



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

14306 Park Avenue Victorville, CA 92392-2310  
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

**PERMIT TO OPERATE**

C013879

Operation under this permit must be conducted in compliance with all information included with the initial application, initial permit condition, and conditions contained herein. The equipment must be maintained and kept in good operating condition at all times. This Permit to Operate or copy must be posted on or within 8 meters of equipment. If a copy is posted, the original must be maintained on site, available for inspection at all times.

**EXPIRES LAST DAY OF: JANUARY 2027**

**OWNER OF OPERATOR (Co.#2370)**

Hi-Desert Water District  
55439 Twentynine Palms Highway  
Yucca Valley, CA 92284

**EQUIPMENT LOCATION (Fac.#3932)**

Hi-Desert Wastewater Reclamation - Barron Drive  
59280 Barron Drive  
Yucca Valley, CA 92284

**Description:**

ODOR CONTROL DEVICE, ACTIVATED CARBON WITH CALCIUM-AMMONIUM-NITRATE INJECTION consisting of: (1) An Integrity model MCS-024S activated carbon filtration system with a 150 acfm airflow rate at a maximum 6.5" water column pressure differential. The single bed holds a nominal 283 pounds of activated carbon. and (2) A Bioxide (TM) injection system using Calcium Ammonium Nitrate with a maximum flow rate of 38 gallons per day, supplied from a 1,000 gallon storage tank.

**CONDITIONS:**

1. This equipment shall be installed, operated and maintained in strict accordance with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rules 204]
2. The concentration of hydrogen sulfide at the outlet of the air pollution control system shall be measured and recorded at least once a week. [District Rule 204]
3. The Bioxide (TM) (Ammonium Calcium Nitrate) system shall be operated in conjunction with the activated carbon system. The injection rate shall not exceed 100 ml/minute (1.6 gallons/hour) without first requesting a change to this permit. [District Rules 204 and 1302]

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 4952

SCC: 50100719

Location/UTM(Km):  
558E/3777N

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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By: **COPY**  
**Eldon Heaston**  
Air Pollution Control Officer

4. Whenever the concentration of the hydrogen sulfide in the final exhaust exceeds 1.3 ppm, the activated carbon must be replaced.  
[District Rule 204]

5. The owner/operator shall conduct odor surveys (smell test) at the facility's downwind property line and at the facility's property line closest to the nearest residence on a monthly basis or more frequently if requested to do so by the District. Any detection of odor shall be documented and corrective action shall be taken within 24 hours to reduce the odors at the property line(s) to below detectable limits. If a testing unit is used, the reading at the property line shall not exceed 0.2 ppm.  
[District Rule 402]

6. If odors become a nuisance to a considerable number of persons or to the public, the H<sub>2</sub>S emission limits given in conditions 4 and 5 will be revised downward.  
[District Rules 402 and 1302]

7. The owner/operator shall maintain a log onsite which includes at a minimum:

- a. Date and time of all malfunctions, maintenance, and repairs to the system;
- b. Weekly hydrogen sulfide measurements;
- c. Results of all property line odor surveys and corrective actions taken if necessary;
- d. Dates and times of all activated carbon changeouts; and
- e. Copies of all odor complaints and corrective actions taken.

This log shall be maintained onsite for a minimum of two years and made available to District, State, or Federal compliance personnel upon request.  
[District Rule 204]

8. The Activated Carbon System shall not be out of service for more than 24 hours during each activated carbon bed replacement.  
[District Rule 204]

9. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.  
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]