

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

ORDER NO. 97-048

**WASTE DISCHARGE REQUIREMENTS
FOR**

**PALM DESERT COUNTRY CLUB, OWNER/OPERATOR
RECYCLED WATER REUSE FOR GOLF COURSE IRRIGATION
Palm Desert - Riverside County**

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

1. The Palm Desert Country Club, (hereinafter referred to as the discharger), 77800 California Drive, Palm Desert, California, 92260, owns and operates the Palm Desert Country Club Golf Course. The golf course uses secondary treatment levels of recycled water for landscape irrigation. On July 5, 1994, the Coachella Valley Water District submitted a report of waste discharge (ROWD) on behalf of the discharger.
2. The Coachella Valley Water District presently discharges an annual average daily flow of 0.34 MGD of treated and chlorinated effluent from their wastewater treatment to a lined storage basin. From the lined storage basin, the recycled water is pumped to the Palm Desert Country Club, mixed with pumped ground water in the irrigation system, and used for golf course irrigation. The recycled water use areas are the driving range holes seven, eight and nine of the executive golf course, and the centerline areas of holes six, seven, eight and nine of the championship golf course. It is estimated that recycled water supplies approximately thirteen percent of the irrigation water used on the golf course.
3. This facility is located in the SW 1/4 of Section 13, T5S, R6E, SBB&M. The street address of the facility is 77800 California Drive, Palm Desert, California.
4. The Coachella Valley Water District owns and operates an activated sludge wastewater treatment plant 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 aeration basins, two secondary clarifiers, one chlorine contact chamber, and one aerobic digester. The treatment plant has two storage/infiltration basins on-site. One of these basins is lined for storage of recycled water. Raw wastewater in excess of the design capacity enters this facility during peak flows. However, this excess influent is pumped to the discharger's Mid-Valley Water Reclamation Plant.
5. In May 1996, the discharger and the Coachella Valley Water District signed and agreed upon the implementation of an irrigation operations plan. The Drinking Water Field Operations Branch of the California Department of Health Services approved the operations plan on July 24, 1996.
6. There are no domestic wells within 1,000 feet of the discharge facilities described in Finding No. 1, above.
7. This discharge has been subject to waste discharge requirements adopted in Board Order No. 91-045.
8. 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.

9. The California 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.
10. The California Department of Health or their delegated agent, has primary responsibility for determining compliance with the requirements in this Board Order listed under D. Health Based Provisions.
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. Prohibitions

1. The direct discharge of any recycled water to any drainage courses connected to surface waters of the United States is prohibited.
2. The discharge of recycled water to land not owned or controlled by the discharger is prohibited.
3. Discharge of recycled water at a location or in a manner different from that described in Finding No. 1, above, is prohibited.
4. Direct or indirect discharge of recycled water into any on-site domestic or irrigation supply well as a result of recycled water irrigation use on golf courses and landscape areas is prohibited.

B. Specifications

1. The application of recycled water at this facility shall not cause pollution or nuisance as defined in Section 13050 and 13050 of Division 7 of the California Water Code.

2. The discharge shall not cause degradation of any water supply.
3. The delivery or use 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.
4. Prior to using recycled water at any new location, the discharger shall submit to the Regional Board and the California Department of Health Service a report discussing the delivery system, the use for which the recycled water is intended and plans to assure that the use of recycled water at the new location will be in conformance with all applicable rules and regulations.

C. Provisions

1. The discharger shall comply with "Monitoring and Reporting Program No. 97-048", and future revisions thereto, as specified by the Regional Board's Executive Officer.
2. Prior to any change in ownership or management of this operation, the discharger and discharge user 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.
3. An on-site supervisor responsible for operation of the reclaimed wastewater system shall be designated by the discharger. The supervisor shall be responsible for the installation, operation and maintenance of the irrigation system, enforcing this Board Order, prevention of potential hazards, maintenance of the distribution system plans in "as-built" form, if available, and for the distribution of the reclaimed wastewater in accordance with this Board Order. The name of the on-site supervisor shall be furnished in writing to the Regional Board at least 30 days prior to commencement of the use of reclaimed wastewater.
4. 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.
5. 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.

