



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

C008239

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. #2443)

SBCo - Landfill/Victorville
18600 Stoddard Wells Road
Victorville, CA 92392

Description:

LANDFILL, GAS EXTRACTION AND FLARING SYSTEM consisting of: This facility includes the following equipment described as the landfill gas collection and control system (GCCS): One (1) LFG, Enclosed flare (5.4 to 54 million British Thermal Units per hour (MMBtu/hr)), manufactured by LFG & E, Landfill Gas Knockout Vessel/Fuel Filter (V-I), Two Blowers (75 hp), manufactured by Hoffman and variable frequency drive (VFD) (250 to 2,000 standard cubic feet per minute (scfm)), Flame Arrester (FA-1), Flow Element Pitot (FE-1), Air Compressor Assembly (CMP-1A/B with spare, 88 scfm at 125 psi), Primary Condensate Holding Tank (5,000 gallon), Secondary Condensate Holding Tank (6,600 gallon), Landfill Gas header and laterals. Landfill Gas Condensate Pneumatic Pump Stations VSL is further described as SWIS (Solid Waste Information System) Number 36-AA-0045 and classified as active. VSL has a maximum permitted capacity of 93.4 million cubic yards (greater than 3.27 million cubic yards); a facility area of 491 acres; and a disposal area of 341 acres. Under CalRecycle permit, VSL is permitted to receive 3,000 tons per day; normally receives an average of 1,400 tons per day. VSL has a Waste In Place of 11.184 million tons (greater than 2.75 million tons), as reported March 13, 2017; and a Heat Input Capacity of 34.4, which was last reported in 2014.

CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of 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 204]

2. All landfill gas collected from this landfill shall be directed to the flare for destruction.
[District Rule 204]

Fee Schedule: 11 (N/A) Rating: 1 device SIC: 9511 SCC: 50100402 Location/UTM(Km): 475E/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.

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

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

3.A sufficient number of sight glass windows shall be maintained in the flare to allow visual inspection of the flare flame at all times. Adequate and safe access shall be provided to all sight glass windows.

[District Rule 204]

4.The owner/operator shall provide sampling ports necessary to perform source tests required to verify compliance with District rules, regulations and permit conditions. The location of these ports and platforms shall be subject to District approval.

[District Rule 217]

5.A sampling port shall be maintained at the landfill gas inlet line to allow the collection of a landfill gas sample.

[District Rule 217]

6.The flare shall be equipped with at least four thermocouples and recorder which measures and records the gas temperature in the flare stack. The temperature indicator and recorder shall operate whenever the flare is in operation.

[District Rule 204]

7.At least one of the thermocouples used to measure the flare temperature shall be above the flame and at least four feet below the top of the flare shroud and at least 0.6 seconds downstream of the burner.

[District Rule 204]

8.At all times that the flare is in operation, the owner/operator must maintain a temperature of at least 1400 degrees Fahrenheit in the flare stack 0.6 seconds downstream of the burner, except during flare start up and shut down for a period not to exceed 30 minutes in length. The temperature must be monitored and measured by the temperature indicator and recorder and must be averaged at 15 minute intervals.

[District Rule 204]

9.The owner/operator must continuously monitor the landfill gas flow rate to the flare using a flow indicator and recorder.

[District Rule 204]

10.The owner/operator must install and maintain a pressure differential indicator across the flame arrester.

[District Rule 204]

11.Oxides of nitrogen emissions from the flare shall not exceed 0.06 pounds per MMBtu of heat input.

[District Rule 204]

12.The owner operator shall perform the following compliance tests once every twelve (12) months in accordance with the District's Compliance Test Procedural Manual. The following compliance tests are required at the maximum achievable flow rates at the time of the test (inlet refers to flare landfill gas inlet and exhaust refers to flare exhaust):

- (a) Non-methane hydrocarbons in lbs/hr (inlet and exhaust);
- (b) Non-methane hydrocarbons in ppmv (as hexane at 3% oxygen at the exhaust);
- (c) Oxides of nitrogen in lbs/MMBtu (exhaust);
- (d) PM10 in lbs/hr (exhaust);
- (e) Hydrogen sulfide in lbs/hr (inlet and exhaust) [District Rule 431];
- (f) Carbon dioxide as percent by volume dry (inlet and exhaust) [District Rule 407];
- (g) Oxygen as percent by volume dry (inlet and exhaust);
- (h) Moisture content as percent by weight (inlet and exhaust)
- (i) Temperature in Fahrenheit (inlet and exhaust), and
- (j) Flow rate in dscfm (inlet and exhaust)

[District Rules 204, 404, 407, 409, and 431]

The owner operator shall conduct all required compliance and certification tests in accordance with a District approved test plan. Thirty (30) days prior to the compliance certification tests the operator shall provide a written test plan for District review and approval. Written notice of the test shall be provided to the District ten (10) days prior to the tests so that an observer may be present. A written report with the results of such tests shall be submitted to the District within forty-five (45) days after testing. All protocols, notifications, and test results must be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rule 204]

13. All reports, tests, results, and emissions information, shall be submitted electronically to the District at reporting@mdaqmd.ca.gov, and the California Air Resources Board (CARB) at: LMR@arb.ca.gov.

[District Rule 204]

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]

15. This facility is subject to the Regulation to Achieve Greenhouse Gas Emission Reductions - Methane Emissions from Municipal Solid Waste Landfills [17 CCR 95460 - 95476]. Under this regulation, this facility is defined as an Active MSW Landfill Greater Than or Equal to 450,000 tons of Waste-in-Place [95463(b)]. This facility has a calculated landfill gas heat input capacity (HIC) greater than 3.0 MMBtu/hr [95463(b)(2)]; and has opted to demonstrate compliance using a Gas Collection and Control System with an enclosed flare as specified under the Equipment Description [95464 -95476]. Since this California plan is only partially approved by EPA, this facility is also subject to the following provisions of 40 CFR 62, Subpart OOO: 40 CFR 62. 16716(c); 62.16720(a)(4); 62,16722(a)(2) and (a)(3); 62.16724(k); and 62.16726(e)(2) and (5).

The requirements of Part III, Section A of their Title V Permit (FOP 102102443) [17 CCR 95460 - 95476] apply at all times.

16. This facility is subject to the National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills [40 CFR 63, Subpart AAAA]. Under this regulation, this facility is defined as an existing, area source, MSW landfill, that has a design capacity equal to greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m³) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to 40 CFR 63.1959. [63.1935(a)(3)]. Under this regulation, the Gas Collection and Control System as specified under the Equipment Description (Part I, Section C of this permit) is considered an Active Control System.

The requirements of Part III, Section B of their Title V Permit (FOP 102102443) [40 CFR 63, AAAA] apply at all times, including during periods of startup, shutdown, and malfunction (SSM), and the SSM requirements of the General Provisions of 40 CFR 63 do not apply. [40 CFR 63.1930(b)]