TITLE V OPERATING PERMIT SIGNIFICANT MODIFICATION Program Interest (PI): 78931 / Permit Activity Number: BOP220002

I. FACILITY INFORMATION

Ocean County Landfill Corp. is located at 2498 Route 70, Manchester, NJ 08759, Ocean County and consists of an active municipal solid waste landfill. The facility is owned and operated by Ocean County Landfill Corp.

The facility is classified as a major facility based on its potential to emit 60.69 tons per year of nitrogen oxides.

This permit allows individual hazardous air pollutants to be emitted at a rate not to exceed: 9.17 tons per year of hydrogen chloride, 0.01 tons per year of 1,1,2- trichloroethane, 0.01 tons per year of 1,2- dichloroethane, 0.079 tons per year of benzene, 0.023 tons per year of ethylbenzene, 0.048 tons per year of vinyl chloride, 0.049 tons per year of naphthalene, and 0.023 tons per year of 1,4- dichlorobenzene.

II. AREA ATTAINMENT CLASSIFICATION

The Federal Clean Air Act (CAA) sets National Ambient Air Quality Standards (NAAQS) for six common air pollutants. These commonly found air pollutants (also known as "criteria pollutants") are particulate matter, ground-level ozone, carbon monoxide (CO), sulfur dioxide (SO2), nitrogen dioxide (NO2), and lead. The US Environmental Protection Agency (USEPA) also classifies areas as "attainment" or "nonattainment" for each criteria pollutant, based on the magnitude of an area's problem. Nonattainment classifications are used to specify what air pollution reduction measures an area must adopt, and when the area must reach attainment. Currently, the entire State of New Jersey is designated as nonattainment for the 8-hour ozone NAAQS. New Jersey is designated attainment for all other pollutants. For nonattainment classification refer to https://www.epa.gov/green-book/green-book-national-area-and-county-level-multi-pollutant-information.

III. BACKGROUND AND HISTORY

The equipment that emits air contaminants from this facility include: a municipal solid waste landfill equipped with an active gas collection and control system venting to two enclosed flares CD1 and CD10 and one open flare CD11 with no less than 98% reduction efficiency for volatile organic compound emissions. Also, the landfill includes leachate treatment equipment, two screeners for soil screening and a 250 kW emergency diesel generator.

Health Risk Assessment was conducted as part of the review of this permit application and health risk was determined to be negligible consistent with NJDEP Technical Manual 1003.

This is a Permit Modification and includes the following changes:

This modification proposes to implement OCLC's Sustainable Landfill Project (SLP) to provide increased landfill disposal capacity enabling OCLC to continue disposal services to the residents and communities of Ocean County.

Under Emission Unit U64, the 232 ppm VOC concentration in LFG is derived from the default NMOC concentration that was used in the estimation of the uncollected VOC emissions.

This modification will also change the facility-wide emission limits as listed in the following table:

	Facility's Potential Emissions (tons per year)*									
Allowable Emission Limits	VOC (total)	NOx	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)	CO ₂ e (total)
Current Permit	21.49	59.64	91.98	27.93	32.03	23.28	18.01	NA	11.69	476,100
Proposed Permit	23.01	57.84	89.77	27.93	31.27	22.91	18.01	NA	9.88	476,100

STATEMENT OF BASIS for OCEAN COUNTY LANDFILL CORP.

TITLE V OPERATING PERMIT SIGNIFICANT MODIFICATION

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Cha	inge (+ / -)	+1.52	-1.8	-2.21	0	-0.76	-0.37	0	NA	-1.81	0		
 VOC Volatile Organic Compounds NO_x Nitrogen Oxides CO Carbon Monoxide SO₂ Sulfur Dioxide 							PM ₁₀ PM _{2.5} Pb HAPs	Parti Leac	Particulates under 10 microns Particulates under 2.5 microns Lead Hazardous Air Pollutants				
TSP	P Total Suspended Particulates						CO ₂ e	Carb	Carbon Dioxide equivalent				

* Other Any other air contaminant regulated under the Federal Clean Air Act. This modification will change permitted methane emissions from 6,844 to 8,305 tons per year.

IV. CASE-BY-CASE DETERMINATIONS

No case-by-case determinations were required for this modification.

V. EMISSION OFFSET REQUIREMENTS

This modification is not subject to Emission Offset requirements. For this modification, the contemporaneous period begins in December 2017 and extends to January 2025. We derive this period using the month the permit application was submitted (December 2022). We estimate commencement of operations in the 4th quarter 2024; therefore, the contemporaneous period is approximately seven (7) years.

The VOC net emission increase (NI) at the facility will be 9.78 tons per year, where the threshold limit is 25 tons per year as per N.J.A.C. 7:27-18.8.

VI. BASIS FOR MONITORING AND RECORDKEEPING REQUIREMENTS

The facility's operating permit includes monitoring, recordkeeping and reporting requirements that are sufficient to demonstrate the facility's continued compliance with the applicable requirements consistent with the following:

- 1. Provisions to implement the testing and monitoring requirements of N.J.A.C. 7:27-22.18, the recordkeeping and reporting requirements of N.J.A.C. 7:27-22.19, and all emissions monitoring and analysis procedures or compliance assurance methods required under the applicable requirements, including any procedures and methods promulgated pursuant to 40 CFR 64; and
- 2. Where the applicable requirement does not require direct periodic monitoring of emissions, the Department requires periodic monitoring of surrogate parameters sufficient to yield reliable data from the relevant time period that are representative of the facility's compliance with the permit.