6. The discharger shall allow the Regional Board, or an authorized representative, including representatives from the State Department of Health Services, 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.
7. 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.
8. The discharger is the responsible party for these 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.
9. The discharger may be required to submit technical reports as directed by the Regional Board's Executive Officer.
10. The discharger shall at all times properly operate and maintain all facilities and systems of control (and related appurtenances) that are installed or used to achieve compliance with this Board Order. Proper operation and maintenance also includes adequate assurance procedures where appropriate.
11. 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. Personnel must be informed that recycled water is meant for those uses described in Finding No. 2 only, and is not approved for drinking, handwashing, etc. Personnel must also be informed of the locations of domestic and recycled lines to ensure that the potable and recycled systems are not interconnected.
12. The discharger shall assure that notification of recycled water is provided to people who reside adjacent to irrigation reuse areas and to golf course patrons. The content of the notice and method of notification shall be approved by the Regional Board's Executive Officer.

D. Health-Based Provisions:

1. The discharger shall irrigate the remaining greenbelt areas not mentioned in Finding No 1, and the perimeters of holes six, seven, eight and nine of the championship golf course adjacent to personal residence solely with pumped groundwater or potable water.
2. There shall be no cross connection between potable water supply and piping containing recycled water. The discharger shall ensure that no cross-connection exists by conducting site inspections at a frequency approved by the Drinking Water Field Operation Branch of the California Department of Health Services (DHS). The discharger shall conduct a shut-down or pressure test mutually agreeable with DHS, the discharger and the Coachella Valley Water District at least once every four years. Augmenting recycled water from the domestic supply shall not be allowed except through an air-gap separation. An air-gap or reduced pressure principle device shall be provided to all domestic service connections to recycled water use areas.
3. There shall be at least a 4-foot horizontal and 1-foot vertical separation (with domestic water above the recycled water pipeline), with domestic water above the recycled water pipeline, between all newly installed constant pressure pipelines transporting recycled water and those transporting domestic water, unless otherwise approved by the State or County Department of Health Services. All newly installed recycled water distribution lines shall be colored purple or labeled with purple tape. Existing pipelines are excluded from this requirement.
4. The discharge user shall determine if windblown spray will be carried off-site during irrigation. If such a determination is made, recycled water irrigation shall be postponed.
5. The discharger shall not irrigate the golf course at times when non-golf course personnel can come in contact with the recycled water.
6. The discharger shall not operate the recycled water irrigation system at times during business hours. Specifically, the discharge user shall not operate the recycled water irrigation system during the following:

<u>Period</u>	<u>Time</u>
November 1 through April 30	7:00 A.M. to 5:00 P.M.
May 1 through September 14	6:00 A.M. to 6:00 P.M.

7. The discharger shall ensure that the spray radius and irrigation pattern for all sprinklers using recycled water is adjusted to provide a 50 foot buffer zone between irrigated areas and the property line of all adjacent residences.
8. The discharger shall not install any sprinklers outside the areas listed in Finding No. 1 and within 75 feet of residences adjacent to the reuse area during the operation of the Wastewater Reclamation Plant No. 9 recycled water pump without DHS approval.
9. During times of recycled water irrigation, the discharger shall irrigate according to the daily water needs of the irrigated landscape.
10. The discharger shall remove all sprinkler heads in the reuse area after irrigation is completed.
11. The discharger shall post a permanent recycled water use sign in a location visible to all golfers.

12. The discharger shall notify the residents adjacent to the golf course, at least annually, of the use of secondary treated recycled water on the golf course for irrigation.

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. 97-048
FOR
PALM DESERT COUNTRY CLUB, OWNER/OPERATOR
RECYCLED WATER REUSE FOR GOLF COURSE IRRIGATION
Palm Desert - Riverside County**

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

OPERATION AND MAINTENANCE

The discharger shall report the following:

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

REPORTING

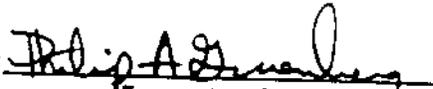
1. Each report shall contain the following statement:

"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 fine and imprisonment for knowing violations."
2. Report immediately any failure 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.
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. Annual monitoring reports shall be submitted to the Regional Board by January 15 of each year.

