



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02

Trenton, NJ 08625-0420

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

CATHERINE R. McCABE

Commissioner

Air Pollution Control Operating Permit Significant Modification

Permit Activity Number: BOP170001

Program Interest Number: 17901

Mailing Address		Plant Location	
Jack Whitman Managing Member Cinnamon Bay, LLC PO Box 520 Milltown, NJ 08850	Jack Whitman President Edgeboro Disposal, Inc. PO Box 6478 East Brunswick, NJ 08816	Cinnamon Bay, LLC Brick Plant Rd East Brunswick Middlesex County	Edgeboro Disposal, Inc. 39 Edgeboro Road East Brunswick Middlesex County

Initial Operating Permit Approval Date: January 24, 2002

Operating Permit Approval Date: DRAFT

Operating Permit Expiration Date: January 23, 2017 (operating under permit 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: <http://www.nj.gov/dep/aqpp>. 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 <http://www.nj.gov/dep/aqpp>.

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://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Christopher Schwalje at (609) 292-1192.

Approved by:

Kevin Greener

Enclosure

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

Facility Name: CINNAMON BAY LLC & EDGEBORO DISPOSAL INC
Program Interest Number: 17901
Permit Activity Number: BOP170001

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Section A

Facility Name: CINNAMON BAY LLC & EDGEBORO DISPOSAL INC

Program Interest Number: 17901

Permit Activity Number: BOP170001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ 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} ² (total)	Pb	HAPs* (total)	CO _{2e} ³
Emission Units Summary	0.09	1.12	0.24	0.07	0.08	0.08	N/A	N/A	N/A	
Batch Process Summary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Group Summary	62.15	32.32	212.34	6.96	10.95	10.95	10.95	N/A	31.93	
Total Emissions	62.24	33.44	212.58	7.03	11.03	11.03	10.95	N/A	31.93	73,412

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ 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} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	0.27	0.17	0.04	0.01	0.26	0.26	N/A	N/A	N/A
Non-Source Fugitive Emissions ⁴	0.55	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

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).

TSP: Total Suspended Particulates

Other: Any other air contaminant regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO_{2e}: Carbon Dioxide equivalent

*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 PM_{2.5} has been included in air permitting rules as of December 9, 2017. Consequently, PM_{2.5} totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

³ Total CO_{2e} emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

⁴ Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: CINNAMON BAY LLC & EDGEBORO DISPOSAL INC

Program Interest Number: 17901

Permit Activity Number: BOP170001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ⁵:

HAP	TPY
Formaldehyde	31.93

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

Other Air Contaminant	TPY
N/A	

⁵ 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: CINNAMON BAY LLC & EDGEBORO DISPOSAL INC

Program Interest Number: 17901

Permit Activity Number: BOP170001

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. The Department and its authorized representatives shall have the right to enter and inspect any facility 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]
11. 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]
12. 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)]
13.
 - 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)]
14. 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 contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. 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)]
15. 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]

16. 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)]
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. 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)]
19. 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.
20. 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.
21. 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)].

22. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (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: <http://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.
23. Except as allowed in Technical Manual 1005, or otherwise allowed by the Department in this permit or in written guidelines/ procedures issued or approved by the Department, process monitors required by the Compliance Plan included in this permit must be operated at all times when the associated process equipment is operating. The permittee must keep a service log to document any outage.
24. 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.
25. 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.
26. 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]
27. 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).

Section C

Facility Name: CINNAMON BAY LLC & EDGEBORO DISPOSAL INC

Program Interest Number: 17901

Permit Activity Number: BOP170001

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:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
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Section D

Facility Name: CINNAMON BAY LLC & EDGEBORO DISPOSAL INC
Program Interest Number: 17901
Permit Activity Number: BOP170001

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

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**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 110001

Description of Modifications: The following changes were made to the operating permit during this modification process:

1. Removed the oxidation catalysts (old CD1-6) installed on the six landfill gas engines in Emission Unit U1;
2. Reduced the total operating hour basis from 52,560 hr/yr to 26,280 hr/yr for the six landfill gas engines and two enclosed flares in Group GR1;
3. Removed all requirements and compliance schedules in U1 OS1-6 associated with the Administrative Consent Order NEA130001; and
4. Added PM-2.5 emissions for the six landfill gas engines and two enclosed flares in GR1 in accordance with NJDEP policy.

