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JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board

Division of Drinking Water

December 16, 2019

Renee Purdy
Executive Officer
Los Angeles Regional Water Quality Control Board
320 W. 4th Street, Suite 200
Los Angeles, CA 90013

DIVISION OF DRINKING WATER REVIEW OF THE ALBERT ROBLES CENTER ADVANCED WATER TREATMENT FACILITY'S AOP PERFORMANCE TEST REPORT AND REVISED AOP SETPOINTS FOR THE WATER REPLENISHMENT DISTRICT (1990003-730)

Dear Ms. Purdy,

The State Water Resources Control Board's Division of Drinking Water (Division) reviewed a UVAOP Performance Test Report (Report) for the Albert Robles Center Advanced Water Treatment Facility (Project) dated September 6, 2019, prepared and submitted by TrojanUV on behalf of the Water Replenishment District (District). Division's conditional approval letter (Letter) dated June 6, 2018 stated in conditions 5 and 6 that the District shall conduct full-scale startup and commissioning testing that demonstrates compliance with Title 22, section 60320.201; and the startup and commissioning shall validate and confirm the actual setpoints for free chlorine and UV parameters, demonstrating that the Advance Oxidation Process (AOP) will provide no less than 0.5-log (69 percent) reduction of 1,4-dioxane and meets all Notification Levels.

The purpose of the Report is to summarize results from the full-scale startup and commissioning testing, and to propose setpoints for operations of the Project's AOP. Division has reviewed the Report and conducted an on-site inspection of the Project on December 11, 2019. Based on the review of the Report and the on-site inspection, the Project has satisfied conditions 5 and 6 of the Letter. Division approves the Project with the following setpoints, and replaces Conditions 13 g and h of the Letter with the following conditions:

g. The AOP shall be operated, as has been designed, to meet Title 22, Article 5.2, providing a minimum 0.5-log reduction of 1,4-dioxane and meet all Notification Levels.
h. The AOP must be operated with continuous monitoring and built-in automatic reliability features that must trigger automatic diversion of effluent by the following critical alarm setpoints.
    i. Complete UV reactor failure.
    ii. Train flowrate exceeds 7.5-MGD per train for more than 15 minutes.
    iii. UV transmittance less than 95% for more than 15 minutes.

iv. pH greater than or equal to 6.5 as measured in the AOP influent for more than 15 minutes.
v. Free Chlorine residual less than 1.5 mg/L as measured in the AOP influent for more than 15 minutes.
vi. Electrical energy dose of less than 0.35 kWh/kgal for more than 15 minutes.

If you have any questions regarding this letter, please contact Faraz Asad at (714) 558-4708 or via email at faraz.asad@waterboards.ca.gov or me at (619) 525-4022 or via email at Randy.Barnard@waterboards.ca.gov.

Sincerely,

Randy Barnard, P.E.
Recycled Water Unit Chief
Recycled Water Unit
Division of Drinking Water
State Water Resources Control Board
1350 Front St., Rm. 2050
San Diego, CA 92101

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