



**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT**

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

**INACTIVE**

C011476

Inactive type Permit has no description information.

**EXPIRES LAST DAY OF: MARCH 2020**

**OWNER OF OPERATOR (Co.#1911)**

ARCADIS-US, Inc.  
101 Creekside Ridge Ct, Fl 2  
Roseville, CA 95678-3595

**EQUIPMENT LOCATION (Fac.#3345)**

Arcadis US - Baker  
72058 Baker Blvd.  
Baker, CA 92309

**Description:**

THERMAL/CATALYTIC OXIDIZER consisting of: Baker Furnace, Model SX300, Soil vapor extraction system including vapor extraction wells, extraction blower, maximum flow rate 300 SCFM, Thermal Oxidizer- direct gas fired with a fully modulating temperature control system, Catalytic Oxidizer- propane gas preheated, 1,200,000 BTU/hr, 0.3 ft3 of active catalyst volume, with a fully modulating temperature control system, and exhaust stack, minimum 13.75 height.

**CONDITIONS:**

1. The owner/operator (o/o) shall operate this equipment in strict compliance with all the information submitted with the application for which this permit has been issued, unless specifically exempted hereunder.
2. This equipment shall be properly maintained and kept in good operating conditions at all times.
3. This system shall achieve a minimum destruction efficiency of 96 percent (by weight) from inlet to atmosphere, or shall not exceed 50 ppmv VOC (as hexane) to atmosphere.
4. During operations, determinations for VOC as hexane, or equivalent, shall be made using an ionization detector (FID, PID or other method determined to be equivalent by the District). Monitoring shall be for at least the first 3 consecutive hours on the first day of start-up. Monitoring may be reduced to monthly following start-up, but shall consist of, at a minimum, (bag or canister) extracted samples analyzed according to USEPA method TO-15 (or alternative method as approved by the District), until the project is completed.

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 4939

SCC: 50410314

Location/UTM(Km):  
466E/3957N

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

5. Emissions determinations shall be conducted at both the inlet to and the outlet of the catalytic oxidizer/combustor.
6. FID, PID or equivalent shall be considered invalid if not calibrated on the day of required use.
7. The o/o shall maintain current and on-site for the duration of the project a log of the following information, in a District-approved form, which shall be provided to District personnel upon request, with date and time where appropriate:
  - a. Blower induced vacuum in inches of mercury;
  - b. Vapor flow rate, in standard cubic feet per minute;
  - c. Thermal and Catalytic Oxidizer temperature in degrees Fahrenheit;
  - d. Ionization detector readings; and,
  - e. Test results.
8. Prior to January 31 of each year, the o/o of this unit shall submit to the District a summary report, using District approved format, of all VOC emissions (as hexane), benzene emissions and total fuel use for the previous calendar year.
9. A flow indicator shall be installed and maintained at the inlet to the vapor control system to indicate the vapor flow rate in standard cubic feet per minute (SCFM). The flow rate shall not exceed 300 SCFM. In case a pressure sensor device is used in place of the flow indicator, a conversion chart shall be available to interpret the flow rate, in SCFM, corresponding to the pressure reading. The flow rate shall be recorded on a weekly basis.
10. Thermal Oxidizer;  
A temperature measurement and recording device with an accuracy of plus or minus 20 degrees Fahrenheit shall be installed and maintained in the inlet to the vapor control system. Whenever the vapor control system is in operation, the temperature in the combustion chamber of the thermal oxidizer shall be at least 1400 degrees Fahrenheit.
11. Catalytic Oxidizer;  
A temperature measurement and recording device with an accuracy of plus or minus 5 degrees Fahrenheit shall be installed and maintained at the inlet to the catalyst bed. Whenever the vapor control system is in operation, the temperature at the inlet to the catalyst bed shall be at least 600 degrees Fahrenheit. O/o shall maintain records of catalyst cleaning and replacement frequency.
12. At the completion of the use of this unit, the o/o shall cap off all well heads and provide all unit operations and emissions data in the form of a summary report within 30 days.