State of New Jersey

PHILIP D. MURPHY
Governor

TAHESHA L. WAY
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION

AIR, ENERGY AND MATERIALS SUSTAINABILITY
Division of Air Quality and Radiation Protection
Bureau of Stationary Sources
401 E. State Street, 2nd floor, P.O. Box 420, Mail Code 401-02
Trenton, NJ 08625-0420

SHAWN M. LATOURETTE
Commissioner

Air Pollution Control Operating Permit
Significant Modification

Permit Activity Number: BOP220002 **Program Interest Number: 78931**

Mailing Address	Plant Location
MARTIN L RYAN PE VP OF ENGINEERING OCEAN CNTY LANDFILL CORP 2498 RT 70 Manchester Twp, NJ 08759	OCEAN CNTY LANDFILL CORP 2498 Rt 70 Manchester Twp Ocean County

Initial Operating Permit Approval Date: October 4, 2004

Operating Permit Approval Date: Draft

Operating Permit Expiration Date: October 3, 2009 (Operating Under Application Shield)

AUTHORITY AND APPLICABILITY

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Changes made through this permit activity are provided in the Reason for Application.

PERMIT SHIELD

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

This operating permit does not include compliance schedules as part of the approved compliance plan.

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the

Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: https://dep.nj.gov/boss. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at https://dep.nj.gov/boss.

HELPLINE

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

COMPLIANCE ASSURANCE MONITORING

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the NJ04 - Administrative Hearing Request Checklist and Tracking Form available at https://dep.nj.gov/wp-content/uploads/boss/applications-and-forms/administrative-hearing-request-checklist-and-tracking-form.pdf .

If you have any questions regarding this permit approval, please call Shafi Ahmed at (609) 940-5652.

Approved by:

_____

Joel Leon

Enclosure

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

Facility Name: OCEAN CNTY LANDFILL CORP
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Section A

Facility Name: OCEAN CNTY LANDFILL CORP
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POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations[1] at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs* (total)	CO_2e[2]
Emission Units Summary	19.38	54.57	89.05	27.3	31.27	22.89	18.01	N/A	9.88	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Total Emissions	19.38	54.57	89.05	27.3	31.27	22.89	18.01	N/A	9.88	476,100

Table 2: Estimate of total emissions from all Insignificant Source Operations[1] and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO_x	CO	SO_2	TSP (total)	PM_{10} (total)	$PM_{2.5}$ (total)	Pb	HAPs (total)
Insignificant Source Operations	3.625	3.27	0.72	0.633	N/A	0.021	N/A	N/A	N/A
Non-Source Fugitive Emissions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds
NOx: Nitrogen Oxides
CO: Carbon Monoxide
SO_2: Sulfur Dioxide
TSP: Total Suspended Particulates
Other: Any other air contaminant regulated under the Federal CAA
PM_{10}: Particulates under 10 microns
$PM_{2.5}$: Particulates under 2.5 microns
Pb: Lead
HAPs: Hazardous Air Pollutants
CO_2e: Carbon Dioxide equivalent
N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

*Emissions of individual HAPs are provided in Table 3 on the next page.
Emissions of "Other" air contaminants are provided in Table 4 on the next page.

[1] Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.
[2] Total CO_2e emissions for the facility.

Section A

Facility Name: OCEAN CNTY LANDFILL CORP
Program Interest Number: 78931
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POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations [3]:

HAP	TPY
Trichloroethane (1,1,2-)	0.01
Dichloroethane (1,2-)	0.01
Benzene	0.079
Dichlorobenzene (1,4-)	0.023
Ethylbenzene	0.487
Vinyl Chloride	0.048
Naphthalene	0.049
Hydrogen Chloride	9.17

Table 4: Summary of "Other" air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
Methane	8,305
Hydrogen Sulfide	10.6

[3] Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: OCEAN CNTY LANDFILL CORP
Program Interest Number: 78931
Permit Activity Number: BOP220002

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]

2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:

   a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:

      i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and

      ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or

   b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or

   c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]

3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]

4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]

5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]

7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]

8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]

9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]

10. a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.

    b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:

        i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and

        ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]

11. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]

12. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]

13. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]

14. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.

15. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.

16. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).

17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.

    a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.

    b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.

    c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.

    d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.

    e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.

    f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.

    g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.

    h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.

18. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.

19. The permittee is responsible for submitting timely and administratively complete operating permit applications:

    Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
    Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
    Minor Modifications [N.J.A.C. 7:27-22.23(e)];
    Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
    Renewals [N.J.A.C. 7:27-22.30(b).

20. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website https://dep.nj.gov/boss/applications-and-forms/ (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal

at: https://njdeponline.com/. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.

21. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:

    i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and

    ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.

22. Consistent with EPA's National Stack Testing Guidance and Technical Manual 1004, a facility may not stop an ongoing stack test because it would have failed the test unless the facility also ceases operation of the equipment in question to correct the issue. Stopping an ongoing stack test in these instances will be considered credible evidence of emissions non-compliance.

23. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]

24. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department's Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]

25. Testing every 5 years shall be defined as no later than the end of the 60th month after the first required and each subsequent stack test was completed for the new or modified source.

26. Any emission limit values in an operating permit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to three significant figures (e.g. a printed limit of "1 lb/hr" means a limit of "1.00 lb/hr") except for concentration limits less than 10 parts per million (ppm). For such concentration limits, the emission limit shall be interpreted to be followed by inherent trailing zeros (0) in the decimal portion of the limit to two significant figures (e.g. a printed limit of "1 ppm" means a limit of "1.0 ppm").

Section C

Facility Name: OCEAN CNTY LANDFILL CORP
Program Interest Number: 78931
Permit Activity Number: BOP220002

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable State requirements. The applicable State requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

SECTION	SUBJECT ITEM	ITEM #	REF. #
B	---	1	---
B	---	10b	---
D	FC	---	3
D	FC	---	9

Section D

Facility Name: OCEAN CNTY LANDFILL CORP
Program Interest Number: 78931
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FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/202

New Jersey Department of Environmental Protection
Reason for Application

Permit Being Modified

Permit Class: BOP **Number:** 240001

Description of Modifications: Significant Modification - Increase Landfill Design Capacity ("Sustainable Landfill Project")