The changes made during this permit activity result in an increase of allowable annual emissions of VOC by 36.12 tons, CO by 90.86 tons, PM-2.5 by 10.95 tons, and Formaldehyde by 16.5 tons and a decrease of allowable annual emissions of NOx by 40.46 tons, SO2 by 7.25 tons, and TSP & PM-10 by 3.37 tons each.

BOP170001

**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.

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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.

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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]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>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)]</p>	None.	<p>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)].</p>	<p>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.</p> <p>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.</p> <p>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]</p>
14	<p>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]</p>	None.	None.	<p>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)]</p>
15	<p>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]</p>	<p>Other: Comply with 40 CFR 68. [40 CFR 68].</p>	<p>Other: Comply with 40 CFR 68. [40 CFR 68].</p>	<p>Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]</p>

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Subject Item: FG1 Equipment Cleaning Operations

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Solvent must contain less than 5% by weight of any combination of methylene chloride, perchloroethylene, 1,1,1-trichloroethane, carbon tetrachloride and chloroform. [40 CFR 63.460]	Other: At the time of cleaning, confirm by MSDS or bill of lading.[N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the MSDS or bill of lading.[N.J.A.C. 7:27-22.16(o)].	None.

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Subject Item: GR1 Annual Emissions for 6 Cinnamon Bay Engines and 4 EDI Flares

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Other Gaseous Fuel Usage <= 424,422 MMBTU/yr (HHV) of landfill gas for the 6 Cinnamon Bay engines (E1 - E6) and the 2 EDI enclosed flares (CD7 & CD8), combined. [N.J.A.C. 7:27-22.16(a)]	Other Gaseous Fuel Usage: Monitored by calculations annually, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation: Landfill Gas Usage (MMBTU/yr) = (MMBTU/yr of landfill gas consumed by engines during the previous 12 months) + (MMBTU/yr of landfill gas burned in enclosed flares during the previous 12 months). [N.J.A.C. 7:27-22.16(o)]	Other Gaseous Fuel Usage: 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.
2	Hours of Operation <= 26,280 hr/yr for the 6 Cinnamon Bay engines (E1 - E6) and the 2 EDI enclosed flares (CD7 & CD8), combined. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by calculations annually, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation: Hours of Operation (hr/yr) = (hr/yr of engine use during the previous 12 months) + (hr/yr of enclosed flares during the previous 12 months). [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 each month during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>VOC (Total) <= 62.15 tons/yr (including formaldehyde). Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]</p>	<p>VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{VOC (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the average of the three runs for that flare based on the most recent stack test approved by NJDEP. [N.J.A.C. 7:27-22.16(o)]</p>	<p>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)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>VOC (Total) <= 30.22 tons/yr (not including formaldehyde). Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares to demonstrate facility is not triggering the provisions of N.J.A.C. 7:27-18. [N.J.A.C. 7:27-22.16(a)]</p>	<p>VOC (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{VOC (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the average of the three runs for that flare based on the most recent stack test approved by NJDEP. [N.J.A.C. 7:27-22.16(o)]</p>	<p>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)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	<p>NOx (Total) <= 32.32 tons/yr. Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]</p>	<p>NOx (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{NOx (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the average of the three runs for that flare based on the most recent stack test approved by NJDEP. [N.J.A.C. 7:27-22.16(o)]</p>	<p>NOx (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)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>CO <= 212.34 tons/yr. Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]</p>	<p>CO: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{CO (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the average of the three runs for that flare based on the most recent stack test approved by NJDEP. [N.J.A.C. 7:27-22.16(o)]</p>	<p>CO: 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)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	<p>SO2 <= 6.96 tons/yr. Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]</p>	<p>SO2: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{SO2 (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the values listed in the U2 OS1-2 compliance plan. [N.J.A.C. 7:27-22.16(o)]</p>	<p>SO2: 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)]</p>	<p>None.</p>
8	<p>TSP <= 10.95 tons/yr. Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]</p>	<p>TSP: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{TSP (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the values listed in the U2 OS1-2 compliance plan. [N.J.A.C. 7:27-22.16(o)]</p>	<p>TSP: 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)]</p>	<p>None.</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	PM-10 (Total) <= 10.95 tons/yr. Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]	<p>PM-10 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{PM-10 (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the values listed in the U2 OS1-2 compliance plan. [N.J.A.C. 7:27-22.16(o)]</p>	PM-10 (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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	PM-2.5 (Total) <= 10.95 tons/yr. Annual emission limit for the six Cinnamon Bay engines and the two EDI enclosed flares based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]	<p>PM-2.5 (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{PM-2.5 (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr}) + (\text{Enclosed Flare 1 lb/hr} \times \text{Enclosed Flare 1 hr/yr}) + (\text{Enclosed Flare 2 lb/hr} \times \text{Enclosed Flare 2 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. Enclosed Flare lb/hr will be the values listed in the U2 OS1-2 compliance plan. [N.J.A.C. 7:27-22.16(o)]</p>	PM-2.5 (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.
11	HAPs (Total) <= 31.93 tons/yr. Annual emission limit for the six Cinnamon Bay engines, based on Formaldehyde, and the two EDI enclosed flares. [N.J.A.C. 7:27-22.16(a)]	HAPs (Total): Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27-22.16(o)]	HAPs (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.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	Formaldehyde <= 31.93 tons/yr. Annual emission limit for the six Cinnamon Bay engines based on total hours of operation (26,280 hr/yr). [N.J.A.C. 7:27-22.16(a)]	<p>Formaldehyde: Monitored by calculations each month during operation, based on a consecutive 12 month period (rolling 1 month basis). Compliance shall be demonstrated through the following calculation:</p> $\text{Formaldehyde (tons/yr)} = ((\text{Engine 1 lb/hr} \times \text{Engine 1 hr/yr}) + (\text{Engine 2 lb/hr} \times \text{Engine 2 hr/yr}) + (\text{Engine 3 lb/hr} \times \text{Engine 3 hr/yr}) + (\text{Engine 4 lb/hr} \times \text{Engine 4 hr/yr}) + (\text{Engine 5 lb/hr} \times \text{Engine 5 hr/yr}) + (\text{Engine 6 lb/hr} \times \text{Engine 6 hr/yr})) \times 1 \text{ ton} / 2,000 \text{ lb}$ <p>Engine lb/hr will be the average of the three runs for that engine based on the most recent stack test approved by NJDEP. [N.J.A.C. 7:27-22.16(o)]</p>	Formaldehyde: 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.

