

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION**

**MEETING OF MARCH 10, 2010
Victorville**

ITEM: 4

SUBJECT: **Victor Valley Wastewater Reclamation Authority; Westwinds Golf Course and High Desert Power Project, San Bernardino County**

CHRONOLOGY: June 11, 2003 Water Recycling Requirements
(Board Order No. R6V-2003-028)

ISSUE : Should the Regional Board amend Water Recycling Requirements for Westwinds Golf Course allowing Victor Valley Wastewater Reclamation Authority (VWRA) to also supply recycled water to the High Desert Power Project (HDPP) for use as cooling water?

DISCUSSION: VWRA produces recycled water at its domestic wastewater treatment plant. Production and use of the recycled water for turf irrigation at the Westwinds Golf Course is regulated under Board Order No. R6V-2003-028. When that Order was adopted in 2003, the use of recycled water was limited to golf course. The Order acknowledged that at a future time, there might be a need to use recycled water at other locations in Southern California Logistics Airport (SCLA).

The proposed Board Order amends Board Order No. R6V-2003-028 to allow recycled water produced by VWRA to also be supplied to the HDPP. Use of the recycled water by HDPP is regulated separately under Board Order No. R6V-2009-0138.

The proposed Order contains requirements that VWRA produce water that meets title 22, California Code of Regulations standards for "disinfected tertiary recycled water" for cooling tower use. Before VWRA can supply water for other uses, the proposed Order requires a revised report of recycled water use. VWRA is required by the proposed Order to submit monitoring data to verify compliance under the existing Monitoring and Reporting Program No. R6V-2003-028.

The proposed Order does not change the current discharge flow from VWRA to the Mojave River. VWRA discharges to the Mojave River and to its percolation ponds are regulated under separate Regional Board Orders.

04-0001

Comments on the tentative Order were solicited from interested parties. Comments were received from VVWRA concurring with the proposed Order. Comments were also received from High Desert Power Project, LLC concurring with the proposed Order and suggesting editorial changes. All comments received have been addressed in the proposed Order.

RECOMMENDATION: Adoption of the Order as proposed.

Enclosure: 1. Proposed Board Order

S/Board Orders 2010/VVWRA/Proposed/VVWRA GS

04-0002

4000-10

ENCLOSURE 1

04-0003



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LAHONTAN REGION

BOARD ORDER NO. R6V-2003-028A1 (PROPOSED)
WDID NO. 6B360207001

AMENDED WATER RECYCLING REQUIREMENTS

FOR
VICTOR VALLEY WASTEWATER RECLAMATION AUTHORITY
WESTWINDS GOLF COURSE AND HIGH DESERT POWER PROJECT

San Bernardino County

The California Regional Water Quality Control Board, Lahontan Region (Water Board) finds:

1. Producer and User

On October 27, 2009, the Victor Valley Wastewater Reclamation Authority (VWVRA), hereinafter the "Producer" and the "Discharger" submitted an application/Report of Waste Discharge (RWD) for the proposed use of recycled water from the VWVRA treatment facility for cooling applications at the High Desert Power Project (HDPP), hereinafter the "User". The RWD was deemed complete on January 25, 2010. VWVRA produces recycled water at its waste treatment facility. The City of Victorville, hereinafter the "Distributor", through its Victorville Water District subsidiary is proposing to construct an 18-inch pipeline that will connect to an existing 16-inch pipeline and deliver recycled water to HDPP. For the purposes of this Order, "recycled water" as defined in the California Water Code (CWC), section 13050, sub-division (n) as water, which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is therefore considered a valuable resource and "reclaimed water" as used in CWC section 13523 are synonymous.

2. Facility Location

The HDPP facility is bordered to the east by Perimeter Road in the City of Victorville. To the west is previously graded but undeveloped land extending to the Southern California Logistics Airport (SCLA) boundary. The HDPP is located in Section 24, Township 6 North, Range 5 West of San Bernardino Baseline and Meridian as shown on Attachment A of this Order.

