharger shall submit to the Regional Board an annual report containing the following:
 - a. Total number of gallons of recycled water used in the previous 12-month period.
 - b. An estimation of the number of gallons of recycled water that will be used in the next 12-month period.

REPORTING

1. The discharger shall arrange the data in tabular form so that the specified information is readily discernible. The data shall be summarized in such a manner as to clearly illustrate whether the facility is operating in compliance with waste discharge requirements.
2. Each report shall contain the following statement:

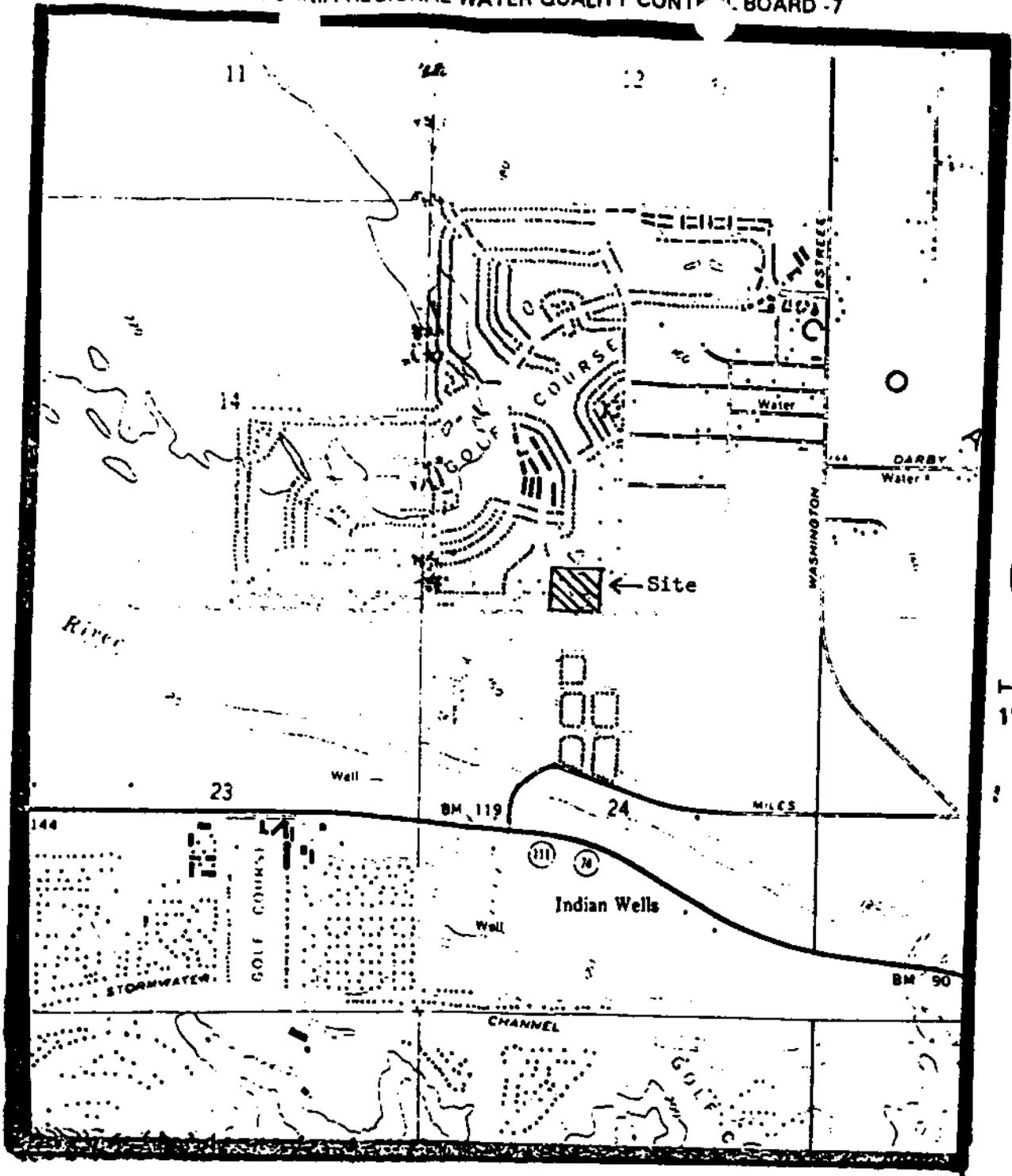
"I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations."
3. A duly authorized representative of the discharger may sign the documents if:
 - a. The authorization is made in writing by the person described above;
 - b. The authorization specified an individual or person having responsibility for the overall operation of the regulated disposal system; and
 - c. The written authorization is submitted to the Regional Board's Executive Officer.
4. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurement(s);
 - b. The individual(s) who performed the sampling or measurement(s);
 - 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.

5. Daily, weekly, and monthly monitoring reports shall be submitted by the 15th day of the following month. Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15 and October 15 of each year. Annual monitoring reports shall be submitted to the Regional Board by January 15 of each year.
6. Submit monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring, Suite 100
Palm Desert, CA 92260

Ordered by: Philip A. Greenberg
Executive Officer

May 28, 1997
Date



SCALE:
1" = 2,000'

SITE MAP

COACHELLA VALLEY WATER DISTRICT, OWNER/OPERATOR
 PALM DESERT COUNTRY CLUB WASTEWATER RECLAMATION NO. 9
 Palm Desert - Riverside County
 SW 1/4 of Section 13, T6S, R6E, SBB&M
 USGS La Quinta 7.5 min. Topographic Map