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Emission Unit: U1 6 Cinnamon Bay Generator Sets, subject to MACT Subpart ZZZZ & NSPS Subpart JJJJ

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Federal Requirements: 40 CFR 60 Subpart JJJJ 40 CFR 63 Subpart ZZZZ [None]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC, NOx, CO, SO2, TSP, PM-10, PM-2.5, and Formaldehyde as specified in the compliance plan for OS1-OS6.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition. The worst-case operating conditions shall be based upon the actual landfill gas flow rate at the time of the stack test.</p> <p>The November 2014 stack test (TST140001) shall satisfy this permit requirement for the permit term ending January 23, 2017.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved 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 BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS 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)] & [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>Conduct a comprehensive stack test for each Cinnamon Bay engine (E1 - E6) every 8,760 hour of operation or 3 years, whichever comes first, to demonstrate compliance with the VOC, NOx, and CO emission limits, in accordance with NSPS Subpart JJJJ. Sampling points shall be established for each engine prior to the exhaust stream entering the main exhaust duct (PT1). The heat content of the landfill gas shall be measured prior to each engine test.</p> <p>Testing must be performed according to the procedures specified in 40 CFR 60.4244. [40 CFR 60.4243(b)2ii] & [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by stack emission testing at the approved frequency, based on the average of three 1-hour tests. Each performance test must be conducted according to the requirements in 40 CFR 60.8 and 40 CFR 60.4244 and under the specific conditions specified in Table 2 to 40 CFR 60 Subpart JJJJ. An initial performance test must be conducted within 1 year of engine startup. The tests must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). Three separate test runs for each performance test must be conducted, each test run must last at least 1 hour. Compliance with the emission limits shall be determined based on calculations in 40 CFR 60.4244(d) through (g). [40 CFR 60.4243(b)(2)(ii)] & [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by stack test results upon occurrence of event. The owner or operator of must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)(4)] & [N.J.A.C. 7:27-22.16(o)]</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved 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 BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS 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)] & [N.J.A.C. 7:27-22.18(h)]</p>
4	<p>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]</p>	None.	None.	None.
5	<p>Particulate Emissions <= 7.22 lb/hr for each Cinnamon Bay engine (E1- E6). [N.J.A.C. 7:27- 4.2(a)]</p>	None.	None.	None.
6	<p>Maximum Gross Heat Input <= 16.1 MMBTU/hr (HHV) for each Cinnamon Bay engine (E1 - E6), based on the heat content of the treated landfill gas. [N.J.A.C. 7:27-22.16(a)]</p>	None.	<p>Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].</p>	None.