04-0004

3. Reason for Action

The VVWRA provides recycled water to the City of Victorville for irrigation use at the Westwinds Golf Course. VVWRA also produces recycled water that will be used by the HDPP. The Water Board is amending the Water Recycling Requirements (WRRs) prescribed under Board Order No. R6V-2003-028 for the Westwinds Golf Course to include VVWRA as a Producer of recycled water for use by HDPP for cooling purposes.

According to a revised staff analysis document issued from the California Energy Commission (CEC), dated September 24, 2009, the HDPP has been using 3,000 acre-feet per year of cooling water by the State Water Project (SWP). HDPP has a design flow capacity of 4,000 acre-feet per year.

According to Finding No. 4 of Board Order No. R6V-2009-0138, HDPP currently plans on using up to 1,000 acre-feet per year of recycled water produced by the VVWRA for cooling water. The CEC Staff Analysis indicates that the HDPP intends to replace cooling water from SWP with recycled water as it becomes available from VVWRA or from a future source up to the design capacity.

4. Other Related Requirements

The discharge of treated wastewater from the Producer's wastewater treatment plant (WWTP) is regulated by Board Order No. R6V-2008-004 (Waste Discharge Identification No. 6B360109001 and National Pollutant Discharge Elimination System No. CA 0102822) adopted on February 14, 2008 and Board Order No. 6-99-58 (Waste Discharge Requirements). The use of recycled water at HDPP is regulated under HDPP's Water Recycling Requirements, Board Order No. R6V-2009-0138. The VVWRA is authorized to supply recycled water to the Westwinds Golf Course and the Westwinds Golf Course is authorized to use recycled water as described in the Westwinds Golf Course Water Recycling Requirements, Board Order No. R6V-2003-028. HDPP uses recycled water for non-contact cooling water in its cooling towers.

5. Land Ownership

The HDPP is located on land owned by the U.S. Government acting through the U.S. Air Force. The property is part of the former George Air Force Base now known as Southern California Logistics Airport. A lease dated April 29, 1994, leases the base property to the Victor Valley Economic Development Authority (VVEDA) for 25 years with an option to extend the lease for an additional 25 years with no additional requirements. VVEDA assigned its rights under this lease to the Southern California Logistics Airport Authority (SCLAA) by agreement on October 25, 2000. SCLAA and the High Desert Power Project Trust entered into a ground lease agreement for the HDPP site in February 2001.

6. California Environmental Quality Act (CEQA) Compliance

These amended WRRs govern existing facilities, which the Producer is currently operating, that will now be providing water for a new recycled water use by the HDPP. Evaluation of the new recycled water use, for the purposes of the CEQA, is described in Finding No. 9 of Board Order No. R6V-2009-0138. The project covered by this Order consists only of the continued operation of the existing facilities governed by these amended WRRs and is therefore exempt from the provisions of the CEQA (Public Resources Code, Section 21000 et seq.) in accordance with California Code of Regulations (CCR), title 14, section 15301, subdivision (a). The use of the recycled water at HDPP is evaluated under CEQA in Board Order No. R6V-2009-0138, adopted on December 9, 2009. As described in Board Order No. R6V-2009-0138, the California Energy Commission is the lead agency under CEQA for use of recycled water at HDPP. The California Energy Commission produced a CEQA functional equivalent document evaluating the project. The Water Board evaluated the impact to water quality from the proposed water reuse project as described in Finding No.9 of Board Order No. R6V-2009-0138.

Finding No. 15 of Board Order No. R6V-2003-028 describes the initial study completed to comply with the CEQA for supply and use of recycled water for irrigation at Westwinds Golf Course. Recycled water is produced at Victor Valley Wastewater Reclamation Authority's (VWRA) Victorville plant as prescribed in Board Order No's R6V-2008-004 (NPDES) and 6-99-58 (WDRs). The supply and use of recycled water at HDPP has been evaluated in compliance with the CEQA as described above.