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **FC**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.
6	Emission Statements: The permittee shall comply with all the applicable provisions of N.J.A.C. 7:27-21. [N.J.A.C. 7:27-21]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Compliance Certification: The permittee shall submit an annual Compliance Certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f). [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and to EPA within 60 days after the end of each calendar year during which this permit was in effect. The Compliance Certification shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The certification should be printed for submission to EPA. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/. The Compliance Certification forms and instructions for submitting to EPA are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]
12	Protection of Stratospheric Ozone:1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Deviation Reports: The permittee shall submit to the Department a certified six-month Deviation Report relating to testing and monitoring required by the operating permit. [N.J.A.C. 7:27-22.19(d)3], [N.J.A.C.7:27-22.19(e)], and [N.J.A.C. 7:27-22.19(c)]	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C.7:27-22.19(a)] and [N.J.A.C. 7:27-22.19(e)].	Submit a report: As per the approved schedule. The six-month deviation reports for the period from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and for the period from July 1 through December 31, shall be submitted by January 30 of the following calendar year. The annual compliance certification required by N.J.A.C.7:27-22.19(f) may also be considered as your six-month Deviation Report for the period from July 1 – December 31, if submitted by January 30 of the following calendar year. The reports shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official and submitted electronically through the NJDEP online web portal. The NJDEP online web portal can be accessed at: http://www.state.nj.us/dep/online/ . The Compliance Certification forms are available by selecting Documents and Forms and then Periodic Compliance Certification. [N.J.A.C. 7:27-22]
14	Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]	None.	None.	Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The Department and its authorized representatives shall have the right to enter and inspect any activity subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]	None.	None.	None.
17	The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]	None.	None.	None.
18	Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]	None.	None.	Comply with the requirement: Upon occurrence of event. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. [N.J.A.C. 7:27-22.18(j)]
19	Each process monitor must be operated at all times when the associated process equipment is operating except during service outage time not to exceed 24 hours per calendar quarter. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee must keep a service log to document any outage. [N.J.A.C. 7:27-22.16(o)]	None.
20	Continuous recording for process monitors must be at a sufficient frequency and resolution to be able to document compliance or non-compliance in accordance with Technical Manual 1005 for CEMS (TM1005(B)(3). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	If an operating permit has expired, the conditions of the operating permit, including the requirements for stack testing during the expired permit term, remain enforceable until the operating permit is reissued. [N.J.A.C. 7:27-22.30(j)] and [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS2 1000 ga. fuel tank, diesel**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel: If the tank contains diesel fuel use in Ocean County, New Jersey (Zone 1), the maximum allowable sulfur content is 0.3 percent by weight. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery, based on no averaging period. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	Tank contents limited to diesel fuel only. [N.J.A.C. 7:27-22.16(a)]	Other: Tank contents. Per Delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #9 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS3 Small Combustion Heaters (7) <1 mmBtu/hr**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 3.2(a)]	Other: Periodic visual inspections.[N.J.A.C. 7:27-22.16(o)].	None.	None.
2	No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 6.2(d)]	None.	None.	None.
3	Opacity <= 20 % Emissions no greater than 20% opacity, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30 minute period. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.
4	Maximum sulfur content of #2 fuel oil. Sulfur Content in Fuel <= 0.3 % by weight. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	Other: Keep Certificate from fuel supplier showing fuel sulfur content, per delivery.[N.J.A.C. 7:27- 9.2(b)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS4 10000 gal underground #2 fuel tank**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel: If the tank contains # 2 fuel use in Ocean County, New Jersey (Zone 1), the maximum allowable sulfur content is 0.3 percent by weight. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	Other: Keep Certificate from fuel supplier showing fuel sulfur content, per delivery.[N.J.A.C. 7:27- 9.2(b)].	None.
2	Tank contents limited to # 2 fuel only. [N.J.A.C. 7:27-22.16(a)]	Other: Tank contents. Per Delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #9 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS5 10000 gal underground diesel tank**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel: If the tank contains diesel fuel use in Ocean County, New Jersey (Zone 1), the maximum allowable sulfur content is 0.3 percent by weight. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery, based on no averaging period. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	Tank contents limited to diesel fuel only. [N.J.A.C. 7:27-22.16(a)]	Other: Tank contents. Per Delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank's potential to emit each TXS and each HAP shall not exceed the de minims reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #9 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS6 Emergency Generators (4)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Smoke emissions from each stationary internal combustion engine shall not exceed 20% opacity, exclusive of visible condensed water vapor, for more than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	Other: Periodic visual inspections.[N.J.A.C. 7:27-22.16(o)].	None.	None.
2	Maximum allowable sulfur content in fuel oil by fuel oil type/viscosity and geographical zone. Sulfur Content in Fuel <= 0.3 % by weight. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27- 9.2(b)]	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS7 Aerobic leachate treatment tanks (influent concentration <3500 ppb of VOC (Total) and < 100 ppb TXS)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No additional requirements. [N.J.A.C. 7:27-22.1(14)]	None.	None.	None.
2	No additional sampling required. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS8 1000 ga. fuel storage, #2 oil**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Sulfur Content in Fuel: If the tank contains # 2 fuel oil for use in Ocean County, New Jersey (Zone 1), the maximum allowable sulfur content is 0.3 percent by weight. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery, based on no averaging period. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	Tank contents limited to #2 fuel oil only. [N.J.A.C. 7:27-22.16(a)]	Other: Tank contents. Per Delivery.[N.J.A.C. 7:27-22.16(o)].	Recordkeeping by invoices / bills of lading once per bulk fuel shipment. [N.J.A.C. 7:27-22.16(o)]	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The vapor pressure of the liquid, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees F, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	The tank shall have no visible emissions, exclusive of water vapor, to the outdoor atmosphere. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The tank shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
7	The tank shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
8	The tank's potential to emit each TXS and each HAP shall not exceed the de minims reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The percentage by weight of all HAPs collectively in the raw material stored in the tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.
10	The owner or operator shall have readily available upon Department request a statement certified in accordance with N.J.A.C. 7:27-1.39, signed by the responsible official, as defined at N.J.A.C. 7:27-1.4, that: (1) specifies the contents of the tank; (2) affirms that the tank meets the applicable requirements of Ref. #2 to #9 above and (3) attests that the tank is in compliance with all other applicable State or federal air pollution requirements. [N.J.A.C. 7:27-22.1]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Subject Item: **IS9 Neutralizers for Odor Mitigation**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permitee shall have an odor mitigation plan which will include the use of neutralizers (weather permitting) and the application of cover meterial or alternate cover material (including tarps) for the landfill operation and when conducting excavation activities. Appendix 1 includes details of the odor mitigation plan. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The permittee is authorized to use the odor-neutralizing agents ChemStation Product 1230 and 8850 manufactured by ChemStation, and CupriDyne® Clean manufactured by Odor No More, Inc. consistent with Safety Data Sheets (SDS). [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep records and Safety Data Sheet (SDS) at the facility site that shall be readily available upon the Department request. [N.J.A.C. 7:27-22.16(o)]	None.
3	The odor-neutralizing agents (or their equivalent[s]), such as ChemStation Product 1230, ChemStation Product 8850, and CupriDyne® Clean shall not contain any HAPs or Air Toxics. The permitee may use 1 or more equivalent product(s) if warranted. [N.J.A.C. 7:27-22.16(a)]	Monitored by formulation data upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. Keep Safety Data Sheet (SDS) at the facility site and shall be readily available upon the Department request. [N.J.A.C. 7:27-22.16(o)]	None.
4	VOC (Total): <= Below Reporting Threshold. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by calculations annually. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system annually. Keep records at the facility site that shall be readily available upon the Department request. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3 2.28 MMBtu/hr boiler firing treated LFG and No. 2 Fuel oil**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Particulate Emissions: Particulate emission limit from the combustion of fuel based on rated heat input of source shall be <= 1.5 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
2	VOC (Total) <= 0.59 tons/yr Annual emission limit based on rated heat input of source. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 1.54 tons/yr Annual emission limit from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	CO <= 0.9 tons/yr Annual emission limit from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO2 <= 3.4 tons/yr Annual emission limit from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	TSP <= 1.5 tons/yr Annual emission limit based on rated heat input of source. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
7	PM-10 (Total) <= 1.5 tons/yr Annual emission limit based on rated heat input of source. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	PM-2.5 (Total) <= 1.5 tons/yr Annual emission limit based on rated heat input of source. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	Maximum Gross Heat Input <= 2.28 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	The LTF Boiler is restricted to using only treated landfill gas (LFG) and #2 fuel oil. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3 2.28 MMBtu/hr boiler firing treated LFG and No. 2 Fuel oil**
Operating Scenario: **OS1 Combustion of treated LFG to heat leachate treatment process**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. For compliance with the monitoring and recordkeeping requirements for the visible emission standards, the permittee shall conduct monthly visual inspections during daylight hours in any month with oil-fired operation. [N.J.A.C. 7:27 - 3.2 (a)] & [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	VOC (Total) <= 0.14 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	NOx (Total) <= 0.36 lb/hr. Maximum emission rate from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	CO <= 0.2 lb/hr. Maximum emission rate from preconstruction permit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO2 <= 0.38 lb/hr. Maximum hourly emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Maximum annual fuel use limit from preconstruction permit. Landfill Gas Usage <= 57.8 MMft^3/yr. [N.J.A.C. 7:27-22.16(e)]	Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
7	There shall be a system to automatically shutdown the flow of landfill gas to the boiler if the firing of landfill gas discontinues. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Only treated gas will be supplied to the boiler which provides heat to maintain leachate temperature for the process that reduces leachate pollutant loads prior to sewer discharge. The treated gas will be clean enough to burn efficiently in the boiler burner. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep record of operation of treatment system[N.J.A.C. 7:27-22.16(o)].	None.
9	The landfill gas will be treated in a fuel treatment system prior to the combustion in the boiler. The fuel treatment system shall compress, filter and dewater small quantity of landfill gas and adequately prepare it for the combustion in the boiler. The fuel treatment system shall consist of filters and dewatering device to treat up to 70 cubic feet per minute of landfill gas. The system shall use a multi-stage, centrifugal blower to pull gas from the main landfill gas collection system via a 2 inch line, and compress adequately to be delivered to and combust in the boiler. The system shall include a Balston filter comprised of a stainless steel vessel with filter tubes to remove particles of a size down to 0.3 microns and dewater the gas. The drained condensate shall be piped back into the leachate equalization lagoon and shall be processed with the leachate. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep record of operation of treatment system[N.J.A.C. 7:27-22.16(o)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U3 2.28 MMBtu/hr boiler firing treated LFG and No. 2 Fuel oil**
Operating Scenario: **OS2 Combustion of fuel oil #2 to heat leachate treatment process**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions, exclusive of visible condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. For compliance with the monitoring and recordkeeping requirements for the visible emission standards, the permittee shall conduct monthly visual inspections during daylight hours in any month with oil-fired operation. [N.J.A.C. 7:27 - 3.2 (a)] & [N.J.A.C. 7:27- 3.2(c)]	Monitored by visual determination each month during operation, based on the averaging period as per Department approved test method. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions (other than condensed water vapor) greater than the prescribed standard. If visible emissions are observed, the permittee shall: (1) Verify that the equipment and/or control device causing the emissions is operating according to manfacturer's specifications and the operating permit compliance plan. If the equipment and/or control device are not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to the NJDEP pursuant to N.J.A.C. 7:27-22.19. (2) If the corrective action taken in step (1) does not correct the visible emissions problem within 24 hours, the applicant shall perform a check via a certified reader in accordance with N.J.A.C. 7:27B-2. Such a test shall be conducted each shift when operating until corrective action is taken to successfully correct the visible emissions problem. The permittee must report any continuing permit violation pursuant to N.J.A.C.7:27-22.19. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27- 3.2(c)]	Recordkeeping by manual logging of parameter each month during operation (permanently bound). The permittee must retain the following records: (1) date and time of inspection, (2) emission point number, (3) operational status of equipment, (4) observed results and conclusions, (5) description of corrective action if needed, (6) date and time visible emission problem was solved, if applicable, (7) N.J.A.C.7:27B-2 results if conducted, and (8) name of person(s) conducting inspection. [N.J.A.C. 7:27-3.2(a)] &. [N.J.A.C. 7:27-3.2(c)]	None.
2	Maximum sulfur content of #2 fuel oil based on preconstruction permit. Sulfur Content in Fuel <= 0.3 % by weight. [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. The permittee shall check the fuel oil sulfur content on the invoices/bills of lading. [N.J.A.C. 7:27-22.16(o)]	Other: Keep Certificate of Analysis showing fuel sulfur content, per delivery.[N.J.A.C. 7:27- 9.2(b)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	NOx (Total) <= 0.35 lb/hr. Maximum emission rate from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	CO <= 0.088 lb/hr. Maximum emission rate from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	SO2 <= 2.5 lb/hr. Maximum emission rate from preconstruction permit, based on rated heat input of source. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Maximum annual use limit from preconstruction permit. No. 2 Fuel Oil Usage <= 154,176 gal/yr. [N.J.A.C. 7:27-22.16(e)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 Material recovery process and transfer**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 %. Particulate emissions no greater than 20% opacity, exclusive of condensed water vapor, for a period of not longer than three (3) minutes in any consecutive 30-minute period. [N.J.A.C. 7:27- 6.2(d)]	None.	None.	None.
2	Opacity <= 20 %. No person shall cause, suffer, allow or permit particles to be emitted from any stack or chimney of which is greater than 20 percent opacity, exclusive of water vapor, except for a period not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-6.2(d)] &. [N.J.A.C. 7:27- 6.2(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The permittee shall not use the equipment in a manner which will cause visible emissions, exclusive of condensed water vapor, except for 3 minutes in any consecutive 30 minute period. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by visual determination once per week during operation, based on any consecutive 30-minute period. For compliance with the opacity standard, the permittee shall conduct visual opacity inspections during daylight hours. Visual inspections shall consist of a visual survey to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard (See Applicable Requirement). If visible emissions are observed, the permittee shall do the following: (1) Verify that the equipment and/or control device causing the emission is operating according to manufactures specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violations to NJDEP pursuant to N.J.A.C. 7:27-22.19.; (2) If the corrective action taken in step (1) does not correct the opacity problem within 24 hours, the applicant shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such test shall be conducted each day until corrective action is taken to successfully correct the opacity problem.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping by manual or electronic logging of parameter once per week during operation. Manually log in a logbook or in readily accessible computer memories and retain the following records: (1) Date and time of inspection; (2) Emission Point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective action taken if needed; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results if conducted; and (8) Name of person(s) conducting inspection.[N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: As per the approved schedule. The permittee shall report permit violations (excess visible emissions) to the Department pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]
4	Opacity: no visible emissions, exclusive of condensed water vapor, except for a period no longer than three minutes in any consecutive thirty minute period. [N.J.A.C. 7:27-22.16(e)]	Opacity: Monitored by visual determination upon request of the Department, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon request of the Department. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	If visible emissions are seen being emitted except in areas over which the owner or operator has exclusive use or occupancy, the solid waste transfer station shall cease operation and not be restarted until corrective action has been taken. [N.J.A.C. 7:27-22.16(o)]	Monitored by visual determination upon occurrence of event, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Each time visible emissions are seen, the date and time shall be recorded as well as the corrective action taken. Records are to be maintained on-site and be made readily available upon request by the Department. [N.J.A.C. 7:27-22.16(o)]	None.
6	Total Production Rate <= 2,000 tons/day for the facility maximum daily waste handling capacity. The Facility is allowed to process (receive and ship) only Type 10, 13, 13C, 23, 25 and 27 waste types as defined in NJAC 7:26-2.13. The Facility is allowed to process only waste types permitted by the Solid Waste Permit for Transfer Operations. [N.J.A.C. 7:27-22.16(a)]	Total Production Rate: Monitored by waste feed/charge rate monitoring (solid) once per calendar day during operation. Total production rate shall be monitored by material balance on a daily basis. [N.J.A.C. 7:27-22.16(o)]	Total Production Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The Permitee shall maintain records of the quantity and type of the waste processed and demonstrate compliance in accordance with the Solid Waste Regulations NJAC 7:26-2.13(a). [N.J.A.C. 7:27-22.16(o)]	None.
7	Hours of Operation: Within any operating day, the hours of operation for the transfer station/materials recovery facility shall be consistent with the requirements of the current Solid Waste Permit for transfer operations. This includes limitations on when bulky waste and construction and demolition waste may be accepted and processed. The facility MRF hours of operation: 7:00 am to 6:00 pm Monday through Friday 7:00 am to 3:30 noon on Saturday. [N.J.A.C. 7:27-22.16(a)]	None.	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
8	All solid waste delivery vehicles shall be properly registered with the Division of Solid and Hazardous Waste pursuant to N.J.A.C. 7:26-3. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The control devices for the Material Recovering Process and Transfer (U4) are the dust collectors (CD40 & CD41) or equivalent. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	TSP <= 4.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially, based on one calendar year. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
11	PM-10 (Total) <= 2.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially, based on one calendar year. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
12	PM-2.5 (Total) <= 0.48 tons/yr. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially, based on one calendar year. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
13	No person shall use or cause to be used any equipment or control apparatus unless all components connected or attached to, or serving the equipment or control apparatus, are functioning properly and are in use in accordance with the preconstruction permit and certificate and all conditions and provisions thereto. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	The particulate and odor control system shall be in operation at all times that the transfer station is in operation. Equipment and control devices will be operated except when repairs and/or maintenance activities are being done. Waste Acceptance operations will continue during the times of repair and maintenance. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	The transfer station shall be operated in such a manner that all air contaminant emissions that are generated are directed per proposed minor modification to the ventilators and associated air pollution control systems. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	The operation of the transfer station shall be consistent with all permits and conditions of the Division of Solid and Hazardous Waste. [N.J.A.C. 7:27-22.16(a)]	Other: Monitored in compliance with NJAC 7:26-2.8 (i)[N.J.A.C. 7:27-22.16(o)].	None.	None.
17	No contaminated soils (having concentration above non-residential direct contact soil cleanup criteria standards per NJDEP) with VOC's or hydrocarbons shall be received and/or processed by the facility. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	No significant source operation shall be installed and operated inside the solid waste transfer station building. Significant source operation means a source that is classified as a significant source pursuant to NJAC 7:27-8.2 (a) through (c) "Applicability" and is not exempted from being a significant source operation pursuant to NJAC 7:27-8.2(d) through (f). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	This equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U4 Material recovery process and transfer**
Operating Scenario: **OS1 Materials Recovery Facility with Transfer**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop >= 4 and Pressure Drop <= 10 inches w.c. or as per manufacturer recommendations. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.
2	The permittee shall inspect and maintain the dust collector (CD40 & CD41) and replace the filter media on a schedule which will ensure the dust collector efficiency is maintained. The dust collector shall be operated and maintained in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event Each instance of dust collector maintenance and filter media replacement shall be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
3	Particulates Control Efficiency of the filter is 99%. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Air-to-Cloth Ratio <= 2.45 ACFM/sq.ft. for each dust collector (CD40 & CD41). [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	TSP <= 2.385 lb/hr. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
6	PM-10 (Total) <= 1.192 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
7	PM-2.5 (Total) <= 0.283 lb/hr. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system initial calculations only. [N.J.A.C. 7:27-22.16(o)]	None.
8	The permitee shall replace the filters when the differential pressure across the filter elements is greater than 10 inches w.c. or as based on manufacturers specifications. [N.J.A.C. 7:27-22.16(a)]	Monitored by pressure drop instrument per change of material, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permitee shall record each instance of filter replacement. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The Permitee shall check the carbon media every 3 months for carbon breakthrough. The carbon filters shall be replaced when (which ever occurs first) : 1- breakthrough occurs based on carbon media testing every two years maximum, OR, 2- if the equipment causes an air contaminant to be detectable by the sense of smell to be present in the outdoor atmosphere in such quantity or duration which is, or tends to be injurious to human health or welfare, animal or plant life or property, or would unreasonably interefer with the enjoyment of life or propery, except in areas over which the Permitee has exclusive use or occupancy. [N.J.A.C. 7:27-22.16(a)]	Monitored by odor threshold monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year or manufacturer specifid changout frequency. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. The permittee shall record the time and date of each replacement of carbon panels. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]
10	Saturated or partially used adsorption material shall be disposed of in a manner that minimizes releases of air contaminants to the atmosphere. This shall be done in accordance with all applicable State and Federal solid waste management regulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	Flowrate >= 104,000 ACFM. The air handling system shall be designed to achieve a flow rate of 104,000 acfm and will operate at no less than 104,000 acfm utilizing two (2) 150 HP electric motors to pull air through a modular bank of American Air Cartridge Filters or equivalent performance when facility is in operation. [N.J.A.C. 7:27-22.16(a)]	Flowrate: Monitored by documentation of construction once initially. The flowrate shall be confirmed through initial design calculations and manual logging of the blower settings to confirm operation. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Initial facility design specifications provided with the permit application. In addition, the initial design calculations shall be maintained on-site and made available for review by the Department upon request showing the correlation between the blower settings and exhaust flow rate. [N.J.A.C. 7:27-22.16(o)]	None.
12	The air handling system shall be sized to have at least a minimum of 6 air changes per hour. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Initial facility design specifications provided with the permit application. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall comply, as applicable, with the standards required in 40 CFR 60 Subpart A (General Provisisons) and 40 CFR 60 Subpart XXX (NSPS XXX) and 40 CFR 63 Subpart A (General Provisisons) and 40 CFR 63 (Subpart AAAA) listed under U64 OS1. [N.J.A.C. 7:27-22]	None.	None.	None.
2	STACK TESTING SUMMARY The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for NOx, CO, VOC, SO2, TSP, PM-10 and PM2.5 for each enclosed flare CD1 and CD10 as specified in the compliance plan for U64 OS1. Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. [N.J.A.C. 7:27-22.16(a)]	Other: The stack test must be conducted within 18 months from the date of the approved operating permit BOP160002.[N.J.A.C. 7:27-22.16(o)].	Other: Recordkeeping as required under the applicable operating scenario(s).[N.J.A.C. 7:27-22.16(o)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved initial (or modified) operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 45 days after performing the stack test pursuant to N.J.A.C. 7:27-22.19(d). The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)] and. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	Total Design Capacity <= 27.83 million metric tons (megagrams, Mg). This Design Capacity increase provides capacity for waste placement up to final elevations for the area defined as the SLP. This modification commenced after July 17, 2014. The maximum expected landfill gas generation rate shall be determined using the maximum design capacity 27.83 million Mg. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Uncollected VOC <= 18.78 tons/yr. Annual emission limit based on the expected gas generation, collection system efficiency and no co-disposal. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	This applicable requirement applies to CD1 and CD10. The flare shall be designed to operate at a Minimum VOC Destruction and Removal Efficiency >= 95 %. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	Minimum Operating Temperature at the Exit of the Combustion Section >= 1,500 degrees F. This applicable requirement applies to CD1 and CD10. The flare shall be designed to operate at no less than the minimum operating temperature. [N.J.A.C. 7:27-22.16(e)]	Minimum Operating Temperature at the Exit of the Combustion Section: Monitored by temperature instrument continuously, based on an instantaneous determination. The permittee shall install, operate and maintain an alarm or other operational warning system, properly shielded from direct contact with the flame. The alarm shall be designed to sound at any time flare temperature is detected to be less than the permitted operating temperature. [N.J.A.C. 7:27-22.16(o)]	Minimum Operating Temperature at the Exit of the Combustion Section: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	Comply with the requirement: Upon occurrence of event. [N.J.A.C. 7:27-22.16(e)]
7	Minimum Residence Time >= 0.5 seconds. This applicable requirement applies to CD1 and CD10. The flare shall be designed to operate at no less than the minimum residence time. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
8	CO <= 100 ppmvd @ 7% O2. This applicable requirement applies to CD1 and CD10. The maximum concentration limit for. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U64 Landfill, Waste transfer and processing equipped with H2S Plus control .

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The permittee shall monitor the flare pilot burners or flame itself by a thermocouple or any equivalent device to ensure the presence of a flame. This applicable requirement applies to CD1, CD10 and CD11. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
10	The permittee shall install, operate and maintain an automatic system (or equivalent) on the flare to relight the flare pilots to maintain flare combustion. This applicable requirement applies to CD1, CD10 and CD11. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	The flare shall have a smokeless design. This applicable requirement applies to CD1, CD10 and CD11. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
12	Opacity: There shall be no visible emissions from the flare of the landfill. This applicable requirement applies to CD1 and CD10. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
13	CO <= 88.04 tons/yr based on the total cumulative gas flow to the flare system (CD1, CD10 and CD11) <=3,161 MMscf/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. The CO ton per year value shall be calculated using the following formula: (Ton/Year) = (A lb/MMBTU) x (B BTU/scf) x (MMscf of landfill gas consumed by the flares during 12consecutive months) x (1 ton / 2000 lb), where A = Emission Factor (lb/MMBTU) for CO as stated in this permit. B = Heating Value (HHV) for Landfill Gas (monthly average of higher heating value of the landfill gas as measured by the facility). [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and emission rate calculations procedures in this permit approved by the Department. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	NOx (Total) <= 52.9 tons/yr based on the total cumulative gas flow to the flare system (CD1, CD10 and CD11) <=3,161 MMscf/yr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. The NOx ton per year value shall be calculated using the following formula: (Ton/Year) = (A lb/MMBTU) x (B BTU/scf) x (MMscf of landfill gas consumed by the flares during 12consecutive months) x (1 ton / 2000 lb), where A = Emission Factor (lb/MMBTU) for NOx as stated in this permit. B = Heating Value (HHV) for Landfill Gas (monthly average of higher heating value of the landfill gas as measured by the facility). [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and emission rate calculations procedures in this permit approved by the Department. [N.J.A.C. 7:27-22.16(o)]	None.
15	SO2 <= 23.9 tons/yr. [N.J.A.C. 7:27-22.16(e)]	SO2: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. SO2 emissions, tpy for the 12 consecutive month period (rolling 1 month), are required to be calculated monthly based on the H2S concentration in landfill gas monthly monitoring results. Landfill gas shall be sampled monthly prior to combustion in each flare. [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and emission rate calculations procedures in this permit approved by the Department. [N.J.A.C. 7:27-22.16(o)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
16	TSP <= 15.95 tons/yr based on the total cumulative gas flow to the flare system (CD1, CD10 and CD11) <=3,161 MMscf/yr and the AP-42 Table 2.4-5 emission factor of 17 lb PM / MM dscf CH4. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. The TSP ton per year value shall be calculated using the following formula: (Ton/Year) = (A lb/MMBTU) x (B BTU/scf) x (MMscf of landfill gas consumed by the flares during 12consecutive months) x (1 ton / 2000 lb), where A = Emission Factor (lb/MMBTU) for TSP as stated in this permit. B = Heating Value (HHV) for Landfill Gas (monthly average of higher heating value of the landfill gas as measured by the facility). [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and emission rate calculations procedures in this permit approved by the Department. [N.J.A.C. 7:27-22.16(o)]	None.
17	PM-10 (Total) <= 15.95 tons/yr based on the total cumulative gas flow to the flare system (CD1, CD10 and CD11) <=3,161 MMscf/yr and the AP-42 Table 2.4-5 emission factor of 17 lb PM / MM dscf CH4. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. The PM-10 ton per year value shall be calculated using the following formula: (Ton/Year) = (A lb/MMBTU) x (B BTU/scf) x (MMscf of landfill gas consumed by the flares during 12consecutive months) x (1 ton / 2000 lb), where A = Emission Factor (lb/MMBTU) for PM-10 as stated in this permit. B = Heating Value (HHV) for Landfill Gas (monthly average of higher heating value of the landfill gas as measured by the facility). [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and emission rate calculations procedures in this permit approved by the Department. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
18	PM-2.5 (Total) <= 15.95 tons/yr based on the total cumulative gas flow to the flare system (CD1, CD10 and CD11) <=3,161 MMscf/yr and the AP-42 Table 2.4-5 emission factor of 17 lb PM / MM dscf CH4. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. The PM-2.5 tons per year value shall be calculated using the following formula: (Ton/Year) = (A lb/MMBTU) x (B BTU/scf) x (MMscf of landfill gas consumed by the flares during 12consecutive months) x (1 ton / 2000 lb), where A = Emission Factor (lb/MMBTU) for PM-2.5 as stated in this permit. B = Heating Value (HHV) for Landfill Gas (monthly average of higher heating value of the landfill gas as measured by the facility). [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation and emission rate calculations procedures in this permit approved by the Department. [N.J.A.C. 7:27-22.16(o)]	None.
19	VOC (Total) <= 1.87 tons/yr based on the total cumulative gas flow to the flare system (CD1, CD10 and CD11) <=3,161 MMscf/yr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis) and by calculations. The VOC ton per year value shall be calculated using the following formula: (Ton/Year) = (A lb/MMBTU) x (B BTU/scf) x (MMscf of landfill gas consumed by the flares during 12consecutive months) x (1 ton / 2000 lb), where A = Emission Factor (lb/MMBTU) for VOC as stated in this permit. B = Heating Value (HHV) for Landfill Gas (monthly average of higher heating value of the landfill gas as measured by the facility). [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.
20	Total HAPs <= 9.88 tons/yr (Includes HCl) including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Benzene <= 0.079 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	Hydrogen chloride <= 9.17 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	Dichlorobenzene (1,4-) <= 0.023 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Dichloroethane (1,2-) <= 0.01 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	Ethylbenzene <= 0.487 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	Naphthalene <= 0.049 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Trichloroethane (1,1,2) <= 0.01 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Vinyl chloride <= 0.048 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Hydrogen sulfide <= 10.6 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Methane <= 8,305 tons/yr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Flowrate <= 150,000 gallons per day of leachate for the entire facility. The annual leachate limit shall not exceed 36,500,000 gallons per year. (NOTE: The daily flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs. The Department reserves the right to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occur. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by material feed/flow monitoring daily, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage daily to monitor the flow of leachate. [N.J.A.C. 7:27-22.16(o)]	None.
32	H2S <= 30 ppbv averaged over any 30-minute period at or beyond the property line of the landfill. [N.J.A.C. 7:27- 7.3]	H2S: Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year 1. Periodic emission monitoring system approved, by Department's Bureau of Air Monitoring, shall be used to obtain a 30-minute average (5 minute block basis) reading. 2. Monitoring shall be performed downwind of the landfill at the property's fenceline. [N.J.A.C. 7:27-22.16(o)]	H2S: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record Date, Time, Name of Persons conducting monitoring, Wind Speed, Wind Direction, Location of Measurement and H2S concentrations. [N.J.A.C. 7:27-22.16(o)]	Submit an equipment protocol: Within 30 days from the date of the approved permit BOP160002, submit emissions monitoring protocol to the Bureau of Air Monitoring, 401 E. State Street, P.O. Box 420, Mail Code 401-07H,Trenton, NJ 08625-0420, for review and approval. The Guidance document can be found at NJDEP website at the following link: http://www.state.nj.us/dep/aqpp/permitguide/FencelineMonitoringPlanGuidance2015.pdf The applicant shall begin the H2S periodic emissions monitoring within 90 days of protocol approval by the Department. If the H2S ambient concentration at the facility's fenceline exceeds 30 ppbv, contact the NJDEP Hotline at 1-877-927-6337 immediately. [N.J.A.C. 7:27-22.16(o)]
33	All requests, reports, applications, submittals, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator. [40 CFR 60.4(a)]	None.	None.	Other (provide description): As per the approved schedule , submit reports to EPA Region II as required by 40 CFR 60. Submit Information to: Chief, Air Compliance Branch, Division of Enforcement and Compliance Asssistance, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	Submit a copy of all requests, reports, applications, submittals, and other communication required by 40 CFR 60 to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Other (provide description): As per the approved schedule , submit reports to the appropriate Regional Enforcement Office as required by 40 CFR 60. [40 CFR 60.4(b)]
35	A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in section 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Comply with the requirement: Upon occurrence of event submit notification to EPA Region II and the appropriate Regional Enforcement Office per 40 CFR 60.7. [40 CFR 60.7(a)(4)]
36	Any owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Other: Manual logging of Parameter (Permanently Bound). Upon occurrence of event.[40 CFR 60.7(b)].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	Any owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices ; and all other information required by this part recorded in a permanent form suitable for inspection. [40 CFR 60.7(f)]	None.	Other: See Applicable Requirement[40 CFR 60.7(f)].	None.
38	At all times, including periods of start-up, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operation and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]	None.	None.	None.
39	No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	All continuous monitoring systems or monitoring devices shall be installed such that representative process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring system contained in the applicable Performance Specifications of Appendix B of 40 CFR 60 shall be used. [40 CFR 60.13(f)]	None.	None.	None.

