



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

B015223

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: NOVEMBER 2025

OWNER OF OPERATOR (Co. #3077)

Essential Co, LLC
2222 E Olympic Blvd
Los Angeles, CA 90021

EQUIPMENT LOCATION (Fac. #4526)

Essential Co
17317 Muskrat Ave
Adelanto, CA 92301-2283

Description:

PLANT OIL EXTRACTION SYSTEM AND PURIFICATION PROCESSES, CANNABIS consisting of: One Extractiontek X4, Model: MEP-30 closed-loop extraction system utilizing Butane or Propane. One ChemTek, Diamond Miner for THC crystallization. Ethanol post extraction refinement using a roto evaporator, chillers, circulators, heating columns, heat reactors and heat baths. One exempt Kootenay KFI 1500SL 110.2 lb replaceable carbon canister handling 1762 cfm and exhausting within the building through a 12 inch diameter duct

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 Rule 1302]

2. The only volatile organic compound (VOC) solvents that can be used in the closed loop Oil Extraction process are butane and propane. Prior to changing solvent type, the owner/operator must apply for a permit modification and have the approved, modified permit before use. [District Regulation XIII]

3. A log pertaining to the operation of this equipment must be kept for a period of two (2) years. The last two years' records must be kept on site, and must be made available upon request of District personnel. This log shall contain the following information:
a. The date and hours of operation each time the Oil Extraction process is run; and,

Fee Schedule: 7 (i)

Rating: 1 device

SIC: 191

SCC: 30299998

Location/UTM(Km): 459E/3825N

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**
Brad Poiriez
Air Pollution Control Officer

b. Daily, monthly, and calendar year totals of the gallons of solvent used and solvent emitted (recorded in pounds) from this equipment; and,
c. Copies of the Environmental Data Sheet and/or Safety Data Sheet (SDS) for each solvent and material used in the Oil Extraction process.
[District Rules 442 and 1302]

4.The owner/operator must take all steps necessary to preclude odor migration from this facility, including but not limited to, odor management system operation, keeping doors and windows closed to the maximum extent possible, isolating odor-emitting activities from other areas of the buildings through closing doors and windows, and operating air filters continuously during cultivation activities.
[District Rule 402]

5.All VOC containing materials, whether in its form for intended use or as a waste or used product, shall be stored in nonabsorbent, non-leaking containers which shall be kept closed at all times, except when filling or emptying, and disposed of in a manner to prevent evaporation of VOCs into the atmosphere at the Facility. For the purposes of this facility, VOC containing materials are the solvents used for extraction/purification processes (butane, propane and ethanol). VOC containing materials do not include the cannabis materials such as leaves, post-processed plant material, or end-use cannabis products.
[District Rule 442 - Usage of Solvents]

6.This facility shall not have a loss of more than 75 gallons (494 pounds) per month of ethanol, nor more than 125 gallons (607 pounds) per month of butane and propane. For compliance purposes, this shall be determined by weighing the solvent vessels/containers before and after extraction processes/usage.
[District Rule 442 - Usage of Solvents]

7.This facility shall not consume more than 900 gallons (5,927 pounds) per year of ethanol, nor more than 1,500 gallons (7,290 pounds) per year of butane and propane. For compliance purposes, this shall be determined by weighing the solvent vessels before and after extraction processes/usage.
[District Rule 1302]

8.This facility shall not emit greater than 1,190 pounds per month Volatile Organic Compounds (VOCs).
[District Rule 442 - Usage of Solvents]

9.This equipment shall not emit more than 19.9 tons per year Volatile Organic Compounds (VOCs).
[District Rule 204]

10.If this facility uses any non-VOC organic solvents, including (but not limited to) acetone, dimethyl carbonate, propylene carbonate or methyl acetate, this facility shall not discharge into the atmosphere more than 600 pounds per day as calculated on a thirty (30) day rolling average.
[District Rule 442 - Usage of Solvents]

11.No internal combustion engines with a maximum rated power of 50 bhp or greater may be used at this facility without first obtaining an additional operating permit from the District.
[District Rules 203, 204, and 219]

12.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]