



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

C010802

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: OCTOBER 2024

OWNER OF OPERATOR (Co. #1021)

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

EQUIPMENT LOCATION (Fac. #3400)

SBCo - Landfill/Landers
5200 Winters Rd.
Landers, CA 92285

Description:

SOIL VAPOR EXTRACTION AND LANDFILL GAS COLLECTION AND CONTROL SYSTEM consisting of: associated Landfill identified as SWIS (Solid Waste Information System) Number 36-AA-0057 and Classified as Active; see:

<http://www.calrecycle.ca.gov/SWFacilities/Directory/36-AA-0057/> The MSW Landfill has a maximum permitted capacity of 13,983,500 cubic yards (10.69 million cubic meters), and a Design Capacity exceeding 2.5 Million Megagrams. The owner operator has indicated that they plan to modify the existing GCCS in order to reduce ground water contamination; once that modification occurs, the facility will trigger Subpart XXX thresholds as it will have commenced construction, reconstruction, or modification after July 17, 2014, and therefore triggers volume and waste applicability thresholds of 40 CFR 60 Subpart XXX, which are 2.5 Million Cubic Meters and 2.5 Million Megagrams, respectively. Additionally, it is anticipated that the facility will emit more than 34 Mg/yr of NMOC, the NMOC emissions threshold of Subpart XXX. Waste In Place exceeds 2.46 million tons (2.23 million megagrams); which is Greater Than 450,000 Tons. Heat Input Capacity, HIC = 0.052; Less than or equal to 3.0, was provided on Report Dated 03-15-22 for the 2021 emissions year. Facility area of 637 acres and a disposal area of 92 acres. Landfill is permitted to receive 1200 tons/day of Waste Type: Construction, demolition, Industrial, Mixed municipal, Other designated, Sludge (Bio Solids), Tires. Landfill is subject to the requirements of California's Landfill Methane Regulation, 17 CCR Sections 95460 through 95476:

<https://www.arb.ca.gov/regact/2009/landfills09/landfillfinalfro.pdf> This Landfill's Gas Collection and Control System (GCCS) is an Air Pollution Control System for VOCs and NOT a control for Landfill Methane. Facility Elevation is 3278 feet above sea level.

EQUIPMENT

Capacity	Equipment Description
0	Soil Vapor Extraction (SVE) Wells
0	Landfill Gas (LFG) Well
0	Manual Condensate Tanks - 2 each

Fee Schedule: 1 (b) Rating: 49bhp SIC: 4953 SCC: 50100406 Location/UTM(Km): 556E/3792N

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	Landfill Gas Filter and Knockout Vessel - 1 each - #V-1
15	Gas Blower #B-1
15	Gas Blower #B-2
0	Flame Arrestors FA-1
0	Adsorption Vessel 2,000 lbs granular activated carbon (GAC) - #V-2A
0	Adsorption Vessel 2,000 lbs granular activated carbon (GAC) - #V-2B
0	Vent stack, minimum 15 foot high
0	Sump #2
0	Adsorption Vessel 2,000 lbs granular activated carbon (GAC) - #V-2C
0	Sump #1
0	Sump #3
7.5	Compressor 1A
7.5	Compressor 1B
0	Electrical Control And Panels
0	Condensate Storage Tank With Level Transmitters
49	Diesel Generator < 49 BHP

CONDITIONS:

1.The owner/operator, 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 owner operator 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) and or Landfill Gas (LFG) Extraction Well.
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 Contaminant (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 owner operator 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.This landfill is subject to the requirements of this District Permit, and 17 CCR sections 95460 to 95476;

<https://www.arb.ca.gov/regact/2009/landfills09/landfillfinalfro.pdf>. In the event of conflict, the more stringent requirements shall govern.

[District Rule 204]

5.This facility has a design capacity that exceeds 450,000 tons of waste in place (WIP); therefore, the owner operator must submit to

the District, and CARB, an annual Landfill Gas Heat Input Capacity Report (HIC) for the period of January 1 through December 31 of each year, submitted no later than March 15th of each year. This report must be prepared using the calculations specified in 17 CCR 95471(b).

[17 CCR 95463(b)]

6.All Heat Input Capacities, tests, results, and Emissions information, including Methane Emissions, shall be submitted electronically to the MDAQMD at reporting@mdaqmd.ca.gov, and the California Air Resources Board (CARB) at: LMR@arb.ca.gov.

[District Rule 204]

7.The owner operator shall submit to the District and the California Air Resources Board (CARB) semi-annual reports of the measurements of NMOC, flow rates and destruction removal efficiencies. Further the owner operator shall submit to the District an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures as allowed by Rule 1126 (note that the APCO may approve alternate record keeping and reporting provisions).

[District Rule 204, District Rule 1126]

8. If the HIC results in a value greater than or equal to 3.0 MMBTU/hr, the owner operator must either perform a surface monitoring demonstration in accordance with 17 CCR 95463(b)(2)(B), or alter the existing Gas Collection and Control System (GCCS) in accordance with 17 CCR 95464.

9. In lieu of altering the existing GCCS, when the annual HIC report results in a value greater than or equal to 3.0 MMBTU/hr, the owner operator must perform instantaneous and integrated Surface Methane Emissions (SME) monitoring, pursuant to 17 CCR Section 95463(b)(2)(B) and 95471(c). The owner operator must demonstrate to the satisfaction of the MDAQMD and CARB that after four consecutive quarterly monitoring periods there is no measured concentration of methane of 200 parts per million by volume (ppmv) or greater.

If there is any measured concentration of methane of 200 ppmv or greater from the surface the owner operator must comply with sections 95464 through 95476.

If there is no measured concentration of methane of 200 ppmv or greater from the surface the owner operator must recalculate the landfill gas heat input capacity annually as required in section 95463(b).

[Title 17 CCR 95463(b)(2)(B)]

10. If a GCCS must be installed, the facility must:

- a. Meet the requirements of 17 CCR 95464, and
- b. Prior to altering or installing equipment, obtain a District approved Authority to Construct (ATC) permit.

[17 CCR, Sections 95463(b), 95470(b)(5), and 95471(b)]

11.If a SME monitoring plan is required, it must consist of 50,000 square foot monitoring grids. It shall also consist of a 25 feet spacing for the initial walking pattern, which may be extended to a 100 feet spacing after 4-consecutive quarters of no leaks. The owner operator must perform and record SME values, dates, and grid point. The owner operator must highlight any instantaneous monitoring value that exceeds 200 ppm and must highlight any Integrated Monitoring value that exceeds 25 ppm. Corrective action is required for instantaneous measurements above 500 ppm and integrated measurements above 25 ppm.

[17 CCR Subsection 95471]

12.Since this MSW Landfill has a Carbon Adsorption System, the landfill gas heat capacity must be determined by measuring the actual total landfill gas flow rate, in standard cubic feet per minute (scfm), using a flow meter or other flow measuring device such as a standard pitot tube and methane concentration (percent by volume) using a hydrocarbon detector meeting the requirements of 95471(a). The total landfill gas flow rate must be multiplied by the methane concentration and then multiplied by the gross heating value (GHV) of methane of 1,012 Btu/scf to determine the landfill gas heat input capacity.

[17 CCR Section 95471(b)(2)]

13.The owner operator must keep the records as specified in 17 CCR 95470, as applicable, and provide to the MDAQMD and CARB upon request.

[17 CCR 95470]

14. Prior to modifying the existing Gas Collection and Control System, the owner operator shall submit a permit modification application and receive a fully approved Authority to Construct permit.

[District Rule 201]

15. 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]