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Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS1 Landfill Waste Transfer and Processing equipped with H2S Plus control pretreatment system**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	This applicable requirement applies to CD1 and CD10. The flare shall reduce non-methane organic compounds (NMOC) by 98 weight percent or reduce NMOC outlet concentrations to less than 20 ppmv by volume. [N.J.A.C. 7:27-22.16(a)]	Monitored by temperature instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.
2	This applicable requirement applies to open flare CD11. The permittee must install, calibrate, and maintain according to manufacturer's specifications a gas flow rate measuring device that must measure and record the flow to the open flare. Open flare must be designed and operated in accordance with 40 CFR 60.18. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on 15 minute intervals. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The landfill gas flow must be recorded at least every 15 minutes. [N.J.A.C. 7:27-22.16(o)]	None.
3	For CD 11 only: Stack Gas Discharge Velocity <= 60 ft/sec. [40 CFR 60.18(c)(4)(i)]	Stack Gas Discharge Velocity: Monitored by the Department approved testing method once initially for determining the volumetric flowrate and unobstructed cross sectional area of the flare tip. [N.J.A.C. 7:27-22.16(o)]	Stack Gas Discharge Velocity: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Other (provide description): Other The Permittee provided the required proof of design and compliance with 40 CFR 60.18 to NJDEP on March 8, 2013. [N.J.A.C. 7:27-22.16(o)]
4	CO <= 24.17 lb/hr. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]
5	NOx (Total) <= 13.23 lb/hr. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	SO2 <= 5.9 lb/hr. [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs and by periodic emission monitoring using Hydrogen Sulfide (H2S) analyzer prior to combustion monthly and calculated using the following equations: lb SO2/hr = (X.X lb SO2/MMCf LFG) (MMcf/hr total) X.X lb SO2/MMscfLFG = [(X.X scf H2S/MMcf LFG)(1 scfSO2/scf H2S)(64.06 lbSO2/mol)]/(385.3 cft/mol), where: X.X scfH2S/MMcfLFG is the average monthly H2S concentration in the LFG. MMcf/hr total is the amount of LFG used by all flares during the time that the H2S monitoring was performed. . [N.J.A.C. 7:27-22.16(o)]	SO2: Recordkeeping by stack test results once initially and prior to permit expiration date. In addition, the results of the monthly H2S measurements and SO2 calculations shall be maintained. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]
7	TSP <= 3.55 lb/hr based on the AP-42 Table 2.4-5 emission factor of 17 lb PM / MM dscf CH4. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]
8	PM-10 (Total) <= 3.55 lb/hr based on the AP-42 Table 2.4-5 emission factor of 17 lb PM / MM dscf CH4. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]
9	PM-2.5 (Total) <= 3.55 lb/hr based on the AP-42 Table 2.4-5 emission factor of 17 lb PM / MM dscf CH4. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]
10	VOC (Total) <= 0.42 lb/hr. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results once initially and prior to permit expiration date. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. [N.J.A.C. 7:27-22.18(h)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
11	HAPs (Total) <= 2.25 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	Hydrogen sulfide <= 2.41 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	Benzene <= 0.018 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	Hydrogen chloride <= 2.09 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	Dichloroethane (1,2-) <= 0.00237 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	Dichlorobenzene (1,4-) <= 0.00515 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	Ethylbenzene <= 0.11 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	Naphthalene <= 0.011 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	Trichloroethane (1,1,2) <= 0.00228 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
20	Vinyl chloride <= 0.011 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	Methane < 1,896 lb/hr including uncollected landfill gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The Permittee shall sample and analyze the landfill gas (including methane) on a quarterly basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by gas sampling quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year, based on an instantaneous determination. After one year of sampling, the Permittee may request for a decrease in the frequency of sampling. The Department reserves the right to change the frequency of sampling based on a review of the analyses. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of sampling. [N.J.A.C. 7:27-22.16(o)]
23	When landfill gas is not acquired by the energy plant, it shall be controlled by flares (CD1, CD10 and CD11). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Total cumulative gas flow to the flare system (CD1, CD10 and CD11) <= 3160.96 MMscf in any 12 consecutive months. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a consecutive 12 month period (rolling 1 month basis). The landfill gas flow rate monitoring system shall: (1) correct and report from actual to standard cubic feet; (2) have an overall accuracy of not less than 0.5% or the best accuracy available; (3) be installed and operated in accordance with the instructions of the manufacturer; and (4) be equipped with a totalizer to continuously monitor the cumulative amount of landfill gas directed to each flare in scf. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
25	The H2S Plus sulfur control system is designed to remove 98% of hydrogen sulfide for all landfill gas concentrations having below 2,500 ppm H2S. Per OP permit modification BOP160002. [N.J.A.C. 7:27-22.16(a)]	Monitored by documentation of construction once initially. [N.J.A.C. 7:27-22.16(o)]	Other: Keep documentation for the life of the equipment.[N.J.A.C. 7:27-21.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
26	The maximum landfill gas throughput of the pretreatment system shall be sufficient to accommodate at least all the flow from Cells 5 and 6, per OP permit modification BOP160002. [N.J.A.C. 7:27-22.16(a)]	Other: Operator's control panel of the sulfur control system shall have instantaneous readout of the gas at the outlet of the system.[N.J.A.C. 7:27-22.16(o)].	Other: The H2S Plus sulfur control system is equipped with a programmable digital data recorder to record the gas flow at the outlet of the system at user defined intervals and storing on removable media. The data recorder shall be able to store one (1) year of data. Data shall be stored such that loss of power will not result in data loss.[N.J.A.C. 7:27-22.16(o)].	None.
27	H2S <= 120 ppmv at the outlet of sulfur control system. [N.J.A.C. 7:27-22.16(a)]	H2S: Monitored by periodic emission monitoring at the approved frequency. H2S outlet concentration in landfill gas shall be monitored by gas sampling each week. [N.J.A.C. 7:27-22.16(o)]	H2S: Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. outlet H2S concentration shall be recorded weekly. [N.J.A.C. 7:27-22.16(o)]	Other (provide description): Other Upon occurrence of high hydrogen sulfide concentration at system outlet, submit a report of non-compliance to the Regional Enforcement Office. Repair or replace the sulfur control media if needed. [N.J.A.C. 7:27-22.16(o)]
28	The permittee shall maintain the H2S Plus pretreatment system in accordance with the manufacturer's recommendations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Submit a collection and control system design plan to the Administrator for approval. The collection and control system shall meet the design requirements in 40 CFR 60.762(b)(2)(ii) and (b)(2)(iii). The collection and control system design plan must be prepared and approved by a professional engineer and must meet the requirements in 40 CFR 60.767(c). The collection and control system design plan must conform with specifications for active collection systems in 40 CFR 60.769. Per 40 CFR 60.767(d), submit a revised collection and control system design plan as follows: (1) at least 90 days before expanding operations to an area not covered by the previously approved design plan; (2) Prior to installing or expanding the gas collection system in a way that is not consistent with the design plan previously submitted to the Administrator. [40 CFR 60.762(b)(2)(i)]	None.	None.	Submit a plan: Once initially. The collection and control system design plan shall be submitted to the Administrator for approval within 1 year of the NMOC emission rate report that shows the NMOC emissions equal to or greater than 34 megagrams per year. The Administrator must either approve, disapprove, or request additional information. If the Administrator does not approve or disapprove the design plan, or does not request the additional information within 90 days of receipt, then the owner or operator may continue with implementation of the design plan, recognizing they would be proceeding at their own risk. The revised collection and control system design plan shall be submitted in accordance with the schedule in 40 CFR 767(d). The Permittee submitted the collection and control system design plan to EPA/NJDEP Central Enforcement Office on November 28, 2017, one year after the NMOC report submitted November 28, 2016 per 40 CFR 60.767(b), showing emissions equal to or greater than 34 megagrams per year. [40 CFR 60.767(c)]

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Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	The owner or operator must install and start up an active collection and control system within 30 months after the first annual report in which the NMOC emission rate equals to or exceeds 34 megagrams per year. The active collection system must: (1) Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control system equipment; (2) Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years or more if active; or 2 years or more if closed or at final grade. (3) Collect gas at a sufficient extraction rate; (4) Be designed to minimize off-site migration of subsurface gas. The gas collection system must be constructed using the equipment or processes described in 40 CFR 60.769(b). [40 CFR 60.762(b)(2)(ii)]	Other: The owner or operator shall determine whether the gas collection system is in compliance with 40 CFR 60.762(b)(2)(ii) using procedures in 40 CFR 60.765(a)(1) - calculating the maximum expected gas generation flow rate, (a)(2) - determining the density of gas collectors and (a)(3) - determining whether the gas collection system flow rate is sufficient. [40 CFR 60.765(a)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep up-to-date, readily accessible records for the life of the control system of the data in 40 CFR 60.768(b)(1) through (b)(5) as measured during the initial performance test or compliance demonstration. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. Per 40 CFR 60.768(c)(5), the owner or operator must keep records of periods when the collection system or control device is not operating. [40 CFR 60.768(b)(1)]	Submit a report: Annually. Submit an annual report electronically to Administrator. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). The report shall include all the information required in 40 CFR 60.767(g)(1) through (g)(7). The initial annual report shall be submitted within 180 days of installing and startup of the collection and control system and must include the initial performance test report required under 40 CFR 60.8 and 40 CFR 60.767(h), as applicable. If the reporting form specific to 40 CFR Subpart XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI. [40 CFR 60.767(g)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Route all the collected gas to either control system: (A) A non-enclosed flare designed and operated in accordance with the parameters established in 40 CFR 60.18; (B)) A control system designed and operated to reduce NMOC by 98 weight percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen; (C) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or beneficial use. Venting of treated landfill gas to the ambient air is not allowed. The treated landfill gas that cannot be routed for subsequent sale or beneficial use and all emissions from any atmospheric vent from the gas treatment system must be controlled according to either (A) or (B). The landfill gas must be conveyed to a control system through the collection header pipe(s). The gas mover equipment must be sized to handle the maximum gas generation flow rate, per 40 CFR 60.769(c). [40 CFR 60.762(b)(2)(iii)]	Monitored by stack emission testing once initially. The owner or operator shall demonstrate compliance by the performance tests required in 40 CFR 60.762(b)(2)(iii)(A) and (B) using test methods in 40 CFR 60.764(d) for an enclosed flare or 40 CFR 60.764(e) for an open flare, as applicable. The initial performance test is to be completed no later than 180 days after the initial startup of the approved control system. [40 CFR 60.764(e)] and [40 CFR 60.764(d)]	Recordkeeping by stack test results once initially. The owner or operator must keep up-to-date, readily accessible records for the life of the control system of the data in 40 CFR 60.768(b)(1) through (b)(5) as measured during the initial performance test or compliance demonstration. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. [40 CFR 60.768(b)]	Stack Test - Submit protocol, conduct test and submit results: Once initially. Submit the results of the performance tests, including associated fuel analyses required by 40 CFR 60.764(b) for a collection and control system or by 40 CFR 60.764(d) for an enclosed flare, electronically to Administrator, within 60 days after completing each test. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). The report shall include all the information required in 40 CFR 60.767(c)(4)(iii). If the reporting form specific to 40 CFR Subpart XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI. [40 CFR 60.764(e)(1)(iii)]
32	The landfill gas stream must be introduced into the flame zone of a boiler or process heater. [40 CFR 60.762(b)(2)(iiiB1)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record as an exceedance, under 40 CFR 60.767(g), whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under 40 CFR 60.768(b)(3). [40 CFR 60.768(c)(1)(ii)]	Submit a report: Annually. Report as an exceedance, under 40 CFR 60.767(g), whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under 40 CFR 60.768(b)(3). [40 CFR 60.768(c)(1)(ii)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	The control device must be operated within the parameters established during the initial or most recent performance test. The operating parameters to be monitored are specified in 40 CFR 60.766(b) or (c). [40 CFR 60.762(b)(2)(iiiB2)]	Monitored by other method (provide description) at the approved frequency. The operating parameters to be monitored are specified in 40 CFR 60.766(b) or (c). [40 CFR 60.766]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records of subsequent tests or monitoring must be maintained for a minimum of 5 years. on-site records. [40 CFR 60.768(b)]	None.
34	The collection and control system may be capped, removed or decommissioned if (A) a landfill is closed and a closure report has been submitted to the Administrator; (B) the collection system has been in operation a minimum of 15 years or the owner or operator demonstrates that the GCCS will be unable to operate for 15 years due to declining gas flow; and (C) the calculated NMOC emission rate based on the procedures specified in 40 CFR 60.764(b) is less than 34 megagrams per year on three successive test dates. [40 CFR 60.762(b)(2)(v)]	Monitored by calculations upon occurrence of event. The owner or operator must calculate the NMOC emission rate in accordance with 40 CFR 60.764(b) based on the measurements of the total flow rate and the average NMOC concentration. The test dates must be no less than 90 days apart, and no more than 180 days apart, per 40 CFR 60.762(b)(2)(v)(C). [40 CFR 60.764(b)]	None.	Submit a report: Upon occurrence of event. The owner or operator of a controlled landfill must submit a closure report within 30 days of waste acceptance cessation. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without filling a notification of modification as described under 40 CFR 60.7(a)(4). [40 CFR 60.767(e)]
35	The collection system shall be operated such that gas is collected from each area, cell, or group of cells in the MSW Landfill is which solid waste has been in place for: (1) 5 years or more if active; or (2) 2 years or more if closed or at final grade. Each well or designed component must be placed as specified in the approved design plan as provided in 40 CFR 60.767(c). [40 CFR 60.763(a)]	Other: Each well must be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of: (1) 5 years or more if active; or (2) 2 years or more if closed or at final grade. [40 CFR 60.765(b)].	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must keep for at least 5 years up-to-date, readily accessible, on-site records of the collection and control system design plan, the current amount of solid waste in place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.768(a)]	Demonstrate compliance: As per the approved schedule. The owner or operator must operate the collection system in accordance with an approved collection and control system design plan. [40 CFR 60.767(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	The owner or operator must operate the collection system with negative pressure at each wellhead, except under the following conditions: (1) a fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the required annual reports. (2) use of a geomembrane or synthetic cover. The owner or operator must develop acceptable pressure limits in the design plan; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. Per 40 CFR 60.765(a)(3), if a positive pressure exists, action must be initiated to correct the exceedance within 5 calendar days. Any attempted corrective measure must not cause exceedances of other operational or performance standards. [40 CFR 60.763(b)]	Monitored by pressure measurement device each month during operation. Measure the gauge pressure in the gas collection header applied to each individual well. [40 CFR 60.765(a)(3)] and [40 CFR 60.766(a)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. Also, the owner or operator must keep record of instances when positive pressure occurs in efforts to avoid a fire. Per 40 CFR 60.768(e)(4), keep a record on the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for actions(s) not already completed, a schedule for implementation. [40 CFR 60.768(e)(1)]	Comply with the requirement: Upon occurrence of event. The owner or operator must conduct a root cause analysis and initiate the corrective actions and correct the exceedance as soon as practicable but no later than 60 days after positive pressure was first measured. The corrective actions and corresponding implementation timeline must be submitted to the Administrator as part of the next annual report. [40 CFR 60.767(j)] and. [40 CFR 60.765(a)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	Operate each interior wellhead in the collection gas system with a landfill gas temperature less than 55 degrees Celsius. Per 40 CFR 60.765(a)(5), if a well exceeds the operating parameter for temperature, action must be initiated to correct the exceedance within 5 calendar days. Any attempted corrective measure must not cause exceedances of other operational or performance standards. [40 CFR 60.763(c)]	Monitored by temperature instrument each month during operation. Install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead. The temperature measuring device must be calibrated annually using the procedures in 40 CFR 60, Appendix A-1, Method 2, Section 10.3. [40 CFR 60.766(a)(3)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. The owner or operator must also keep records of each wellhead temperature monitoring value of 55 degrees Celsius (131 degrees Fahrenheit) or above, each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent. Per 40 CFR 60.768(e)(4), keep a record on the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for actions(s) not already completed, a schedule for implementation. [40 CFR 60.768(e)(2)]	Comply with the requirement: Upon occurrence of event. The owner or operator must conduct a root cause analysis and initiate the corrective actions and correct the exceedance as soon as practicable but no later than 60 days after a landfill gas temperature greater than 55 degrees Celsius was first measured. The corrective actions and corresponding implementation timeline must be submitted to the Administrator as part of the next annual report. [40 CFR 60.767(j)] and. [40 CFR 60.765(a)(5)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
38	The owner or operator must operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill. The surface testing must be conducted around the perimeter of the collection area and along a pattern that traverses the landfill at no more than 30-meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover and all cover penetrations. A surface monitoring design plan must be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30-meter intervals. The owner or operator must implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis per 40 CFR 60.765(c)(5). [40 CFR 60.763(d)]	Monitored by periodic emission monitoring quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals (or a site specific established spacing) for each collection area using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.765(d). The background concentration must be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. Surface emission monitoring must be performed in accordance with section 8.3.1 of Method 21 of appendix A to 40 CFR 60, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions. [40 CFR 60.765(c)]	Recordkeeping by manual logging of parameter or storing data in a computer data system quarterly: once per quarter; quarters shall begin on January 1, April 1, July 1, and October 1 of each year. Any reading of 500 ppm or more above background must be recorded as a monitored exceedance and the actions specified in 40 CFR 60.765(c)(4)(i) through (v) must be taken. The owner or operator must keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.765(c)(4)]	Demonstrate compliance: Upon occurrence of event. In case of an exceedance of 500 ppm methane concentration: i) The location and concentration of each monitored exceedance must be marked and recorded. (ii) Cover maintenance or adjustments to the vacuum of the adjacent wells in the vicinity of each exceedance must be made and the location must be re-monitored within 10 calendar days of detecting the exceedance. (iii) If the re-monitoring shows a second exceedance, additional corrective action must be taken and the location must be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance for the same location, the action in (v) must be taken. (iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day re-monitoring must be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration less than 500 ppm, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in (iii) or (v) must be taken. (v) For any location where monitored methane concentration equals or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device must be installed within 120 calendar days of the initial exceedance. [40 CFR 60.765(c)(4)]