7. Lahontan Basin Plan

The Water Board adopted a Water Quality Control Plan for the Lahontan Region (Basin Plan) which became effective on March 31, 1995, and this Order implements the Basin Plan as amended.

8. Notification of Interested Parties

The Water Board has notified the User, Producer, Distributor, and interested persons of its intent to amend Water Recycling Requirements issued to the VWRA.

9. Consideration of Public Comments

The Water Board, in a public meeting, heard and considered all comments pertaining to the recycled water use project.

10. State Water Board Recycled Water Policy

State Water Board Resolution No. 2009-0011, "Adoption of a Policy for Water Quality Control for Recycled Water," references and adopts the "State Water Resources Control Board Recycled Water Policy" (Recycled Water Policy). The Recycled Water Policy provides direction to the State and Regional Water Boards regarding the appropriate criteria to be used in issuing permits for some recycled water projects. The Recycled Water Policy describes permitting criteria intended to streamline, and provide consistency for, the permitting of the vast majority of recycled water projects. The Recycled Water Policy addresses impacts to water quality through a salt management plan including a degradation analysis. Because there is no discharge to surface water or groundwater authorized by this Order, a salt management plan and degradation analysis are not necessary. This Order implements the Recycled Water Policy because CDPH reviewed and accepted the Engineering Report to satisfy Section 5.b. of the Recycled Water Policy.

IT IS HEREBY ORDERED that the Producer and User must comply with the following amended requirements:

I. PRODUCER EFFLUENT SPECIFICATIONS

Modify the language of items "A", "C", "D" in section I of Board Order No. R6V-2003-028 to add the following, and add an item "E":

- A. The Recycled Water supplied by the Producer to the User must meet all requirements of Section 60306, (Use of recycled water for cooling), Title 22, CCR and related Sections of Title 22.
- C. The pH of the recycled water delivered to HDPP must, at all times, be not less than 6.0 nor more than 9.0.
- D. All recycled water delivered to HDPP shall have a dissolved oxygen concentration of not less than 1.0 mg/L at all times.
- E. Recycled water must not be used at other locations or for uses other than those specified in this Order as well as uses specified in Board Order No. R6V-2003-028. Before any use may be changed or expanded, the User or Producer must file a revised Report of Recycled Water Use with the Water Board in accordance with Section 13523 of the CWC. A revised Title 22 engineering report (approved by the California Department of Public Health) must also be submitted for any changes or expansions of recycled water. The Water Board must issue new or modified Water Reclamation Requirements.

II. USER WATER RECYCLING REQUIREMENTS

- A. The User must immediately notify the Water Board whenever an adverse condition occurs as a result of this reuse. Written confirmation shall follow 10 days after the condition occurs. An adverse condition includes but is not limited to, ponding or off-site run-off of recycled water.

III. PROVISIONS FOR RECYCLED WATER USE APPLICABLE TO BOTH THE PRODUCER AND THE USER

- A. All requirements contained in Board Order No. R6V-2003-028 remain in effect.
- B. Pursuant to California Water Code, section 13267, sub-division (b), the Producer must comply with the Monitoring and Reporting Program (MRP) in Board Order No. R6V-2003-028 and the User must comply with the MRP and Board Order No. R6V-2009-0138.
- C. Any proposed material change in the character of water to be recycled, method of reuse, location of reuse or quantity of recycled water must be reported to the Water Board. A RWD must be submitted at least 140 days prior to initiation of the reuse.
- D. The Water Board may change all or any portion of this Order upon legal notice to and after opportunity to be heard is given to all concerned parties.

I, Harold J. Singer, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Lahontan Region, on March 10, 2010.