U1 6 Cinnamon Bay Generator Sets, subject to MACT Subpart ZZZZ & NSP:

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	Fuel type limited to treated landfill gas, pursuant to 40 CFR 60.752(b), or landfill gas supplemented with natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	The facility shall record the amount of landfill gas combusted annually in the 6 Cinnamon Bay engines (E1 - E6) on a rolling 12 month basis. See GR1 for landfill gas emission cap. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. The permittee shall install, calibrate, and maintain the monitor(s) in accordance with manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [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.
9	The facility shall record the hours of operation annually for each of the 6 Cinnamon Bay engines (E1 - E6) on a rolling 12 month basis. See GR1 for hours of operation usage cap. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. [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. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
10	The owner or operator of any stationary reciprocating engine shall adjust the combustion process in accordance with the procedure set forth at N.J.A.C. 7:27-19.16 and according to manufacturer's recommended maintenance schedules.. [N.J.A.C. 7:27-16.10(e)] & [N.J.A.C. 7:27-19.8(f)2]	Other: The owner or operator of a stationary reciprocating engine shall ensure that the adjustment of the combustion process is carried out according to the manufacturer's recommended procedures and maintenance schedule.[N.J.A.C. 7:27-19.16(g)].	Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator of a stationary reciprocating engine shall ensure that each adjustment is recorded in a log book or computer data system and retained for a minimum of five years, to be made readily accessible to the Department upon request. Such record shall contain the following information for each adjustment: 1. The date of the adjustment and the times at which it began and ended; 2. The name, title, and affiliation of the person who performed the procedure and adjustment; 3. The type of procedure and maintenance performed; 4. The concentrations of NOx, CO and O2, measured before and after the adjustment was made; and 5. The type and amount of fuel use over the 12 months prior to the adjustment. [N.J.A.C. 7:27-19.16(h)]	None.
11	See GR1 for allowable annual emissions from the 6 Cinnamon Bay engines (E1-E6). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	The Cinnamon Bay engines (E1 - E6) are subject to the provisions of NSPS Subpart JJJJ: Standards of Performance for Stationary Spark Ignition Internal Combustion Engines because they are stationary SI ICE that commenced construction after June 12, 2006, where the stationary SI ICE are manufactured after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP. [40 CFR 60.4230(a)(4)(i)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	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. [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)]
14	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. [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)]
15	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
16	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the actual date of initial startup of an affected facility postmarked within 15 days after such date. [40 CFR 60.7(a)(3)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(3)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	<p>The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic 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). The notification shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of facility before and after the change and the expected completion date of the change. Notification shall be postmarked within 60 days or as soon as practicable before any change is commenced. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]</p>	None.	None.	<p>Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(4)]</p>
18	<p>The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]</p>	None.	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The records should be kept in a permanent form suitable for inspections. [40 CFR 60.7(b)]</p>	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall contain the information required in 40 CFR 60.7(b) and be postmarked by the 30th day following the end of each six-month period. The report shall be submitted to the EPA Region 2 Administrator and the appropriate Regional Enforcement Office of NJDEP and be in the format specified at 40 CFR Part 60.7(c) and 40 CFR Part 60.7(d). [40 CFR 60.7(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator shall maintain a file, suitable for inspection, of all monitoring measurements as indicated in Recordkeeping Requirement column. [40 CFR 60.7(f)]	None.	Other: The file shall include 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, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least two years following the dates of the record, except as prescribed in 40 CFR 60.7(f)(1) through (3). Sources subject to 40 CFR 70, are required to retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application, per 40 CFR 70.6(a)(3)(ii)(B). [40 CFR 60.7(f)].	None.