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39	Operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.762(b)(2)(iii). In the event the collection or control system is not operating, the gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating. [40 CFR 60.763(e)]	None.	None.	Comply with the requirement: Upon occurrence of event. In the event the collection or control system is not operating, the gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating. [40 CFR 60.763(e)]
40	Operate the control system at all times when the collected gas is routed to the system. [40 CFR 60.763(f)]	None.	None.	None.
41	The provisions of NSPS XXX apply at all times, including startup, shutdown or malfunction. During periods of startup, shutdown, and malfunction, the owner or operator must comply with the work practice specified in 40 CFR 60.763(e) (the gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating) in lieu of the compliance provisions of 40 CFR 60.765. [40 CFR 60.765(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
42	The owner or operator must monitor nitrogen or oxygen concentration in the landfill gas at each wellhead. [40 CFR 60.766(a)(2)]	Monitored by periodic emission monitoring each month during operation. (i) The nitrogen level must be determined using Method 3C. (ii) The oxygen level must be determined by an oxygen meter using Method 3A, 3C, or ASTM D6522–11 (if sample location is prior to combustion) (iii) A portable gas composition analyzer may be used to monitor the oxygen levels provided: (A) The analyzer is calibrated; and (B) The analyzer meets all quality assurance and quality control requirements for Method 3A or ASTM D6522–11. . [40 CFR 60.766(a)(2)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator must keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 40 CFR 60.763, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. The owner or operator must also keep records of each wellhead temperature monitoring value of 55 degrees Celsius (131 degrees Fahrenheit) or above, each wellhead nitrogen level at or above 20 percent, and each wellhead oxygen level at or above 5 percent. [40 CFR 60.768(e)(2)]	None.
43	The owner or operator must calibrate, maintain, and operate according to manufacturer's specifications, a temperature monitoring device to monitor the gas combustion temperature at an enclosed combustor. [40 CFR 60.766(b)(1)]	Monitored by temperature instrument continuously. A temperature monitoring device shall have a minimum accuracy of +/- 1 percent of the temperature being measured expressed in degrees Celsius or +/- 0.5 degrees Celsius, whichever is greater. [40 CFR 60.766(b)(1)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 60.766(b)(1)]	Submit a report: Annually. The following exceedances must be recorded and reported in the annual report to the Administrator: All 3 hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees F) below the average combustion temperature during the most recent performance test. [40 CFR 60.768(c)(1)]
44	The owner or operator must install, calibrate, and maintain a gas flow rate measuring device that must measure and record the flow to the enclosed combustor and bypass of the control device (if applicable). The owner or operator must secure the bypass line valve in the closed position with a car-seal or a lock-and- key type configuration. [40 CFR 60.766(b)(2)]	Monitored by gas flow rate instrument continuously, based on 15 minute intervals. In addition, a visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.766(b)(2)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The gas flow must be recorded at least every 15 minutes. Per 40 CFR 60.768(c)(2), the owner or operator must keep up to date, readily accessible continuous records of the indication of flow to the control system and the indications of bypass flow or records of monthly inspections of a car-seal or a lock-and- key configurations used to seal bypass lines. [40 CFR 60.766(b)(2)]	Submit a report: Annually. The annual report must include a description and duration of all periods when the gas stream was diverted from the control devise or a treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 60.766. [40 CFR 60.767(g)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	The owner or operator must install, calibrate, maintain, and operate according to manufacturer's specifications, a heat sensing device on the open flare, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame. [40 CFR 60.766(c)(1)]	Monitored by flame monitor continuously. [40 CFR 60.766(c)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The owner or operator must keep up to date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under 40 CFR 60.766(c), and records of all periods of operation in which the flame of flare pilot flame is absent. [40 CFR 60.768(c)(4)]	None.
46	The owner or operator must install, calibrate, and maintain according to manufacturer's specifications a gas flow rate measuring device that must measure and record the flow to the open flare and bypass of the control device (if applicable). The owner or operator must secure the bypass line valve in the closed position with a car-seal or a lock-and- key type configuration. [40 CFR 60.766(c)(2)]	Monitored by gas flow rate instrument continuously, based on 15 minute intervals. In addition, a visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.766(c)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The gas flow must be recorded at least every 15 minutes. Per 40 CFR 60.768(c)(2), the owner or operator must keep up to date, readily accessible continuous records of the indication of flow to the control system and the indications of bypass flow or records of monthly inspections of a car-seal or a lock-and- key configurations used to seal bypass lines. [40 CFR 60.766(c)(2)]	Submit a report: Annually. The annual report must include a description and duration of all periods when the gas stream was diverted from the control devise or a treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 60.766. [40 CFR 60.767(g)(2)]
47	The owner or operator must maintain and operate all monitoring systems associated with the treatment system in accordance with the site-specific treatment system monitoring plan to ensure the treatment system is operating properly for each intended end user of the treated landfill gas. The treatment monitoring plan shall include the following: Monitoring methods, frequencies, and operating ranges for each monitored operating parameter based on manufacturer's recommendations or engineering analysis for each intended end use of the treated landfill gas. [40 CFR 60.766(g)]	Other: Operate all monitoring systems in accordance with the site-specific treatment system monitoring plan. [40 CFR 60.766(g)].	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. At a minimum, records should include records of filtration, de-watering, and compression parameters that ensure the treatment system is operating properly for each intended end use of the treated landfill gas. Keep documentation of the monitoring methods and ranges, along with justification for their use; Identify who is responsible (by job title) for data collection; Processes and methods used to collect the necessary data; Description of the procedures and methods that are used for quality assurance, maintenance, and repair of all continuous monitoring systems. [40 CFR 60.768(b)(5)]	Comply with the requirement: Once initially. The owner or operator must prepare site-specific treatment system monitoring plan as specified in 40 CFR 60.768(b)(5). [40 CFR 60.767(c)(7)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
48	The owner or operator must install, calibrate, and maintain according to manufacturer's specifications a gas flow rate measuring device that must measure and record the flow to the treatment system and bypass of the treatment system (if applicable). The owner or operator must secure the bypass line valve in the closed position with a car-seal or a lock-and- key type configuration. [40 CFR 60.766(g)]	Monitored by gas flow rate instrument continuously, based on 15 minute intervals. In addition, a visual inspection of the seal or closure mechanism must be performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.766(g)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The gas flow must be recorded at least every 15 minutes. The owner or operator must maintain records of the flow of landfill gas to, and bypass of, the treatment system. Per 40 CFR 60.768(b)(5), the owner or operator must keep up to date, readily accessible continuous records of the indication of flow to the control system and the indications of bypass flow or records of monthly inspections of a car-seal or a lock-and- key configurations used to seal bypass lines. [40 CFR 60.768(b)(5)] and [40 CFR 60.768(c)(2)]	Submit a report: Annually. The annual report must include a description and duration of all periods when the gas stream was diverted from the control devise or a treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 60.766. [40 CFR 60.767(g)(2)]
49	The monitoring requirements for an open flare, enclosed combustor, and treatment system apply at all times that the affected source is operating, except for periods of monitoring system malfunctions, as defined in 40 CFR 60.766(g), repairs associated with monitoring system malfunctions, and required monitoring system quality assurance or quality control activities. The owner or operator is required to complete monitoring system repairs and to return the monitoring system to operation as expeditiously as practicable. [40 CFR 60.766(h)]	None.	None.	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
50	The owner or operator shall submit to the Administrator the initial design capacity report. The initial design capacity report must contain information specified in 40 CFR 60.767(a)(2). Per 40 CFR 60.767(b)(1)(i), the initial NMOC emission rate report may be combined with the initial design capacity report required in 40 CFR 60.767(a). [40 CFR 60.767(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep readily accessible, on-site records of the annual recalculation of site specific density, design capacity, and the supporting documentation. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable. [40 CFR 60.767(a)(2)(ii)]	Submit a report: Once initially to the Administrator by November 28, 2016 for landfills that commenced commence construction, modification, or reconstruction before August 29, 2016 or ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction after August 29, 2016. The Permittee submitted the initial design capacity report / initial NMOC emission rate report to EPA/NJDEP Central Enforcement Office on November 28, 2016. [40 CFR 60.767(a)(1)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	The owner or operator shall submit to the Administrator a non-methane organic compounds (NMOC) emission rate report initially and annually thereafter. The emission rate report must contain an annual or 5-year estimate of the NMOC emission rate calculated using the formula and procedures provided in 40 CFR 60.764(a) or (b), as applicable. The Administrator may request such additional information as may be necessary to verify the reported NMOC emission rate. Per 40 CFR 60.767(b)(1)(i), the initial NMOC emission rate report may be combined with the initial design capacity report required in 40 CFR 60.767(a). [40 CFR 60.767(b)]	Monitored by calculations annually. The NMOC mass emission rate shall be recalculated annually, except as provided in 40 CFR 60.767(b)(1)(ii). [40 CFR 60.764(a)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [40 CFR 60.764(a)]	Submit a report: Annually. Submit an initial NMOC mass emission rate report electronically to the Administrator by November 28, 2016 for landfills that commenced commence construction, modification, or reconstruction before August 29, 2016; or ninety days after the date of commenced construction, modification, or reconstruction for landfills that commence construction, modification, or reconstruction after August 29, 2016. Subsequent NMOC reports shall be submitted annually thereafter. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). If the reporting form specific to NSPS XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI. The report is no longer required after the owner or operator installs and operates in compliance with 40 CFR 60.763 and 60.765, a collection and control system that complies with 40 CFR 60.762(b)(2). [40 CFR 60.767(b)]
52	The owner or operator of a controlled landfill must submit a closure report within 30 days of waste acceptance cessation. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without filling a notification of modification as described under 40 CFR 60.7(a)(4). [40 CFR 60.767(e)]	None.	None.	Submit a report: Upon occurrence of event to the Administrator within 30 days of waste acceptance cessation. [40 CFR 60.767(e)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
53	The owner or operator of a controlled landfill must submit an annual report to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.768(c) as follows: all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.762(b)(2)(iii) was determined. If the reporting form specific to 40 CFR Subpart XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI. [40 CFR 60.767(g)]	None.	None.	Submit a report: Annually. Submit an annual report electronically to Administrator. The initial annual report must be submitted within 180 days of installation and startup of the collection and control system and must include the initial performance test report required under 40 CFR 60.8 and 40 CFR 60.767(h), as applicable. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). The report shall include all the information required in 40 CFR 60.767(g)(1) through (g)(7): (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.766(a), (b), (c), (d), and (g). (2) Description and duration of all periods when the gas stream was diverted from the control device or treatment system. (3) Description and duration of all periods when the control device or treatment system was not operating. (4) All periods when the collection system was not operating. (5) The location and concentration of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.763(d). (6) The date of installation and the location of each well or collection system expansion added. (7) For any corrective action analysis for which corrective actions take more than 60 days, the root cause analysis conducted, and, for action(s) not already completed, a schedule for implementation. [40 CFR 60.767(g)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
54	Each owner or operator seeking to comply with 40 CFR 60.762(b)(2)(iii) must include the following information with the initial performance test report required under 40 CFR 60.8: (1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion; (2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based; (3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material; (4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and (5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and (6) The provisions for the control of off-site migration. [40 CFR 60.767(h)]	None.	None.	Submit a report: As per the approved schedule. [40 CFR 60.767(h)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
55	The owner or operator that has employed leachate recirculation within the last 10 years must submit information required in 40 CFR 60.767(k)(1) through (6) on an annual basis. [40 CFR 60.767(k)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of any engineering calculations or company records used to estimate the quantities of leachate or liquids added, the surface areas for which the leachate or liquids were applied, and the estimates of annual waste acceptance or total waste in place in the areas where leachate or liquids were applied. [40 CFR 60.768(j)]	Submit a report: Annually. The initial annual report must be submitted to the Administrator no later than September 28, 2017 for landfills that commenced commence construction, modification, or reconstruction before August 29, 2016 or no later than 13 months after the date construction, modification, or reconstruction. Subsequent reports must be submitted no later than 365 days after the date of the previous report submittal. The reports shall be submitted to the EPA via CEDRI through the EPA's Central Data Exchange (CDX). The initial report must contain data for the initial annual reporting period as well as for each of the previous 10 years. All reports must include information in 40 CFR 60.767(k)(1) through (6) including: volume of leachate recirculated; total volume of all other liquids added; surface area over which the leachate and/or other liquids are applied; the total waste disposed and the annual waste acceptance in the areas with recirculated leachate and/or added liquids. If the reporting form specific to 40 CFR Subpart XXX is not available in CEDRI at the time that the report is due, the owner or operator must submit the report to the Administrator at the address listed in 40 CFR 60.4. Once the form has been available in CEDRI for 90 calendar days, the owner or operator must begin submitting all subsequent reports via CEDRI. The Permittee submitted an initial annual report to EPA/NJDEP Central Enforcement Office on September 25, 2017. [40 CFR 60.767(k)]

U64 Landfill, Waste transfer and processing equipped with H2S Plus control .
OS1

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
56	The owner or operator must comply with the general provisions specified in Table 1 of 40 CFR 63 Subpart AAAA. [40 CFR 63.1955]	Other: The owner or operator shall comply, as applicable, with the monitoring requirements as required in 40 CFR 63 Subpart A.[40 CFR 63].	Other: The owner or operator shall comply, as applicable, with the recordkeeping requirements as required in 40 CFR 63 Subpart A.[40 CFR 63].	Comply with the requirement: As per the approved schedule The owner or operator shall comply, as applicable, with the submittal/action requirements as required in 40 CFR 63 Subpart A. The owner or operator shall submit all required reports to the EPA and NJDEP Regional Enforcement Office. [40 CFR 63]
57	Demonstrate compliance with the operating conditions for control systems including continuous parameter monitoring data collected under 40 CFR 60.756(b)(1) of subpart WWW. (40 CFR 63, Subpart AAAA). [40 CFR 63.1960]	Monitored by parametric monitoring system continuously. [40 CFR 63.1960]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. [40 CFR 63.1960]	Comply with requirement: As per the approved schedule. [40 CFR 63.1980]
58	The owner/operator must develop and implement a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). (40 CFR 63, Subpart AAAA). [40 CFR 63.1960]	None.	Other: Maintain a current copy of the SSM plan on site.[40 CFR 63.1980].	None.
59	For the purposes of the landfill monitoring and SSM plan requirements, deviations (as defined in 40 CFR 63.1990) include the items in paragraphs (a) through (c) of this section. (a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of subpart WWW are exceeded. (b) A deviation occurs when 1 hour or more of the hours during the 3-hour block averaging period (refer to 40 CFR 63.1975) does not constitute a valid hour of data. A valid hour of data must have measured values for at least three 15-minute monitoring periods within the hour. (c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site.(40 CFR 63 Subpart AAAA). [40 CFR 63.1965]	Other: Averages are calculated in the same way as they are calculated in 40 CFR part 60, subpart WWW, except that the data collected during the events listed in paragraphs (a), (b), (c), and (d) of 40 CFR 63.1975 are not to be included in any average computed under 40 CFR 63 subpart AAAA: (a) Monitoring system breakdowns, repairs, calibration checks, and zero (low-level) and high-level adjustments; (b) Startups; (c) Shutdowns; (d) Malfunctions. [40 CFR 63.1975].	None.	Submit a report: Upon occurrence of event. The report shall consist of a telephone call or facsimile and shall be submitted within 2 working days after commencing action, followed by a letter delivered or postmarked within 7 working days after the end of the event. [40 CFR 63.10(d)(5)(ii)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
60	Each owner or operator shall submit reports every 6 months to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c) as follows: all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined. (40 CFR 63, Subpart AAAA.) [40 CFR 63.1980(a)]	None.	None.	Submit a report: As per the approved schedule. The biannual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f)] &. [40 CFR 63.1980(a)]
61	Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a temperature monitoring device equipped with a continuous recorder and having a minimum accuracy of +/- 1 percent of the temperature being measured expressed in degrees Celsius or +/- 0.5 degrees Celsius, whichever is greater. [40 CFR 63 Subpart AAAA] and [40 CFR 60.756(b)(1)]	Other: Monitored by temperature instrument measured at least every 15 minutes and averaged over the same time period of the performance test. See Applicable Requirement.[40 CFR 60.758(b)(2)].	Recordkeeping by strip chart or data acquisition (DAS) system continuously. See Applicable Requirement. [40 CFR 60.758(c)]	None.

