



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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

AUTHORITY TO CONSTRUCT

C013513

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: JUNE 2026

OWNER OF OPERATOR (Co.#138)

Terrible Herbst, Inc.
5195 Las Vegas Blvd.
Las Vegas, NV 89118

EQUIPMENT LOCATION (Fac.#3945)

Terrible Herbst - Main
1700 and 1710 East Main Street
Barstow, CA 92311

Description:

SOIL REMEDIATION EQUIPMENT consisting of: portable High Vacuum Dual Phase Extraction System (HVDPE) manufactured by Soil-Therm. Includes a thermal oxidizer/catalyst; model 2002 LR-EN, serial number 04-9141. Combustion chamber is 14 inches long with a 144 sq inch cross section; a Johnson-Matthey pmg catalyst. Inlet temperature is 700 degrees F and combustion operating temperature is 1400+ degrees F. Thermal oxidizer may be fired on propane or natural gas and has rating of 1.4 MMbtu/hr. Minimum destruction efficiency is 99% and maximum is 99.9%. Flow rate is 700 acfm. Facility elevation is 2109 feet above sea level.

CONDITIONS:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

[District Rule 204]

2. This equipment shall be properly maintained and kept in good operating conditions at all times.

[District Rule 204]

3. Upon completion, any vapor extraction wells and ducts shall be capped to prevent vapors from venting to the atmosphere. Vapors shall not be extracted from the soil unless they are vented to the vapor control system, with no detectable leak between the outlet of the extraction blower and the outlet of the vapor control system.

[District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 2007

SCC: 50410314

Location/UTM(Km): 500E/3860N

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.

Terrible Herbst, Inc.
Attn: Ben Scott

Las Vegas, NV 89119

By: **COPY**

Brad Poiriez

Air Pollution Control Officer

4. An identification tag or nameplate shall be displayed on the equipment to show manufacturer, model no. and serial no. The tag(s) or plate(s) shall be issued by the manufacturer and shall adhere to the equipment in a permanent and conspicuous position.
[District Rule 204]

5. Current contact person name, company and phone number shall be displayed in a permanent and conspicuous position.
[District Rule 204]

6. A continuous flow indicator and recorder shall be installed and maintained at all inlet streams to the vapor control system to indicate the total vapor flow rate in cubic feet per minute (cfm) and combustion chamber temperature, which shall be kept at a minimum of 1400 degrees F. The total flow rate shall not exceed 400 scfm. If a pressure sensor device is used in place of the flow indicator, a conversion chart shall be made available to indicate the corresponding flow rate, in cfm, to the pressure reading. The flow rate at the inlet to the vapor control system shall be measured and recorded at least once during each monitoring visit while the equipment is operating.
[District Rules 204 and 1320]

7. Daily concentrations of Total Organic Compounds (TOC) shall be measured at the outlet of the soil remediation system during the first seven days of operation, and once every seven days thereafter, by using a Flame Ionization Detector (FID) or a Photo Ionization Detector (PID) or an MDAQMD approved Organic Vapor Analyzer (OVA) calibrated in parts per million by volume (ppmv) as hexane. If another calibrating agent is used, it shall be correlated to and expressed as hexane. The analyzer shall be maintained and calibrated per EPA Method 21. Calibration shall be performed prior to each monitoring visit.
[District Rules 204 and 1320]

8. Grab samples shall be collected and analyzed once during the first week of operation for total organic compounds and speciated for toxic compounds of benzene, toluene, ethylbenzene, total xylenes, and Methyl tert-butyl ether (MTBE) as follows:

- a. Samples shall be collected at the inlet and outlet of the soil remediation system.
- b. Sampling shall conform to CARB Method 422 or equivalent. Samples with high moisture shall be collected using an appropriate method such as SCAQMD Method 25.1/25.3 or other methods approved by the MDAQMD.
- c. Analysis shall be conducted using EPA method 8015 and EPA method 8260 or other method approved by the MDAQMD.

[District Rules 204 and 1320]

9. The concentration of Total Organic Compounds (TOC) at the outlet of the soil remediation system shall not exceed 310 ppmv, measured as hexane.
[District Rules 204 and 1320]

10. The concentrations of the carcinogenic compound Benzene measured in the exhaust shall not exceed 2.80 ppmv.
[District Rules 204 and 1320]

11. Prior to operating this equipment at a new location, the MDAQMD shall be notified within 10 days via email to reporting@mdaqmd.ca.gov of the exact nature of the project as follows:

- a. The permit number of the portable equipment.
- b. The name and phone number of a contact person.
- c. The location where the portable equipment will be operated.
- d. The project start date and the estimated project completion date.
- e. Description of the project.

[District Rules 204]

12. 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:

- b. Oxidizer flow rate, in actual cubic feet per minute;
- c. Oxidizer temperature in degrees Fahrenheit; and
- d. Ionization detector readings.

[District Rules 204 and 1320]

13. Prior to January 31 of each calendar year or within thirty days of completion, the owner/operator of this equipment shall submit to the District a VOC emissions summary report in a District approved format. The report shall be electronically submitted to:

reporting@mdaqmd.ca.gov.
[District Rules 204 and 1320]

14.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]