



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

C010823

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: JUNE 2025

OWNER OF OPERATOR (Co.#1021)

SBCo Solid Waste Management
222 West Hospitality Lane, 2nd Floor
San Bernardino, CA 92415-0017

EQUIPMENT LOCATION (Fac.#3171)

SBCo - Landfill/Big Bear
38550 Holcomb Valley Road
Big Bear, CA 92314

Description:

LANDFILL GAS COLLECTION AND CONTROL SYSTEM consisting of: associated Landfill identified as SWIS Number 36-AA-0056 and Classified as Closed; Ceased Op Date is 12/15/2001; see: <http://www.calrecycle.ca.gov/SWFacilities/Directory/36-AA-0056/Detail/> The MSW Landfill has a Waste in Place and Heat Input Capacity of 477,000 tons (0.433 Megagrams) and 1.3 MMBTU/hr respectively, which was last provided in 2010. It has a Design Capacity of 1.2 Million Cubic Yards = 917,466 Cubic Meters (0.917 Million Cubic Meters). These values are below the applicability thresholds of 40 CFR 60 Subpart Cc and 40 CFR 60 Subpart WWW, which are 2.5 Million Megagrams and 2.5 Million Cubic Meters. Landfill is no longer subject to the the Landfill Methane Regulation as it is closed with a WIP of over 450,000 tons, and a most recent HIC of less than 3.0 MMBTU/hr. See: 17 CCR 95463(b)(1)(B); <https://www.arb.ca.gov/regact/2009/landfills09/landfillfinalfro.pdf> This Landfills Gas Collection and Control System (GCCS) is an Air Pollution Control System for VOC's, and not a control for Landfill Methane. Facility Elevation is 6901 feet above sea level.

EQUIPMENT

Capacity	Equipment Description
0	Vertical Extraction Wells - upto 84 divide between the following:
0	Soil Vapor Extraction (SVE) Wells
0	Landfill Gas (LFG) Well
0	Manual Condensate Tanks - 2 each
0	Landfill Gas/Knockout Vessel (V-1): Manufactured by: Real Environmental Products, Series 8000 Knockout Vessel with Demister Filter pad; design flow rate of up to 500 scfm LEG.
25	Blower (B-1A/operating and B-1B/spare): Manufactured by: Gardner-Denver Type: Multistage centrifugal with cast iron inlet and outlet heads, Model: 4206, Motor: 25 HP premium efficient electric motor.

Fee Schedule: 7 (h) Rating: 1 device SIC: 4953 SCC: 50100406 Location/UTM(Km): 517E/3796N

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.

SBCo Solid Waste Management
222 West Hospitality Lane, 2nd Floor
San Bernardino, CA 92415

By: **COPY**
Brad Poiriez
Air Pollution Control Officer

Capacity	Equipment Description
0	Flow Element/Flow Transmitter (FE/FT-1): Manufactured by: Sage, Model Prime, Thermal Mass Flow Meter, 0-500 scfm
0	Carbon Adsorption Vessels V-2A/B/C: Manufactured by: Tetra Solv, Model VFV-2000, carbon adsorption vessels, 3 canisters each containing 2,000 lbs of Granular Activated Carbon (GAG) to adsorb the non-methane contaminants in the LFG, design flow rate of up to 500 scfm LEG, or equal. Two canisters in series, one as back-up.
0	Potassium Permanganate (KMN) Vessels V-3A/B: Manufactured by Tetra Solv, Model-VFV-1000 KMN vessels, 2 canisters each containing 2,000 lbs. of KMN media to remove by oxidation the lighter fraction Non-Methane Non-Ethane Organic Compounds (NMNEOCs) (e.g. vinyl chloride) in the LFG, design flow rate of up to 500 scfm LFG, or equal. One In series, post GAC, and one as back-up.
0	Flame Arrestor FA-1: Manufactured by: Enardo, Model 70806/D-A 4R-13, 4-Inch diameter, Aluminum Housing, Stainless Steel (SS) Element, Concentric Horizontal Type, or equal.
0	Exhaust Vent Stack: 15-feet tall, 4-inch diameter, CPVC, Sch. 80 pipe.

CONDITIONS:

1.The owner/operator, (o/o), shall install, operate and maintain this unit in strict accord with all the information submitted with the application. The application and submittals are incorporated in their entirety into this permit and act as specific limitations on the permit unless specifically exempted hereunder.

[District Rule 204]

2.The o/o shall take the following samples;

A. Initial operation or following the addition of wells, for first 6 months, on a weekly schedule:

1. Gas composition and flow rate from each Vertical Soil Vapor Extraction (SVE) Wells.
2. Granular activated carbon (GAC) vessels - inlet and outlet - for total Gaseous Non-Methane Organic Compounds (TGNMOC) using a photo ionization detector (PID) calibrated to hexane.

B. Initial operation or add additional wells for first 6 months on a monthly schedule:

1. Collect a sample in a Tedlar bag and analyze for TGNMOC and SCAQMD core group of Toxic Air Contaminates (TAC) compounds.

C. After first 6 months on a quarterly schedule:

1. Collect a sample in a Tedlar bag and analyze for TGNMOC and SCAQMD core group of TAC compounds.

[District Rules 204, and 1302(C)(2)(a)]

3.The o/o shall maintain a log that contain at least the following items:

- A. Dates of measurements and analyses,
- B. Name of operator taking the data,
- C. All flow rates,
- D. Sample analyses,
- E. Inclusive of calibration gas concentrations,
- F. Date new SVE and/or LFG wells are added or relocated, and
- G. Location and identification name of new or relocated well.

The log shall be maintained current, kept for the duration of the project and made available to District personnel on request.

[District Rule 204]

4.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]