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
62	Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a gas flow rate measuring device that records flow to or bypass of the control device; or secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. [40 CFR 63 Subpart AAAA] and [40 CFR 60.756(b)(2)]	Monitored by gas flow rate instrument continuously recording the flow to the control device at least every 15 minutes; or by visual inspection of the seal or closure mechanism performed at least once every month to ensure that the valve is maintained in the closed position and that the gas flow is not diverted through the bypass line. [40 CFR 60.756(b)(2)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously ; or manual logging of visual inspections (permanently bound), monthly. [40 CFR 60.756(b)(2)]	None.
63	Each owner or operator shall submit annual reports to the Administrator. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR 60.758(c) as follows: all 3-hour periods of operation during which the average temperature was more than 28 degrees Celsius (82 degrees Fahrenheit) below the average combustion temperature during the most recent performance test at which compliance with 40 CFR 60.752(b)(2)(iii) was determined. [40 CFR 63 Subpart AAAA] and [40 CFR 60.757(f)]	None.	None.	Submit a report: As per the approved schedule. The annual reports shall include the following recorded information: (1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR 60.756(a), (b), (c), and (d). (2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 40 CFR 60.756. (3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating. (4) All periods when the collection system was not operating in excess of 5 days. (5) The location of each exceedance of the 500 parts per million methane concentration as provided in 40 CFR 60.753(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. (6) The date of installation and the location of each well or collection system expansion added pursuant to 40 CFR 60.755(a)(3), (b), and (c)(4). [40 CFR 60.757(f)]

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New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS2 Anaerobic Leachate Treatment 1**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	SO2 <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Flowrate <= 150,000 gallons per day for the leachate. (NOTE: Flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs. The Department reserves the right to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occurs. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The Permitte shall sample the leachate on an annual basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by product sampling (provide description) annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually of the analytical results from the leachate sampling, to the Chief, Regional Enforcement within 60 days of sampling. The Regional Office reserves the right to change the frequency of samping based on the review of the analysis. [N.J.A.C. 7:27-22.16(o)]
7	The Permitee shall maintain and calibrate the flow monitoring equipment as required by the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS3 leachate equalization lagoon**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	SO2 <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Flowrate <= 150,000 gallons per day for the leachate. (NOTE: Flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs. The Department reserves the rigth to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occurs. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The Permittee shall sample the leachate on an annual basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by product sampling (provide description) annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually of the analytical results from the leachate sampling, to the Chief, Regional Enforcement within 60 days of sampling. The Regional Office reserves the right to change the frequency of samping based on the review of the analysis. [N.J.A.C. 7:27-22.16(o)]
7	The Permitee shall maintain and calibrate the flow monitoring equipment as required by the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS4 Anaerobic Leachate Treatment 2**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	SO2 <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Flowrate <= 150,000 gallons per day for the leachate. (NOTE: Flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs.) The Department reserves the rigth to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occurs. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The Permittee shall sample the leachate on an annual basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by product sampling (provide description) annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually of the analytical results from the leachate sampling, to the Chief, Regional Enforcement within 60 days of sampling. The Regional Office reserves the right to change the frequency of samping based on the review of the analysis. [N.J.A.C. 7:27-22.16(o)]
7	The Permitee shall maintain and calibrate the flow monitoring equipment as required by the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS5 leachate storage (tank 1)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	SO2 <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Flowrate <= 150,000 gallons per day for the leachate. (NOTE: Flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs.) The Department reserves the rigth to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occurs. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The Permittee shall sample the leachate on an annual basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by product sampling (provide description) annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually of the analytical results from the leachate sampling, to the Chief, Regional Enforcement within 60 days of sampling. The Regional Office reserves the right to change the frequency of samping based on the review of the analysis. [N.J.A.C. 7:27-22.16(o)]
7	The Permitee shall maintain and calibrate the flow monitoring equipment as required by the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS6 leachate storage (tank 2)**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.35 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.2 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	SO2 <= 2.32 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Flowrate <= 150,000 gallons per day for the leachate. (NOTE: Flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs.) The Department reserves the rigth to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occurs. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The Permittee shall sample the leachate on an annual basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by product sampling (provide description) annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually of the analytical results from the leachate sampling, to the Chief, Regional Enforcement within 60 days of sampling. The Regional Office reserves the right to change the frequency of samping based on the review of the analysis. [N.J.A.C. 7:27-22.16(o)]
7	The Permitee shall maintain and calibrate the flow monitoring equipment as required by the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U64 Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system**
Operating Scenario: **OS7 Anaerobic Leachate Treatment 3**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	CO <= 0.18 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
2	NOx (Total) <= 0.1 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	SO2 <= 1.16 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
4	Hydrogen sulfide <= 0.07 lb/hr. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Flowrate <= 150,000 gallons per day for the leachate. (NOTE: Flowrate limit is not applicable when heavy precipitation (snow or rain fall) occurs.) The Department reserves the rigth to ask the Permittee to revise leachate flow rate if continued exceedances due to heavy precipitation occurs. The Permitee shall install a flow meter and computer recording system to monitor and record leachate flow. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
6	The Permittee shall sample the leachate on an annual basis. [N.J.A.C. 7:27-22.16(e)]	Monitored by product sampling (provide description) annually, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Annually of the analytical results from the leachate sampling, to the Chief, Regional Enforcement within 60 days of sampling. The Regional Office reserves the right to change the frequency of samping based on the review of the analysis. [N.J.A.C. 7:27-22.16(o)]
7	The Permitee shall maintain and calibrate the flow monitoring equipment as required by the manufacturers specifications. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Doppstadt SM 720.2 K Trommel with Deutz Diesel engine, U68 Doppstadt SM 720.2 K Trommel with Deutz Diesel engine**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The fugitive emissions from excavated waste, stripped soil cover material staging, and stockpiling of screened oversize and undersize material shall be below deminimus level of 0.05 lb./hr of total suspended particulates. [N.J.A.C. 7:27-22.16(a)]	Monitored by calculations once initially and prior to permit expiration date based on the allowable or actual rate and duration of excavation, stock piling and screening. Permittee may use emission factors from US EPA AP 42 publication. [N.J.A.C. 7:27-22.16(o)]	None.	None.
2	The permittee shall not use screener(s) to process the excavated material from landfill in excess of 600 tons per hour of feed rate for total screening capacity. This screening capacity can be achieved by using up to two individual screeners. [N.J.A.C. 7:27-22.16(a)]	Monitored by waste feed/charge rate monitoring (solid) once per calendar day during operation, based on one calendar day. Alternatively the permittee may monitor by volumetric material moved from screener to the storage area. You may use appropriate density of material moved to arrive at weight basis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27-22.16(o)]	None.
3	The screener and engine shall be operated as per manufacturer's Operating and Maintenance manual. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. The O & M manual shall be made available to the Department's representative upon request. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Prohibition of Odor: OCLC shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which unreasonably interferes with the enjoyment of life or property. [N.J.A.C. 7:27- 5.2(a)]	Monitored by other method (provide description) twice per day (i.e. two monitoring events approximately four hours apart). An offsite Odor Survey shall be conducted downwind of the work area at or near the property line when work is being performed in the excavation area. If odor from the excavation operation is detected at property line, OCLC will expand monitoring to the closest downwind neighborhood. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system twice per day Using the Odor Investigation Field Data Form attached with this Permit, a record shall be kept of all monitoring results documenting odors from the excavation site falling within any class described at the Department's website http://www.nj.gov/dep/enforcement/docs/odor.pdf. If any corrective action is undertaken, the type and duration of control measures implemented, and the duration of any suspension of excavation activities shall be recorded. [N.J.A.C. 7:27-22.16(o)]	Other (provide description): Upon occurrence of event of odor detection of a class 3, 4 or 5 odor at the closest downwind neighborhood, the Permittee shall, within one hour, determine and document the severity, duration and characteristics of the odor (see ODOR FACT SHEET at http://www.nj.gov/dep/enforcement/docs/odor.pdf) In the case where this odor is attributable to excavation activities, the Permittee shall implement the odor control measures as defined in the Department issued SW Multiple Operations - Minor Modification Permit (SWF130001 dated 11/14/2013). If corrective measures do not cause a reduction in the detected odor to a Class 2 or lower odor at the closest downwind neighborhood within 8 hours, the excavation activities at the site shall be suspended and may not be resumed until such reduction has occurred, unless the Permittee can demonstrate, to the Department's satisfaction, that the odor detected is not from the excavation activities. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Ambient air concentration H2S <= 30 ppbv. [N.J.A.C. 7:27-22.16(a)]	H2S: Monitored by periodic emission monitoring twice per day (i.e. two monitoring events approximately four hours apart) based on 30 minute block average. Periodic emission monitoring shall be performed at least twice per day, downwind of the excavation site at the property boundary. OCLC may reduce the frequency of monitoring H2S to once per day, if sixty consecutive readings during monitoring events show H2S concentration of less than 30 ppbv. Subsequently, if the H2S concentration measured to be 30 ppbv or above, OCLC shall revert to at least two monitoring events per day. This frequency of monitoring described above shall be repeated with each new phase of excavation starting with twice a day. NOTE: 1.During first five minutes of any monitoring event, if the H2S concentration detected is 3 ppbv or lower, the permittee may discontinue the monitoring for remaining 25 minutes. 2. OCLC may propose further reduction in monitoring H2S by submitting application using procedures for minor modification of the current permit laid down pursuant to N.J.A.C. 7:27-22.23, only if during monitoring events within first 180 working days show H2S concentration of less than 30 ppbv. [N.J.A.C. 7:27-22.16(o)]	H2S: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event for each monitoring event. A. For monitoring events, the following parameters shall be recorded: Date, Time, Name of Persons conducting monitoring, Wind Speed, Wind Direction, Location of Measurement and H2S concentrations. B. OCLC shall record the date and time of the activation of the Corrective Action Plan. C. OCLC shall record the date and time of the commencement of the excavation of any new phase. All records shall be kept in a permanently bound log book or computer data sysytem acceptable to the Regional Enforcement Office. [N.J.A.C. 7:27-22.16(o)]	Submit notification: As per the approved schedule. As soon as H2S concentration of 30 ppbv or greater is detected, the designated Emergency Co-coordinator Supervisor (ECS) shall implement the Corrective Actions Plan described in OCLC 's Health and Safety Plan. If the corrective actions undertaken cannot decrease H2S below 30 ppbv within four hours from the start of the corrective action(s), or OCLC cannot demonstrate to the Department’s satisfaction that OCLC is not the source of the H2S within thirty minutes, all activities related to excavation shall cease. The ECS shall continue to take corrective measures until the H2S concentration is below 30 ppbv. OCLC shall immediately notify the Department’s Hotline at 1-(877)-WARNDEP upon any measured exceedances of the 30 ppbv (from an appropriately calibrated instrument) Action Limit and/or upon the activation of the Corrective Action Plan. OCLC shall notify the Department’s Hotline at 1-(877)-WARNDEP 24 hrs prior to changing the frequency of periodic monitoring events and/or the excavation of any new phase. [N.J.A.C. 7:27-22.16(o)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	The permittee shall implement a Dust Management Plan as follows: 1. Utilize the existing Dust control requirements at Attachment A of the Operations and Maintenance Manual. 2. Take corrective actions as needed; 3. Monitor visual impacts 3. The personnel must be provided with the checklist of all items to be inspected, inspection procedures, dust management procedures, and corrective actions for expected malfunctions. 4. The Plan and record of any corrective actions shall be kept on site and made available to the Department personnel upon request. 5. The permittee shall follow visual opacity inspections requirements listed in this permit under OS Summary. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The parameters recorded shall include the completed inspection checklist and corrective actions, if any. The checklist shall include the date and time and the name and position of the person completing the checklist and be signed by that person. [N.J.A.C. 7:27-22.16(o)]	Submit notification: Every week if corrective actions were taken. The Department may modify the Dust Management Plan, and the modification shall be implemented by the permittee within seven (7) days of the Department's notication. [N.J.A.C. 7:27-22.16(o)]
7	OPACITY: The permittee shall not use the equipment in a manner which will cause visible emissions (exclusive of condensed water vapor) beyond the site property line, verified by the operator. If visible emissions are observed, the Permittee shall implement dust control requirements section 6.4.1 of the Operations and Maintenance Manual for OCLF. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination daily. The Permittee shall conduct visual opacity inspections during daylight hours while the source is operating. The individual conducting the daily opacity inspections does not need to be a certified opacity reader. [N.J.A.C. 7:27-22.16(o)]	None.	Using Dust Control plan Attachment B Comply with the requirement: Upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]
8	TSP <= 9.8 tons/yr for Screener 2A or 2B. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations annually based on actual hours/fuel used in Engine and soil processing rate and emissions factor used in the application. [N.J.A.C. 7:27-22.16(o)]	None.	None.
9	PM-10 (Total) <= 3.42 tons/yr for Screener 2A or 2B. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations annually based on actual hours/fuel use in Engine and processing rate and emissions factor used in the application. [N.J.A.C. 7:27-22.16(o)]	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-2.5 (Total) <= 0.083 tons/yr for Screener 2A or 2B. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations annually based on actual hours/fuel use in Engine and processing rate and emissions factor used in the application. [N.J.A.C. 7:27-22.16(o)]	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U67 Doppstadt SM 720.2 K Trommel with Deutz Diesel engine**
Operating Scenario: **OS1 RICE powered material Screener 2A**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 6.28 lb/hr from Screener 2A or 2B. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
2	PM-10 (Total) <= 2.2 lb/hr from Screener 2A or 2B. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.
3	PM-2.5 (Total) <= 0.053 lb/hr from Screener 2A or 2B. [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	PM-2.5 (Total): Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. [N.J.A.C. 7:27-22.16(o)]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U68 Doppstadt SM 720.2 K Trommel with Deutz Diesel engine**