5. If the facility is not using recycled water during any reporting period, the discharger shall forward a letter to the Regional Board indicating that no use of recycled water was conducted during the required reporting period.
6. Submit monitoring reports to:

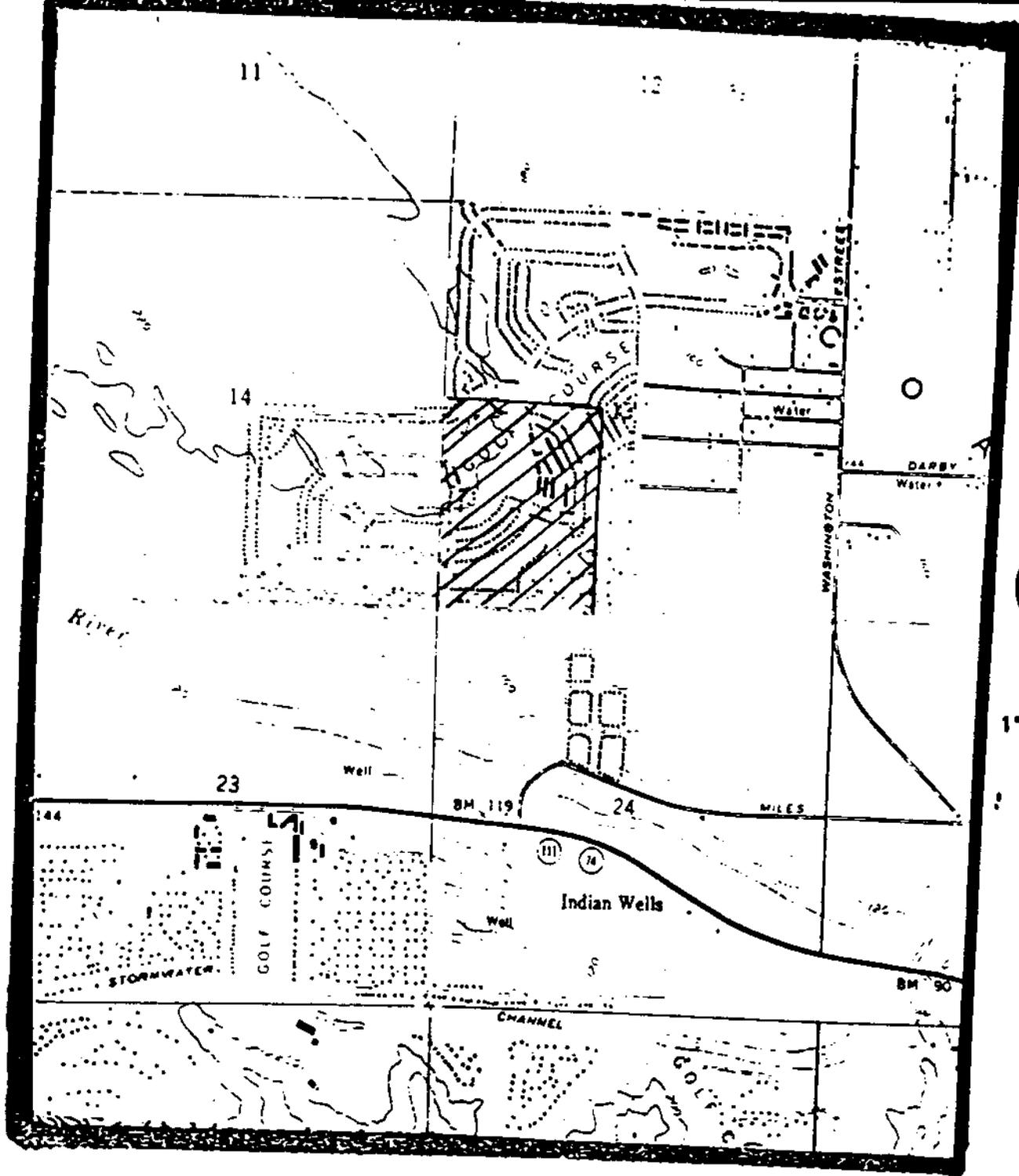
California Regional Water Quality Control Board
Colorado River Basin Region
73-720 Fred Waring, Suite 100
Palm Desert, CA 92260

Ordered By:


Executive Officer

May 28, 1997

Date



SITE MAP

**PALM DESERT COUNTRY CLUB, OWNER/OPERATOR
 RECYCLED WATER REUSE FOR GOLF COURSE IRRIGATION
 Palm Desert - Riverside County
 SW 1/4 of Section 13, T5S, R6E, SBB&M
 USGS La Quinta 7.5 min. Topographic Map**

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