Flares:

The facility monitors the fuel use for each flare CD1, CD10, and CD11 as the surrogate for the long-term (TPY) emission limits for VOC, NOx, CO, SO2, TSP, PM-10, PM-2.5, and HAPs. Surrogate monitoring for the non-methane organic compounds (NMOC) destruction efficiency in the flares is the landfill gas combustion temperature monitoring. Short-term (lb/hr) SO2 emission limits are monitored by a monthly H2S sampling prior to combustion and calculations. The open flare CD11 is being monitored for the pilot light or the flame. Also, this permit includes hydrogen sulfide ambient monitoring at or beyond the property line.

- 3. In some cases, direct periodic monitoring of emissions and/or surrogate parameters is not required due to one or more of the following:
 - Equipment size and capacity limitations,
 - Subject equipment being permitted at the maximum rated capacity,
 - There is no specific state or Federal standard that applies to this piece of equipment,
 - Not a pollutant of concern for this piece of equipment,
 - Agreements with EPA on the frequency of testing and monitoring for combustion sources.

STATEMENT OF BASIS for OCEAN COUNTY LANDFILL CORP.

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VII. APPLICABLE STATE AND FEDERAL RULES

This modification is subject to New Jersey Air Pollution Control Regulations, codified in N.J.A.C. 7:27-1 through 34, as applicable. A complete text of these regulations is available at: <u>http://www.nj.gov/dep/aqm/rules27.html</u> This modification is also subject to Federal regulations listed below. NSPS Subpart A: General Provisions NSPS Subpart IIII: Stationary Compression Ignition Internal Combustion Engines NSPS Subpart XXX: Municipal Solid Waste Landfills MACT Subpart A: General Provisions MACT AAAA: Municipal Solid Waste Landfills

The Greenhouse Gas (GHG) emissions from this facility are 476,100 TPY CO2e and there is no GHG emissions increase. This modification is not subject to PSD rules at 40 CFR 52.21.

VIII. FACILITY'S COMPLIANCE STATUS

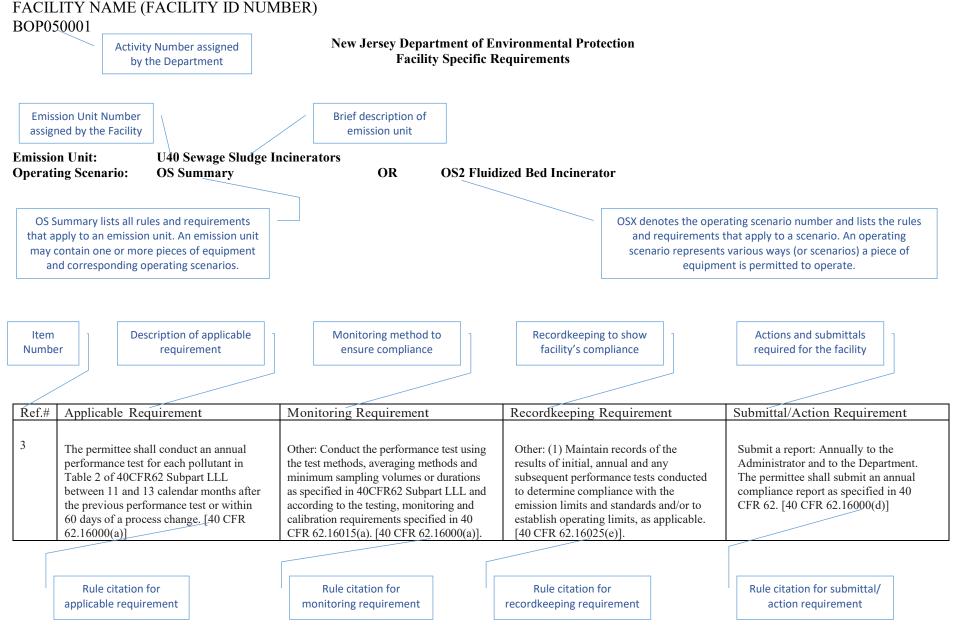
The Responsible Official at the facility has certified that the facility currently meets all applicable requirements of the Federal Clean Air Act and the New Jersey Air Pollution Control Act. Based on this certification, the Department's evaluation of the information included in the facility's application, and a review of the facility's compliance status, the Department has concluded that this air pollution control operating permit should be approved.

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. A permit shield provides that compliance with the relevant conditions of the operating permit shall be deemed compliance with the specific applicable requirements that are in effect on the date of issuance of the draft operating permit, and which form the basis for the conditions in the operating permit.

Prior to the expiration of the Operating Permit's five-year term, the facility will be required to apply for a renewal, at which time the Department will evaluate the facility and issue a public notice with its findings.

IX. EXEMPT ACTIVITIES

The facility's operating permit does not include exempt activities such as office and interior maintenance activities, maintenance shop activities, food preparation facilities, cafeterias and dining rooms, etc. A complete list of exempt activities, as allowed by the Operating Permit rule, can be found at N.J.A.C. 7:27-22.1.



Explanation Sheet for Facility Specific Requirements