Operating Scenario: **OS1 RICE powered material Screener 2B**

The requirements for this item are identical to those for: U67 OS1

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U69 (EG-003-2) Emerg. Gen., 250 kW**
Operating Scenario: **OS Summary**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Opacity <= 20 % , exclusive of visible condensed water vapor, except for a period of not longer than 10 consecutive seconds. [N.J.A.C. 7:27- 3.5]	None.	None.	None.
2	TSP <= 1.61 lb/hr. Particulate emission limit from the combustion of fuel based on the rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
4	Fuel stored in New Jersey that met the applicable maximum sulfur content standard of Tables 1A or 1B of N.J.A.C. 7:27-9.2 at the time it was stored in New Jersey may be used in New Jersey after the operative date of the applicable standard in Table 1B. [N.J.A.C. 7:27- 9.2(b)]	None.	None.	None.
5	Sulfur Content in Fuel <= 0.0015 % by weight. Maximum allowable sulfur content in No. 2 fuel oil, diesel fuel or kerosene shall be no more than 15 ppm (0.0015% by wt.). [N.J.A.C. 7:27-22.16(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
6	The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input, Maximum Rated Power Output, Model Year and Displacement. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The owner or operator shall keep records of engine manufacturer data for the life of the equipment showing the rated Maximum Gross Heat Input, Maximum Rated Power Output, Model Year and Displacement. [N.J.A.C. 7:27-22.16(o)].	None.
7	Generator fuel limited to No. 2 fuel oil, diesel fuel or kerosene. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	The emergency generator shall be located at the facility and produce mechanical or thermal energy, or electrical power exclusively for use at the facility. This emergency generator shall be operated only: 1. During the performance of normal testing and maintenance procedures, as recommended in writing by the manufacturer and/or as required in writing by a Federal or State law or regulation, 2. When there is power outage or the primary source of mechanical or thermal energy fails because of an emergency, or 3. When there is a voltage reduction issued by PJM and posted on the PJM internet website (www.pjm.com) under the "emergency procedures" menu. [N.J.A.C. 7:27-19.1]	Monitored by hour/time monitor continuously. In addition, the owner or operator shall monitor, once per month, the total operating time from the generator's hour meter; hours of operation for emergency use; hours of operation for testing and maintenance; and the total fuel usage calculated by the following: Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour). Hours of operation for emergency use (per month) = (The monthly total operating time from the generator's hour meter) - (The monthly total operating time for testing or maintenance) [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system at the approved frequency. The owner or operator shall maintain on site and record the following information: 1. Once per month, the total operating time from the generator's hour meter, the fuel usage (gallons per month) and the hours of operation for emergency use (per month). Document if the emergency use was due to internal or external loss of primary source of energy. If internal loss at the facility, document the emergency that occurred, the damages to the primary source of energy and the amount of time needed for repairs. 2. For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator; and 3. If a voltage reduction is the reason for the use of the emergency generator, a copy of the voltage reduction notification from PJM or other documentation of the voltage reduction. The owner or operator of an emergency generator shall maintain the above records for a period no less than 5 years after the record was made and shall make the records readily available to the Department or the EPA upon request. [N.J.A.C. 7:27-22.16(o)] and. [N.J.A.C. 7:27-19.11]	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	This emergency generator shall not be used: 1. For normal testing and maintenance on days when the Department forecasts air quality anywhere in New Jersey to be "unhealthy for sensitive groups," "unhealthy," or "very unhealthy" as defined in the EPA's Air Quality Index at http://airnow.gov/, as supplemented or amended and incorporated herein by reference, unless required in writing by a Federal or State law or regulation. Procedures for determining the air quality forecasts for New Jersey are available at the Department's air quality permitting web site at http://www.state.nj.us/dep/aqpp/aqforecast; and 2. As a source of energy or power after the primary energy or power source has become operable again. If the primary energy or power source is under the control of the owner or operator of the emergency generator, the owner or operator shall make a reasonable, timely effort to repair the primary energy or power source. [N.J.A.C. 7:27-19.2(d)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	Hours of Operation <= 100 hr/yr. The owner or operator shall comply with the maximum annual operating hours for normal testing and maintenance, entered by the Permittee in the General Operating Permit application. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator shall maintain on site and record the following information: For each time the emergency generator is specifically operated for testing or maintenance: i. The reason for its operation; ii. The date(s) of operation and the start up and shut down time; iii. The total operating time for testing or maintenance based on the generator's hour meter; and iv. The name of the operator. [N.J.A.C. 7:27-19.11]	None.
11	All requests, reports, applications, submittals, and other communications to the Administrator pursuant to Part 60 shall be submitted in duplicate to the Regional Office of US Environmental Protection Agency. Submit information to: Director, Division of Enforcement & Compliance Assistance, US EPA, Region 2, 290 Broadway, New York, NY 10007-1866 (NSPS Subpart A). [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule to EPA Region 2 as required by 40 CFR 60. [40 CFR 60.4(a)]
12	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP (NSPS Subpart A). [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	No owner or operator subject to NSPS standards in Part 60, shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere (NSPS Subpart A). [40 CFR 60.12]	None.	None.	None.
14	The owner or operator shall notify the Administrator of the proposed replacement of components (NSPS Subpart A). [40 CFR 60.15]	None.	None.	Submit notification: At a common schedule agreed upon by the operator and the Administrator. The notification shall include information listed under 40 CFR Part 60.15(d). The notification shall be postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced. [40 CFR 60.15(d)]
15	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19 (NSPS Subpart A). [40 CFR 60.19]	None.	None.	None.
16	Owners and operators of stationary CI internal combustion engines must operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4204 and 60.4205 over the entire life of the engine. [40 CFR 60.4206]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions over the entire life of the engine. [40 CFR 60.4206].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	Beginning October 1, 2010, the CI internal combustion engines with a displacement of less than 30 liters per cylinder subject to NSPS IIII (manufactured after April 1, 2006 or modified or reconstructed after July 11, 2005) that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) that contains the following per gallon standards: 15 ppm (0.0015 percent) maximum sulfur content and either a minimum cetane index of 40 or a maximum aromatic content of 35 volume percent, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted. [40 CFR 60.4207(b)]	Monitored by review of fuel delivery records once per bulk fuel shipment. For each diesel delivery received, the owner or operator shall review written documentation of the delivery to ensure the maximum allowable fuel oil sulfur content and either a minimum cetane index or a maximum aromatic content is not being exceeded. Such written documentation can include, but is not limited to: bill of lading, delivery invoice, certificate of analysis. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by invoices / bills of lading / certificate of analysis once per bulk fuel shipment. The owner or operator shall keep records of fuel showing oil sulfur content and either a minimum cetane index or a maximum aromatic content for each delivery received. All records must be maintained for a minimum of 2 years following the date of such records per 40 CFR 60.7(f). [N.J.A.C. 7:27-22.16(o)]	None.
18	The owner or operator that must comply with the emission standards specified in NSPS IIII must operate and maintain the stationary CI internal combustion engine and control device, except as permitted under 40 CFR 60.4211(g), according to the manufacturer's emission-related written instructions. In addition, owners and operators may only change emission-related settings that are permitted by the manufacturer. The owner or operator must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as applicable (NSPS Subpart IIII). [40 CFR 60.4211(a)]	None.	Other: The owner or operator shall keep the manufacturer's emission-related written instructions. [40 CFR 60.4211].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	Emergency generators may be operated for the purpose of maintenance checks and readiness testing limited to 100 hours per year, provided that those tests are recommended by Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Anyone may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year (NSPS Subpart IIII). [40 CFR 60.4211(f)]	Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine. [40 CFR 60.4209(a)]	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The owner or operator must record the time of operation of the emergency engine and the reason the engine was in operation during that time. Starting with the model year 2011, 2012, or 2013, depending on the maximum engine power as provided in Table 5 in NSPS IIII, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter if the emergency engine does not meet the standards in 40 CFR 60.4204, applicable to non-emergency engines, in the applicable model year. The emergency engine must comply with the labeling requirements in 40 CFR 60.4210(f). [40 CFR 60.4214(b)]	None.
20	A new or reconstructed stationary RICE located at an area HAP source must meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR 60 subpart IIII, for compression ignition engines or 40 CFR 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under 40 CFR 63. (MACT ZZZZ) [40 CFR 63.6590(c)]	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	Other: Comply with all applicable provisions at NSPS IIII. [40 CFR 63].	None.
21	The owner or operator of a 2007 model year and later emergency generator with a displacement of < 10 liters per cylinder and a maximum engine power >= 37 kW (HP >= 50) and no greater than 3,000HP (<= 2,237 kW) must comply with the certification emissions standards in 40 CFR 89.112 and smoke standards in 40 CFR 89.113 for the same model year and maximum engine power as follows: NMHC + NOx <= 4 g/kW-hr, CO <= 3.5 g/kW-hr, PM <= 0.2 g/kW-hr, weighted average emissions as defined in 40 CFR 89.404. (NSPS Subpart IIII). [40 CFR 60.4205(b)]	None.	Other: The owner or operator of a 2007 model year or later engine must keep manufacturer certification showing compliance with the applicable emission standards, for the same model year and maximum engine power. [40 CFR 60.4211].	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
22	The owner or operator of a 2007 model year and later stationary CI internal combustion engine complying with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in 40 CFR 60.4205(b), for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications (NSPS Subpart IIII). [40 CFR 60.4211(c)]	None.	Other: The owner or operator must keep documentation from the manufacturer, for the life of the equipment, that the engine is certified to meet the emission standards as applicable, for the same model year and maximum engine power. If the engine and control device is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, the owner or operator must demonstrate compliance as prescribed at 40 CFR 60.4211(g)(1), (2) or (3) depending on the maximum engine power. [40 CFR 60.4211(c)].	None.
23	TSP <= 0.0066 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	PM-10 (Total) <= 0.0066 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	VOC (Total) <= 0.01 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	NOx (Total) <= 0.13 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	CO <= 0.1141 tons/yr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Specific Requirements

Emission Unit: **U69 (EG-003-2) Emerg. Gen., 250 kW**
Operating Scenario: **OS1 2.69 MMBTU/hr (HHV) Emerg. Gen. (250 kW) Diesel fuel, 100 hrs/yr**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	TSP <= 0.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	PM-10 (Total) <= 0.13 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) <= 0.26 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	NOx (Total) <= 2.54 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	CO <= 2.28 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	SO2: The emission rate is below the reporting threshold of 0.05 lb/hr in Appendix to N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Ocean Cnty Landfill Corp

Facility ID (AIMS): 78931

Street Address: 2498 STATE HWY 70
MANCHESTER, NJ 08759

Mailing Address: 25 1ST AVE - 2ND FLR
25 FIRST AVE
ATLANTIC HIGHLANDS, NJ 07716

State Plane Coordinates:

X-Coordinate:	560,157
Y-Coordinate:	434,646
Units:	New Jersey State Plane 8
Datum:	NAD27
Source Org.:	DEP-GIS
Source Type:	DEP Program Database

County: Ocean

Location Description: 2498 STATE HWY 70

Industry:

Primary SIC:	4953
Secondary SIC:	
NAICS:	562212

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 657-5100 x
Fax: (732) 657-2027 x
Other: (732) 684-3096 x
Type: Mobile
Email: MRyan@cjhesse.com
Mailing Address: 2498 State Highway 70
Manchester, NJ 08759

Contact Type: BOP - Operating Permits

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 657-5100 x
Fax: (732) 657-2027 x
Other: (732) 684-3096 x
Type: Mobile
Email: mryan@cjhesse.com
Mailing Address: 2498 STATE HWY 70
Manchester, NJ 08759

Contact Type: Consultant

Organization: Tetra Tech
Org. Type: Corporation
Name: Scott D. Miller
NJ EIN: 00221960191
Title: Project Manager
Phone: (845) 695-0233 x
Fax: (845) 692-5894 x
Other: ( ) - x
Type:
Email: scott.miller@tetratech.com
Mailing Address: 100 Crystal Run Rd
Suite 101
Middletown, NY 10941

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Emission Statements

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 657-5100 x
Fax: (732) 657-2027 x
Other: (732) 684-3096 x
Type: Mobile
Email: mryan@cjhesse.com
Mailing Address: 2498 STATE HWY 70
Manchester, NJ 08759

Contact Type: General Contact

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 657-5100 x
Fax: (732) 657-2027 x
Other: (732) 684-3096 x
Type: Mobile
Email: mryan@cjhesse.com
Mailing Address: 2498 STATE HWY 70
Manchester, NJ 08759

Contact Type: On-Site Manager

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 657-5100 x
Fax: (732) 657-2027 x
Other: (732) 684-3096 x
Type: Mobile
Email: MRyan@cjhesse.com
Mailing Address: 2498 State Highway 70
Manchester, NJ 08759

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Operator

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 291-8100 x
Fax: (732) 495-6225 x
Other: (732) 684-3096 x
Type: Mobile
Email: mryan@cjhesse.com
Mailing Address: 25 FIRST AVENUE
ATLANTIC HIGHLANDS, NJ 07716

Contact Type: Owner (Current Primary)

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Ocean County Landfill Corportation
NJ EIN: 00221960191
Title: N/A
Phone: (732) 291-8100 x
Fax: (732) 495-6225 x
Other: ( ) - x
Type:
Email: mryan@cjhesse.com
Mailing Address: 25 FIRST AVENUE
ATLANTIC HIGHLANDS, NJ 07716

Contact Type: Responsible Official

Organization: Ocean County Landfill Corporation
Org. Type: Corporation
Name: Martin L. Ryan, P.E.
NJ EIN: 00221960191
Title: V.P. of Engineering
Phone: (732) 657-5100 x
Fax: (732) 657-2027 x
Other: (732) 684-3096 x
Type: Mobile
Email: MRyan@cjhesse.com
Mailing Address: 2498 State Highway 70
Manchester, NJ 08759

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/2024

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS2	1000 ga. fuel tank, diesel	Storage Vessel	Maintenance Building	0.002								
IS3	Small Combustion Heaters (7) <1 mmBtu/hr	Fuel Combustion Equipment (Other)	Maintenance Building	0.003	0.180	0.050	0.430		0.020			
IS4	10000 gal underground #2 fuel tank	Storage Vessel	Leachate Treatment Facility	0.218								
IS5	10000 gal underground diesel tank	Storage Vessel	Maintenance Building	0.010								
IS6	Emergency Generators (4)	Emergency Generator	Maintenance Building/Onsite Generators	0.012	3.090	0.670	0.203		0.001			
IS7	Aerobic leachate treatment tanks (influent concentration <3500 ppb of VOC (Total) and < 100 ppb TXS)	Storage Vessel	Leachate Treatment Facility	3.370								
IS8	1000 ga. fuel storage, #2 oil	Other Equipment	Maintenance Building	0.010								
IS9	Neutralizers for Odor Mitigation	Other Equipment	Facility-Wide									
Total				3.625	3.270	0.720	0.633	0.000	0.021	0.000	0.00000000	0.000

OCEAN CNTY LANDFILL CORP (78931) Date: 11/13/2024

BOP220002

New Jersey Department of Environmental Protection
Equipment Inventory

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	1	Landfill	Landfill	PCP010001		No		
E2	2	anaerobic MBF system tank 1	Storage Vessel	PCP010001		No		
E3	3	LTF Boiler	Boiler			No		
E4	4	leachate equalization lagoon	Storage Vessel	PCP010001		No		
E7		anaerobic MBF system tank 2	Storage Vessel	PCP010001		No		
E8		Leachate Storage Tank 1	Storage Vessel	PCP010001		No		
E9		Leachate Storage Tank 2	Storage Vessel	PCP010001		No		
E10		anaerobic MBF system tank 3	Storage Vessel	PCP010001		No	11/27/2000	
E12		Flare Equipment Pilot	Fuel Combustion Equipment (Other)	PCP010001		No		
E40	MRF/Transfer	MRF-Material Recovery Facility with Transfer	Manufacturing and Materials Handling Equipment	PCP030001 12/11/03		No	6/29/2009	
E67	SCREENER 2A	Screening of soils and other materials	Manufacturing and Materials Handling Equipment	BOP200001	9/1/2015	No		
E68	SCREENER 2B	Screening of soils and other materials	Manufacturing and Materials Handling Equipment		1/5/2018	No		
E69	Generator	2.69 MMBTU/hr (HHV) Emerg. Gen. (250 kW)	Emergency Generator	GOP150002	9/1/2015		9/1/2015	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E1 (Landfill)
Print Date: 9/5/2024

Solid Waste Facility Permit Number:	1518000689E1
Year Opened:	1972
Solid Waste Facility Permit Issuance Date:	1/1/72
Expected Year of Closure:	2026
Actual Year of Closure:	
Total Design Area (acres):	284.0
Total Design Capacity (million megagrams):	20.711
Active Area (acres):	20.0
Capped Area (acres):	255.0
Is the Landfill Lined?	● Yes ○ No
Was the site used for the disposal of Hazardous Waste?	○ Yes ● No
Was there ever co-disposal of Industrial Waste or reason to believe that the Waste Stream into the Landfill contained large Waste or volatile compounds from commercial sources?	○ Yes ● No
Maximum Estimated Landfill Gas Generation Rate during the life of the Landfill (ft^3/yr):	7075
Model used to estimate Landfill Gas Production:	USEPA LandGEM
Is there a Landfill Gas Pre-Treatment System?	● Yes ○ No
Method of Landfill Gas Pre-Treatment:	Pretreatment: H2S Plus by MV Technologies; 2300 scfm (BOP160002)
Design Capacity of Landfill Gas Collection System (acfm):	10,907.0
Overall Collection Efficiency(%):	85.0
Landfill Gas Mover/Blower size (hp):	50.0
Number of Extraction Wells:	86
Extraction Well Diameter (ft):	0.7
Extraction Well Depth (ft):	700.0
Extraction Well Overlap (%):	
Extraction Well Operating Vacuum (in. H20):	10.0
Have you attached Actual Landfill Gas Analysis?	○ Yes ● No
Have you attached a layout (plan view) of the wells and header piping?	○ Yes ● No
Have you attached a waste	

deposition history (provide tons deposited for each operating year)?	○ Yes ● No
Comments:	3,160,960, 000 scf/yr - maximum Estimated Landfill Gas generation during the life of the Landfill. Design Capacity increase reflects capacity for waste placement up to final elevations in Cell 7 Overfill and the Valley Fill.

78931 OCEAN CNTY LANDFILL CORP BOP220002 E1 (Landfill) Print Date: 9/5/2024

Pollutant	Concentration	Units
Amines	1	ppmvd
CO2	45	weight %
Chlorides	60	ppmvd
Greenhouse gases as CO2e	100	weight %
H2S	88.6	ppmvd
Mercaptans	5	ppmvd
Mercury	0.003	ppmvd
Methane	55	weight %
Non-Methane Hydrocarbons	1	ppmvd

78931 OCEAN CNTY LANDFILL CORP BOP220002 E2 (Storage Vessel)
Print Date: 9/5/2024

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Reservoir
Design Capacity:	35,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	48.00
Width (ft):	12.00
Diameter (ft):	
Other Dimension	
Description:	height
Value:	9.00
Units:	feet
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	104.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	0.25
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E2 (Storage Vessel)
Print Date: 9/5/2024

Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	covered concrete tank

78931 OCEAN CNTY LANDFILL CORP BOP220002 E3 (Boiler)
Print Date: 9/5/2024

Make:	Eutectic Cast Iron Boiler
Manufacturer:	De Dietrich
Model:	GT 430 A
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):	2.28
Boiler Type:	Package
Utility Type:	
Output Type:	Steam Only
Steam Output (lb/hr):	
Fuel Firing Method:	
Description (if other):	
Draft Type:	
Heat Exchange Type:	Indirect

Is the boiler using? (check all that apply):

Low NOx Burner:	☐ Type:	
Staged Air Combustion:	☐	
Flue Gas Recirculation (FGR):	☐ Amount (%):	

Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	Replacement for existing boiler.