HAROLD J. SINGER
EXECUTIVE OFFICER

Attachment: A. HDPP Vicinity Map

JM/rp BO 2010/VWRWA/R6V-2003-028A1-ProWestwinds WDR

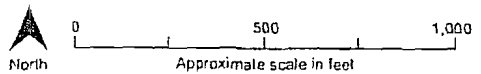
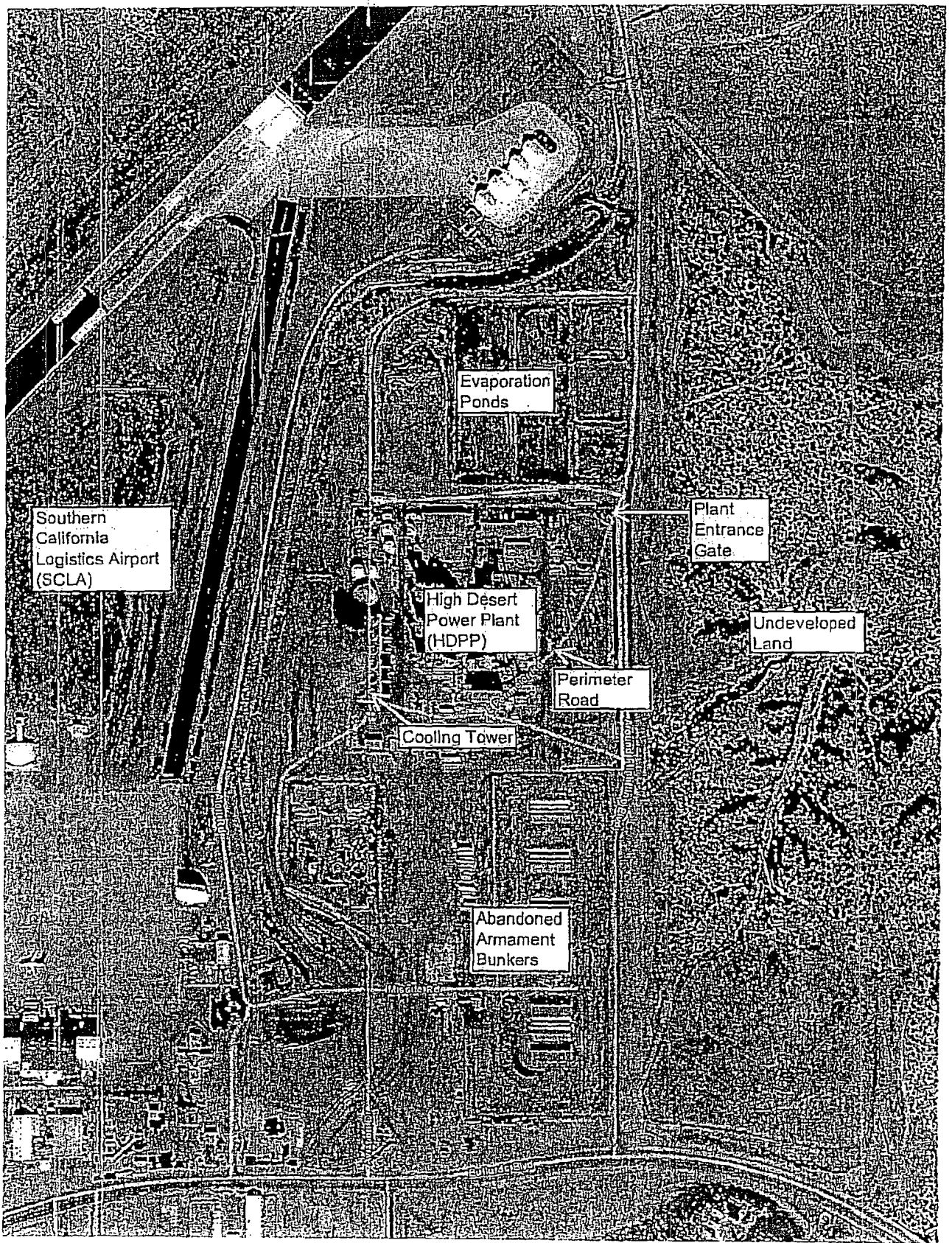
04-0008



ATTACHMENT A

04-0009





Attachment A

04-0010

HDPP Vicinity Map
Victorville, CA