78931 OCEAN CNTY LANDFILL CORP BOP220002 E4 (Storage Vessel)
Print Date: 9/5/2024

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Reservoir
Design Capacity:	1,800,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	400.00
Width (ft):	110.00
Diameter (ft):	
Other Dimension	
Description:	height
Value:	6.00
Units:	feet
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	104.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	0.25
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E4 (Storage Vessel)
Print Date: 9/5/2024

Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E7 (Storage Vessel)
Print Date: 9/5/2024

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Reservoir
Design Capacity:	35,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	48.00
Width (ft):	12.00
Diameter (ft):	
Other Dimension	
Description:	height
Value:	9.00
Units:	feet
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	104.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Horizontal fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	0.25
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E7 (Storage Vessel)
Print Date: 9/5/2024

Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	covered concrete tank

78931 OCEAN CNTY LANDFILL CORP BOP220002 E8 (Storage Vessel)
Print Date: 9/5/2024

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,000,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	fused ceramic, cobalt blue
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	23.00
Length (ft):	
Width (ft):	
Diameter (ft):	87.00
Other Dimension	
Description:	base below normal groundlevel
Value:	11.00
Units:	feet
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	104.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Domed vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	10.00
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E8 (Storage Vessel)
Print Date: 9/5/2024

Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E9 (Storage Vessel)
Print Date: 9/5/2024

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Tank
Design Capacity:	1,000,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	Yes
Shell Color:	Other
Description (if other):	fused ceramic, cobalt blue
Shell Condition:	
Paint Condition:	Good
Shell Construction:	
Is the Shell Insulated?	No
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Cylindrical
Shell Height (From Ground to Roof Bottom) (ft):	23.00
Length (ft):	
Width (ft):	
Diameter (ft):	87.00
Other Dimension	
Description:	base below normal groundlevel
Value:	11.00
Units:	feet
Fill Method:	Top Pipe
Description (if other):	
Maximum Design Fill Rate:	104.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Domed vertical fixed roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	10.00
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	No
Does the storage vessel	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E9 (Storage Vessel)
Print Date: 9/5/2024

Does the storage vessel have a Conservation Vent?	No
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E10 (Storage Vessel)
Print Date: 9/5/2024

What type of contents is this storage vessel equipped to contain by design?	Liquids Only
Storage Vessel Type:	Reservoir
Design Capacity:	35,000
Units:	gallons
Ground Location:	Above Ground
Is the Shell of the Equipment Exposed to Sunlight?	
Shell Color:	
Description (if other):	
Shell Condition:	
Paint Condition:	
Shell Construction:	
Is the Shell Insulated?	
Type of Insulation:	
Insulation Thickess (in):	
Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:	
Shape of Storage Vessel:	Rectangular
Shell Height (From Ground to Roof Bottom) (ft):	
Length (ft):	48.00
Width (ft):	12.00
Diameter (ft):	
Other Dimension	
Description:	height
Value:	9.00
Units:	feet
Fill Method:	Submerged
Description (if other):	
Maximum Design Fill Rate:	104.00
Units:	gal/min
Does the storage vessel have a roof or an open top?	Roof
Roof Type:	Internal floating roof tank
Roof Height (From Roof Bottom to Roof Top) (ft):	0.25
Roof Construction:	
Primary Seal Type:	
Secondary Seal Type:	
Total Number of Seals:	
Roof Support:	
Does the storage vessel have a Vapor Return Loop?	
Does the storage vessel	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E10 (Storage Vessel)
Print Date: 9/5/2024

Does the storage vessel have a Conservation Vent?	
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	

78931 OCEAN CNTY LANDFILL CORP BOP220002 E40 (Manufacturing and Materials Handling Equipment)
Print Date: 9/5/2024

Make:	Various
Manufacturer:	Various
Model:	na
Type of Manufacturing and Materials Handling Equipment:	loaders
Capacity:	2.00E+03
Units:	other units
Description (if other):	tons per day (MSW/materials)
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	Recovery, reclamation and recycling process equipment for MSW and Type 13 wastes

78931 OCEAN CNTY LANDFILL CORP BOP220002 E67 (Manufacturing and Materials Handling Equipment)
Print Date: 9/5/2024

Make:	Doppstadt
Manufacturer:	Deutz
Model:	SM 720.2 K Trommel
Type of Manufacturing and Materials Handling Equipment:	Screener
Capacity:	6.00E+02
Units:	other units
Description (if other):	tons/hr
Have you attached a diagram showing the location and/or the configuration of this equipment?	Yes
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	Yes
Comments:	Equipped with a 90 kW/122 hp Deutz TCD 3.6 L4 diesel-fired RICE; Air Resource Board certified to NSPS IIII Tier 4 final engine, equipped with diesel oxidation catalyst. 0.85 MMBtu/hr (HHV).

78931 OCEAN CNTY LANDFILL CORP BOP220002 E68 (Manufacturing and Materials Handling Equipment)
Print Date: 9/5/2024

Make:	Doppstadt
Manufacturer:	Deutz
Model:	SM 720.2 K Trommel
Type of Manufacturing and Materials Handling Equipment:	Screener
Capacity:	6.00E+02
Units:	other units
Description (if other):	tons/hour
Have you attached a diagram showing the location and/or the configuration of this equipment?	No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	No
Comments:	Equipped with a 90 kW/122 hp Deutz TCD 3.6 L4 diesel-fired RICE; Air Resource Board certified to NSPS IIII Tier 4 final engine, equipped with diesel oxidation catalyst. 0.85 MMBtu/hr (HHV).

78931 OCEAN CNTY LANDFILL CORP BOP220002 E69 (Emergency Generator)
Print Date: 9/5/2024

Make:	Caterpillar
Manufacturer:	Caterpillar (2015)
Model:	C9 (2015) Model Year
Maximum rated Gross Heat Input (MMBtu/hr-HHV):	2.69
Will the equipment be used in excess of 500 hours per year?	○ Yes ○ No
Have you attached a diagram showing the location and/or the configuration of this equipment?	○ Yes ○ No
Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?	○ Yes ○ No
Comments:	250 kW 398 HP Displacement per cylinder: 8.9 L

OCEAN CNTY LANDFILL CORP (78931) Date: 11/13/2024

BOP220002

New Jersey Department of Environmental Protection
Control Device Inventory

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	1	Main LFG Flare	Flare		No		
CD3	3	LFG Treatment for LTF Boiler	Particulate Filter (Other)		No		
CD10	10	Back-up Flare	Flare	8/15/2001	No		
CD11	11	Portable Flare (Open)	Flare		No		
CD40	DC1	Dust Control	Particulate Filter (Cartridge)		No		
CD41	DC2	Dust Control	Particulate Filter (Cartridge)		No		

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD1 (Flare)
Print Date: 8/27/2024

Make:	IT McGill
Manufacturer:	IT McGill
Model:	
Type:	Enclosed
Minimum Residence Time (sec):	0.90
Maximum Rated Gross Heat Input (MMBtu/hr):	100.00
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	Thermocouple and UV flame detector
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	(●) Yes ( ) No
Automatic Reignition After Loss of Flame?	(●) Yes ( ) No
Minimum Gas Flow Rate (acfm):	500.0
Minimum Operating Temperature (ºF):	1,400.0
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	(●) Yes ( ) No
Is Flare equipped with flame retainer?	( ) Yes (●) No
Is Flare equipped with flame arrestor?	(●) Yes ( ) No
Is Flare equipped with LEL monitor?	( ) Yes (●) No
Flare Stack Diameter (inches):	132.00
Lower Heat Content of source gas (BTU/scf):	350
Lower Heat Content of Supplemental Fuel (BTU/scf):	1000
Destruction and Removal Efficency (%):	96.00
How was Efficency determined?	Manufacturer design
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	None
Have you attached data from recent performance testing?	( ) Yes (●) No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	( ) Yes (●) No

○ Yes ● No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD3 (Particulate Filter (Other))
Print Date: 8/27/2024

Make:	Balston
Manufacturer:	Balston
Model:	ACV-0780-371H
Filter Description:	Stainless steel vessel with 7 filter tubes to remove particles down to 0.3 microns and to dewater.
Total Filter Area (ft^2):	
Maximum Design Temperature Capability (°F):	
Maximum Design Air Flow Rate (acfm):	70.0
Maximum Air Flow Rate to Filter Area Ratio:	
Minimum Operating Pressure Drop (in. H2O):	
Maximum Operating Pressure Drop (in. H2O):	
Maximum Inlet Temperature (°F):	
Maximum Operating Exhuast Gas Flow Rate (acfm):	70.0
Method for Determining When Filter Replacement is Required:	N/A
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	1
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	N/A
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	● Yes ○ No
Comments:	

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD3 (Particulate Filter (Other))
Print Date: 8/27/2024

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD10 (Flare)
Print Date: 8/27/2024

Make:	LFG Specialties, Inc.
Manufacturer:	OWT/LFG Specialties
Model:	EF 1045I12
Type:	Enclosed
Minimum Residence Time (sec):	0.90
Maximum Rated Gross Heat Input (MMBtu/hr):	100.00
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	Thermocouple and UV flame detector
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	(●) Yes ( ) No
Automatic Reignition After Loss of Flame?	(●) Yes ( ) No
Minimum Gas Flow Rate (acfm):	500.0
Minimum Operating Temperature (ºF):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	300.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	(●) Yes ( ) No
Is Flare equipped with flame retainer?	( ) Yes (●) No
Is Flare equipped with flame arrestor?	(●) Yes ( ) No
Is Flare equipped with LEL monitor?	( ) Yes (●) No
Flare Stack Diameter (inches):	120.00
Lower Heat Content of source gas (BTU/scf):	350
Lower Heat Content of Supplemental Fuel (BTU/scf):	1000
Destruction and Removal Efficency (%):	98.00
How was Efficency determined?	Manufacturer design
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	None
Have you attached data from recent performance testing?	( ) Yes (●) No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	( ) Yes (●) No

Yes ● No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD11 (Flare)
Print Date: 8/27/2024

Make:	LFG Specialties, Inc.
Manufacturer:	OWT/LFG Specialties
Model:	PCF618I6
Type:	Open
Minimum Residence Time (sec):	
Maximum Rated Gross Heat Input (MMBtu/hr):	20.00
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	Thermocouple and UV flame detector
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	● Yes ○ No
Automatic Reignition After Loss of Flame?	● Yes ○ No
Minimum Gas Flow Rate (acfm):	60.0
Minimum Operating Temperature (ºF):	
Minimum Heat Content at Burner Tip (Btu/ft³):	1,400.00
Flare Operation Type:	Continuous
Does Flare have smokeless design?	● Yes ○ No
Is Flare equipped with flame retainer?	○ Yes ● No
Is Flare equipped with flame arrestor?	● Yes ○ No
Is Flare equipped with LEL monitor?	○ Yes ● No
Flare Stack Diameter (inches):	6.00
Lower Heat Content of source gas (BTU/scf):	350
Lower Heat Content of Supplemental Fuel (BTU/scf):	1000
Destruction and Removal Efficency (%):	
How was Efficency determined?	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	None
Have you attached data from recent performance testing?	○ Yes ○ No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	○ Yes ● No

○ Yes ● No

Have you attached a diagram showing the location and/or configuration of this control apparatus?

○ Yes ● No

Comments:

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD40 (Particulate Filter (Cartridge))
Print Date: 8/27/2024

Make:	Dust Collector
Manufacturer:	AAF or equivalent
Model:	OptiFlo Pulse -Jet or equivalent
Number of Cartridges:	32
Size of Cartridges (ft^2):	275.00
Total Cartridge Area (ft^2):	8,800.00
Maximum Design Temperature Capability (°F):	68.0
Maximum Design Air Flow Rate (acfm):	18,000.0
Maximum Air Flow Rate to Filter Area Ratio:	2.05
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	10.00
Maximum Inlet Temperature (°F):	275.0
Maximum Operating Exhuast Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	● Yes ○ No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	● Yes ○ No
Comments:	Identical to CD41. Per BOP080002 application.

78931 OCEAN CNTY LANDFILL CORP BOP220002 CD41 (Particulate Filter (Cartridge))
Print Date: 8/27/2024

Make:	Dust Collector
Manufacturer:	AAF or equivalent
Model:	OptiFlo Pulse -Jet or equivalent
Number of Cartridges:	32
Size of Cartridges (ft^2):	275.00
Total Cartridge Area (ft^2):	8,800.00
Maximum Design Temperature Capability (°F):	68.0
Maximum Design Air Flow Rate (acfm):	18,000.0
Maximum Air Flow Rate to Filter Area Ratio:	2.05
Minimum Operating Pressure Drop (in. H2O):	2.00
Maximum Operating Pressure Drop (in. H2O):	10.00
Maximum Inlet Temperature (°F):	275.0
Maximum Operating Exhuast Gas Flow Rate (acfm):	
Method for Determining When Cartridge Replacement is Required:	
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	
Have you attached a Particle Size Distribution Analysis?	○ Yes ● No
Have you attached data from recent performance testing?	○ Yes ● No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	● Yes ○ No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	● Yes ○ No
Comments:	Identical to CD41

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/2024

New Jersey Department of Environmental Protection
Emission Points Inventory

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	1	Main Flare	Round	132	40	510	1,600.0	1,400.0	2,000.0	160,000.0	3,000.0	190,000.0	Up	
PT3	3	Boiler	Round	14	13	300	363.0	252.0	473.0	0.0	175.0	585.0	Up	
PT10	10	Backup Flare	Round	120	45	500	1,600.0	1,500.0	2,000.0	150,000.0	0.0	190,000.0	Up	
PT11	11	Portable Flare	Round	6	20	400	1,500.0	1,400.0	2,000.0	400.0	0.0	600.0	Up	
PT40	Collector 1	Stack for CD40	Rectangle	34	10	700	70.0	20.0	130.0	18,000.0	0.0	18,000.0	Up	
PT41	Collector 2	Stack for CD41	Rectangle	34	10	700	70.0	20.0	130.0	18,000.0	0.0	18,000.0	Up	
PT67	SCREENER 2A	Screener 2A Stack	Round	3	8	500	752.0	752.0	752.0	588.7	588.7	588.7	Up	
PT68	SCREENER 2B	Screener 2B Stack	Round	3	8	500	752.0	752.0	752.0	588.7	588.7	588.7	Up	
PT69	OCLC	Emerg. Gen. E69 Stack	Round	5	8	500			852.0			2,246.0	Up	

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/2024

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 3 Boiler 2.28 MMBtu/hr boiler firing treated LFG and No. 2 Fuel oil

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1		Combustion of treated LFG to heat leachate treatment process	Normal - Steady State	E3		PT3		0.0	8,760.0		175.0	585.0	252.0	473.0
OS2		Combustion of fuel oil #2 to heat leachate treatment process	Normal - Steady State	E3		PT3		0.0	8,760.0		175.0	585.0	252.0	473.0

U 4 MRF Material recovery process and transfer

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	MRF	Materials Recovery Facility with Transfer	Normal - Steady State	E40	CD40 (P) CD41 (P)	PT40 PT41	5-01-004-06	2,000.0	8,760.0		0.0	36,000.0	20.0	100.0

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/2024

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 64 trans/proc Landfill, Waste transfer and processing equipped with H2S Plus control pretreatment system

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	trans/proces	Landfill Waste Transfer and Processing equipped with H2S Plus control pretreatment system	Normal - Steady State	E1	CD1 (P) CD10 (P) CD11 (P) CD3 (P)	PT1 PT10 PT11	5-01-004-06 5-01-002-01	8,760.0	8,760.0	A	0.0	7,240.0	0.0	100.0
OS2		Anaerobic Leachate Treatment 1	Normal - Steady State	E2	CD10 (P)	PT1 PT10	5-01-002-01	8,000.0	8,760.0	A	15.0	90.0	1,500.0	2,000.0
OS3		leachate equalization lagoon	Normal - Steady State	E4	CD10 (P)	PT1 PT10	5-01-002-01	8,000.0	8,760.0	A	15.0	90.0	1,500.0	2,000.0
OS4		Anaerobic Leachate Treatment 2	Normal - Steady State	E7	CD10 (P)	PT1 PT10	5-01-002-01	8,000.0	8,760.0	A	15.0	90.0	1,500.0	2,000.0
OS5		leachate storage (tank 1)	Normal - Steady State	E8	CD10 (P)	PT1 PT10	5-01-002-01	8,000.0	8,760.0	A	15.0	90.0	1,500.0	2,000.0
OS6		leachate storage (tank 2)	Normal - Steady State	E9	CD10 (P)	PT1 PT10	5-01-002-01	8,000.0	8,760.0	A	15.0	90.0	1,500.0	2,000.0
OS7		Anaerobic Leachate Treatment 3	Normal - Steady State	E10	CD10 (P)	PT1 PT10	5-01-002-01	8,000.0	8,760.0	A	15.0	90.0	1,500.0	2,000.0

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/2024

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 67 SCREENER 2A Doppstadt SM 720.2 K Trommel with Deutz Diesel engine

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	SCREENER 2A	RICE powered material Screener 2A	Normal - Steady State	E67		PT67	A26-20-030-000 5-01-004-02	0.0	3,120.0	A	588.7	588.7	752.0	752.0

U 68 SCREENER 2B Doppstadt SM 720.2 K Trommel with Deutz Diesel engine

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	SCREENER 2B	RICE powered material Screener 2B	Normal - Steady State	E68		PT68		0.0	3,120.0	A	588.7	588.7	752.0	750.0

OCEAN CNTY LANDFILL CORP (78931)
BOP220002

Date: 11/13/2024

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 69 Generator (EG-003-2) Emerg. Gen., 250 kW

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours Min.	Annual Oper. Hours Max.	VOC Range	Flow (acfm) Min.	Flow (acfm) Max.	Temp. (deg F) Min.	Temp. (deg F) Max.
OS1	Generator	2.69 MMBTU/hr (HHV) Emerg. Gen. (250 kW) Diesel fuel, 100 hrs/yr	Normal - Steady State	E69		PT69								

Appendix 1

Ocean County Landfill Corporation

PI # 78931

Odor Mitigation Plan

Ocean County Landfill (OCLF) has an odor-mitigation plan, currently composed of 3 odor-neutralizing systems (OCLF notes that the figures below are approximate and as site conditions change or as warranted, OCLF will modify the odor plan):

1. East system – system hose length: 1,250 feet; supply hose length is 300 feet; 50 stanchions with spray nozzles
2. West system – system hose length: 1375 feet, supply hose length is 150 feet; 55 stanchions with spray nozzles
3. North system – system hose length: 650 feet; supply hose length: 25 feet; 25 stanchions with spray nozzles.

In addition, OCLF uses 3 portable trailers – each trailer has 50 feet of mister hose with 35 spray nozzles.

OCLF currently uses the following odor-neutralizing agents (manufacturer)[1]:

- ChemStation Product 1230 (ChemStation)
- ChemStation Product 8850 (ChemStation)
- CupriDyne® Clean (Odor No More, Inc)

Chemstation Product 1230: according to the Safety Data Sheet (SDS), the product is biodegradable, and its ingredients are not classified as hazardous (i.e., no VOCs or HAPs).

Chemstation Product 8850: according to the SDS, the product is biodegradable, and its ingredients are not carcinogenic.

CupriDyne® Clean: according to the SDS, the product's ingredients are not classified as hazardous (i.e., no VOCs or HAP).

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[1]If warranted, OCLF may use equivalent products

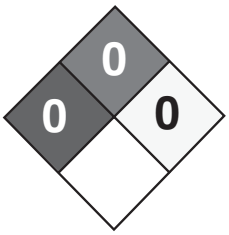
OCLF personnel apply at least 6 inches of cover soil or other alternate daily cover including tarps to exposed areas of active landfill cells on or about 17:00 to 07:00, daily. In addition, prior to final capping, the facility employs interim gas collection and installs capping in an area within an active cell when said area reaches design grade. Also, in accordance with the conditions of its Air Pollution Control Operating Permit, OCLF measures H2S concentrations quarterly at its property line using a Jerome J605 meter. OCLF's odor mitigation plan includes the use of odor neutralizers (weather permitting) to mitigate detectable odor for the landfill operation and when conducting waste excavation activities. OCLF applies these products by misting and spraying. The ChemStation 1230 product is applied by misting. The ChemStation 8850 and CupriDyne® Clean products are blended in a water truck and sprayed on the landfill surface.

OCLF personnel follow manufacturers' instructions regarding product storage and handling, worker safety, use, dilution, and application. Fugitive releases are diluted by air and should not be of concern as most listed ingredients with any hazard precaution (e.g., skin irritant(s), etc.) are minimal. Consistent with human health hazard warnings, workers execute appropriate safety measures to minimize exposure to skin, eyes, or accidental inhalation and ingestion.

The following pages are the Safety Data Sheets (SDS) for said neutralizer products and a letter from ChemStation.

Odor-No-More®

www.OdorNoMore.com



Health	0
Fire	0
Reactivity	0
Personal Protection	B

Safety Data Sheet
Iodine Powder, 0.00005 - 0.00025N SDS

Section 1: Chemical Product and Company Identification

Product Name: CupriDyne® Clean
Powder Iodine Chemistry

CAS#: See Section 3

RTECS: Not applicable.

TSCA: TSCA 8(b) inventory: Potassium Iodide
Copper Sulfate, Sulfamic Acid

CI#: Not applicable.

Synonym: Free Iodine Powsr

Chemical Name: Not applicable.

Chemical Formula: Not applicable.

Contact Information:

Odor No More, Inc.
14921 Chestnut St.
Westminster, CA 92683

US Sales: **1-949-643-9540**
International Sales: **1-949-643-9540**

Order Online: info@odornomore.com

24HR Emergency Telephone, call:
1-949-295-3622
For non-emergency assistance, call: 1-949-643-9540

Section 2: Hazards Identification

Potential Acute Health Effects: DIlute
Non-hazardous in case of skin contact, of eye contact, of ingestion, of inhalation.

Potential Chronic Health Effects: Dilute
Non-hazardous in case of skin contact, of eye contact, of ingestion, of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not Avaiable

Section 3: Composition and Information on Ingredients

Composition:

Ingredient	CAS#	Percent	Hazardous
Copper Sulfate	7758-99-8	<31%	No
Potassium Iodide	7681-11-0	<47%	No
Inert Proprietary Ingredients		<23%	No

Toxicological Data on Ingredients: Iodine: ORAL (LD50): Acute: 14000 mg/kg [Rat]

Section 4: First Aid Measures

Eye Contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.

Skin Contact:
After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact: Not available.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:
Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:
Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:
Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Do not breathe excess gas/fumes/ vapour/spray. Avoid contact with skin. Wear suitable protective clothing. If you feel unwell, seek medical attention and show the label when possible.

Storage:
No specific storage is required. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal Protection: Safety glasses. Lab coat. Gloves.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
Iodine CEIL: 0.1 (ppm) from ACGIH (TLV) CEIL: 1 (mg/m3) from OSHA Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: White and blue powders.

Odor: Not available.

Taste: Not available.

Molecular Weight: Not applicable.

Color: White and Blue

pH (1% soln/water): Not Applicable

Boiling Point: The lowest known value is 100°C (212°F) (Water).

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Weighted average: Not Applicable

Vapor Pressure: The highest known value is 17.535 mm of Hg (@ 20°C) (Water).

Vapor Density: The highest known value is 0.62 (Air = 1) (Water).

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water, methanol, diethyl ether, acetone.

Solubility:
Easily soluble in cold water, hot water. Soluble in diethyl ether. Partially soluble in methanol, acetone.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Slightly reactive to reactive with oxidizing agents, combustible materials, organic materials, metals, acids.

Corrosivity:
Slightly corrosive to corrosive in presence of aluminum, of zinc, of copper. Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not Available

Special Remarks on Corrosivity: Not available.

Polymerization: No.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
DEVELOPMENTAL TOXICITY: Not Available

Other Toxic Effects on Humans: Non-hazardous in case of skin contact, of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not Available

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous degradation products are not likely.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:
Pennsylvania RTK: Iodine;
Massachusetts RTK: Iodine, TSCA 8(b) inventory: Iodine; Water

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada):

DSCL (EEC):
This product is not classified according to the EU regulations.

HMIS (U.S.A.): No SIgnificant Health Risk.

Health Hazard: 0

Fire Hazard: 0

Reactivity: 0

Personal Protection: b

National Fire Protection Association (U.S.A.):

Health: 0

Flammability: 0

Reactivity: 0

Specific hazard: 0

Protective Equipment:
Gloves. Lab coat. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 05/28/2015 4:00 AM

Disclaimer:

Odor No More, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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ChemStation

April 11, 2024

Ocean County Landfill
2489 Rte 70
Manchester, NJ 08759
Attn: John Fink V/P Operations

Dear Mr. Fink,

Included with this letter is the SDS for ChemStation Product 1230. In 1998, ChemStation was given permission to use product 1230 (formerly 6817) for odor control purposes in the State of New Jersey.

Approximately 20 years ago, ChemStation retired the product name “6817” and replaced it with “1230.” Product 6817 and 1230 are in fact identical in chemical makeup. Product 1230 does not contain VOCs or HAPs.

Regards,

Andy Homan
President
ChemStation Philadelphia Ltd.

1801 Horseshoe Pike ♦ Honey Brook, PA 19344 ♦ (610) 942-9400 ♦ Fax (610) 942-7044

Safety Data Sheet (SDS)
1230

SDS Revision Date: 04/09/2024

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity	1230
Alternate Names	1230

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Contact ChemStation representative.
Application Method	Contact ChemStation representative.

1.3. Details of the supplier of the safety data sheet

Company Name	ChemStation Philadelphia 415 Boot Rd., STE B Downingtown, PA 19335

Emergency	
CHEMTREC (USA)	(800) 424-9300
Customer Service: ChemStation Philadelphia	(484) 696-1431

2. Hazard identification of the product

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

No applicable GHS categories.

[Prevention]:
No GHS prevention statements
[Response]:
No GHS response statements
[Storage]:
No GHS storage statements
[Disposal]:
No GHS disposal statements

3. Composition/information on ingredients

There are no ingredients in this product which are classified as hazardous.

Section 4. First-aid measures

4.1. Description of first aid measures

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview	No specific symptom data available. Check section 2.2 (GHS Label Elements) for further details.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. 0

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No data available.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

8.1. Control Parameters - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

There are no ingredients in this product which are classified as hazardous.

8.2. Exposure controls

Respiratory	If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.
Eyes	Protective safety glasses recommended.
Skin	Keep skin contact to a minimum.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

Section 9. Physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Fresh
Odor threshold	Not Measured
pH	4.8 - 5.4
Melting point / freezing point	Not Measured
Initial boiling point and boiling range	212 deg F
Flash Point	>200 degrees F PMCC (non-flammable)

Evaporation rate (Ether = 1)	0.33
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** Not Measured **Upper Explosive Limit:** Not Measured
Vapor pressure (Pa)	Not Determined
Vapor Density	Not Determined
Relative Density	1.001 - 1.011
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Foaming	Moderate

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Accute Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

There are no ingredients in this product which are classified as hazardous.

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable

STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Section 12. Ecological information

12.1. Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

There are no ingredients in this product which are classified as hazardous.

12.2. Persistence and degradability

This product is fully biodegradable.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

14.1. UN number	Not Applicable
14.2. UN proper shipping name	Compound, Cleaning,N.O.I., Liquid
14.3. Transport hazard class(es)	Not Applicable
14.4. Packing group	Not Applicable

Section 15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.

EPCRA 311/312 Chemicals and RQs:
(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:
(No Product Ingredients Listed)

Proposition 65 - Carcinogens (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):
(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :
(No Product Ingredients Listed)

Penn RTK Substances (>1%) :
(No Product Ingredients Listed)

Section 16. Other information

Issue Date	06/11/2015
Revision History	06/11/2015 09/10/2015 11/20/2015 04/20/2017 02/24/2018 09/15/2018 04/27/2022 09/09/2022 11/02/2022 12/07/2022 03/29/2023

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The full text of the phrases appearing in section 3 is:

Not Applicable

Not Applicable

End of Document

Safety Data Sheet (SDS)
8850

SDS Revision Date: 04/10/2024

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Identity	8850
Alternate Names	8850

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use	Contact ChemStation representative.
Application Method	Contact ChemStation representative.

1.3. Details of the supplier of the safety data sheet

Company Name	ChemStation Philadelphia 415 Boot Rd., STE B Downingtown, PA 19335

Emergency	
CHEMTREC (USA)	(800) 424-9300
Customer Service: ChemStation Philadelphia	(484) 696-1431

2. Hazard identification of the product

2.1. Classification of the substance or mixture

Flam. Liq. 3;H226	Flammable liquid and vapor.
Skin Corr. 1B;H314	Causes severe skin burns and eye damage.

2.2. Label elements

Danger

H226 Flammable liquid and vapor.
H314 Causes severe skin burns and eye damage.

[Prevention]:
P210 Keep away from heat, sparks, open flames, and other ignition sources - No smoking.
P241 Use explosion-proof electrical, ventilating, light, equipment.
P260 Do not breathe dust, fume, mist, vapors or spray.

P264 Wash thoroughly after handling.

P280 Wear protective gloves, eye protection, face protection.

[Response]:

P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+361+353 IF ON SKIN (or hair): Remove, take off immediately all contaminated clothing. Rinse skin with water, shower.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P310 Immediately call a POISON CENTER, doctor or physician.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

3. Composition/information on ingredients

Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Alkylbenzyldimethylammonium chloride **CAS Number: 0068391-01-5**	**1.0 - 10**	**Acute Tox. 4; H302** **Skin Corr. 1B; H314** **Aquatic Acute 1; H400**	**[1]**
n-alkyl dimethyl ethyl benzyl ammonium chloride **CAS Number: 0068956-79-6**	**1.0 - 10**	**Flam. Liq. 3; H226**	**[1]**
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy- **CAS Number: 0034398-01-1**	**1.0 - 10**	**Acute Tox. 4; H302** **Eye Dam. 1; H318**	**[1]**

[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

Section 4. First-aid measures

4.1. Description of first aid measures

General In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

Ingestion If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Overview No specific symptom data available.
Check section 2.2 (GHS Label Elements) for further details.

Section 5. Fire-fighting measures

5.1. Extinguishing media

Recommended extinguishing media; alcohol resistant foam, CO_2, powder, water spray.

Unsuitable extinguishing media: Do not use; water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: No hazardous decomposition data available.

Keep away from heat, sparks, open flames, and other ignition sources - No smoking.

Use explosion-proof electrical, ventilating, light, equipment.

Do not breathe dust, fume, mist, vapors or spray.

5.3. Advice for fire-fighters

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water ways.

ERG Guide No. 128

Section 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

Section 7. Handling and storage

7.1. Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials: No data available.

Check section 2.2 (GHS Label Elements) for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

Section 8. Exposure controls / personal protection

8.1. Control Parameters - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Exposure

CAS No.	Ingredient	Source	Value
0034398-01-1	Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0068391-01-5	Alkylbenzyldimethylammonium chloride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit
0068956-79-6	n-alkyl dimethyl ethyl benzyl ammonium chloride	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Carcinogen Data

CAS No.	Ingredient	Source	Value
0034398-01-1	Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0068391-01-5	Alkylbenzyldimethylammonium chloride	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0068956-79-6	n-alkyl dimethyl ethyl benzyl ammonium chloride	OSHA	Regulated Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

Eyes Protective safety glasses recommended.

Skin Keep skin contact to a minimum. Wear PVC or rubber gloves to keep skin contact to a minimum.
Refer to the manufacturer's recommendations regarding the suitability of any gloves used.

Engineering Controls Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

Other Work Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

Check section 2.2 (GHS Label Elements) for further details. - [Prevention]:

Section 9. Physical and chemical properties

Appearance	Yellow thin liquid
Odor	Lemon
Odor threshold	Not Measured
pH	5.7 - 6.3
Melting point / freezing point	Not Measured

Initial boiling point and boiling range	212 deg F
Flash Point	125 degrees F PMCC (combustible)
Evaporation rate (Ether = 1)	0.33
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	**Lower Explosive Limit:** Not Measured **Upper Explosive Limit:** Not Measured
Vapor pressure (Pa)	Not Determined
Vapor Density	Not Determined
Relative Density	0.976 - 0.986
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	Not Measured
Foaming	High

9.2. Other information

No other relevant information.

Section 10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

No hazardous decomposition data available.

Section 11. Toxicological information

Accute Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Alkylbenzyldimethylammonium chloride - (68391-01-5)	850.00, Rat - Category: 4	2,300.00, Rat - Category: 5	No data available	No data available	No data available
n-alkyl dimethyl ethyl benzyl ammonium chloride - (68956-79-6)	No data available	No data available	No data available	No data available	No data available
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy- - (34398-01-1)	No data available	No data available	No data available	No data available	No data available

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	1B	Causes severe skin burns and eye damage.

Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Section 12. Ecological information

12.1. Toxicity - Formula information for this product is being withheld as a trade secret under the provisions of 29 CFR 1910.1200(i).

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Alkylbenzyldimethylammonium chloride - (68391-01-5)	0.52, Fish (Piscis)	Not Available	0.80 (96 hr), Algae
n-alkyl dimethyl ethyl benzyl ammonium chloride - (68956-79-6)	Not Available	Not Available	Not Available
Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy- - (34398-01-1)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

This product is fully biodegradable.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

Section 13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

Section 14. Transport information

14.1. UN number	UN1993
14.2. UN proper shipping name	Flammable liquids, n.o.s. (fragrance oil)
14.3. Transport hazard class(es)	3
14.4. Packing group	III

Section 15. Regulatory information

Regulatory Overview	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
Toxic Substance Control Act (TSCA)	All components of this material are either listed or exempt from listing on the TSCA Inventory.

EPCRA 311/312 Chemicals and RQs:
(No Product Ingredients Listed)

EPCRA 302 Extremely Hazardous :
(No Product Ingredients Listed)

EPCRA 313 Toxic Chemicals:
(No Product Ingredients Listed)

Proposition 65 - Carcinogens (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Developmental Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Female Repro Toxins (>0.0%):
(No Product Ingredients Listed)

Proposition 65 - Male Repro Toxins (>0.0%):
(No Product Ingredients Listed)

N.J. RTK Substances (>1%) :
(No Product Ingredients Listed)

Penn RTK Substances (>1%) :
(No Product Ingredients Listed)

Section 16. Other information

Issue Date	04/07/2015
Revision History	04/07/2015 06/10/2015 06/30/2015 10/12/2015 03/08/2016 10/13/2022 12/03/2022 03/25/2023 04/28/2023 04/10/2024

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

End of Document

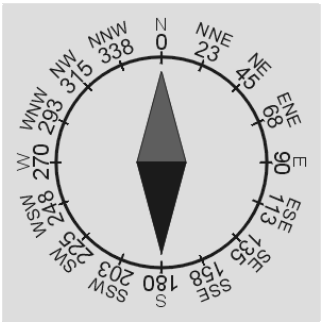
NOTE: RK Form

Permittee may suggest and get OK from CRO if they would like to have more user friendly form. The Department shall approve changes in 10 working days of Receipt.

ODOR INVESTIGATION FIELD DATA

Time:_____ AM/PM

Date:_____

Weather Conditions:		Wind Direction:	Wind Speed:
Weather:	Precipitation:	(Blowing From)	ڤ Calm (CM)
ڤ Sunny (SY)	ڤ None (NO)		ڤ Light Breeze (LB) (1-5 mph)
ڤ Partly Cloudy (PC)	ڤ Fog (FG)		ڤ Moderate Wind(MW) (5-15 mph)
ڤ Mostly Cloudy (MC)	ڤ Rain (RN)		ڤ Strong Winds (SW) (15 or higher mph)
ڤ Overcast (OC)	ڤ Sleet (ST)		
ڤ Hazy (HZ)	ڤ Snow (SW)		
ڤ Night (NT)			

Temperature :_____ F/ C Relative Humidity _____ %

Odor Descriptions:			
ڤ Acrid/Pungent	ڤ Ammonia	ڤ Burnt Rubber Like	ڤ Chlorine
ڤ Earthy	ڤ Burnt	ڤ Chemical	ڤ Sewage Like
ڤ Putrid/Rotten	ڤ Fecal	ڤ Sour/Vinegar	ڤ _____
ڤ Raw Meat/ Bloody	ڤ Fishy	ڤ Sulfide Like	ڤ_____
ڤ Rotten Eggs	ڤ Manure/ Farmyard	ڤ Vegetable	ڤ_____
ڤ Diesel Exhaust	ڤ Moldy/Musty	ڤ Smoky	ڤ_____
	ڤ Oily/Fatty		

Observations During 360

Time	Location	Scale (1-5)	Wind Direction/Wind Speed	**Comments:**

Signature:_____ Date:_____				