20	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. [40 CFR 60.8(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	Performance tests shall be conducted under conditions the Administrator specifies to the plant operator based on representative performance of the affected facility. Operations during periods of startup, shutdown and malfunction shall not constitute representative conditions for the purpose of the performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard. [40 CFR 60.8(c)]	None.	None.	None.
22	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). [40 CFR 60.8(d)]	None.	None.	None.
23	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.
24	Compliance with NSPS standards specified in this permit, other than opacity, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	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.
26	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. [40 CFR 60.12]	None.	None.	None.
27	Upon modifications, emission rates for an affected facility shall be expressed as kg/hr of any pollutant discharged into the atmosphere for which a standard applies. [40 CFR 60.14(b)]	None.	None.	None.
28	The provisions set forth under an applicable subparts of 40 CFR Part 60 supersede conflicting provisions listed under Modification in 40 CFR Part 60.14. [40 CFR 60.14(f)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
29	Compliance with all applicable standards must be achieved within 180 days of completion of any physical or operational change subject to the control measures specified in 40 CFR Part 60.14(a). [40 CFR 60.14(g)]	None.	None.	None.
30	The owner or operator shall notify the Administrator of the proposed replacement of components. [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)]
31	Applicable subpart in 40 CFR Part 60 includes specific provisions which refine and delimit reconstruction as defined in 40 CFR Part 60.15. [40 CFR 60.15(g)]	None.	None.	None.
32	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. [40 CFR 60.19]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
33	<p>VOC (Total) <= 1 grams/brake horsepower-hour or 80 ppmvd @ 15% O2 for each engine. Maximum emission limit from Table 1 for landfill gas engines => 500 bhp and manufactured after 7/1/07. For purposes of 40 CFR 60 Subpart JJJJ, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included. [40 CFR 60.4233(e)] & [40 CFR 60.4241(h)]</p>	<p>VOC (Total): Monitored by stack emission testing once initially and every 8,760 hours of operation or 3 years, whichever comes first, based on the average of three Department validated stack test runs. Each performance test must be conducted according to the requirements in 40 CFR 60.8 and 40 CFR 60.4244 and under the specific conditions specified in Table 2 to 40 CFR 60 Subpart JJJJ. An initial performance test must be conducted within 1 year of engine startup. The tests must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). Three separate test runs for each performance test must be conducted, each test run must last at least 1 hour. Compliance with the emission limits shall be determined based on calculations in 40 CFR 60.4244(f) and (g). [40 CFR 60.4243(b)(2)(ii)]</p>	<p>VOC (Total): Recordkeeping by stack test results upon occurrence of event. The owner or operator of a SI ICE engine must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)(4)] & [N.J.A.C. 7:27-22.16(o)]</p>	<p>Submit a report: Within 60 days of stack testing. The owner or operator must submit the results of a stack test to EPA Region 2 and to the Regional Enforcement Office of NJDEP. [40 CFR 60.4245(d)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
34	NOx (Total) <= 3 grams/brake horsepower-hour or 220 ppmvd @ 15% O2 for each engine. Maximum emission limit from Table 1 for landfill gas engines => 500 bhp and manufactured after 7/1/07. [40 CFR 60.4233(e)]	NOx (Total): Monitored by stack emission testing once initially and every 8,760 hours of operation or 3 years, whichever comes first, based on the average of three Department validated stack test runs. Each performance test must be conducted according to the requirements in 40 CFR 60.8 and 40 CFR 60.4244 and under the specific conditions specified in Table 2 to 40 CFR 60 Subpart JJJJ. An initial performance test must be conducted within 1 year of engine startup. The tests must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). Three separate test runs for each performance test must be conducted, each test run must last at least 1 hour. Compliance with the emission limits shall be determined based on calculations in 40 CFR 60.4244(d). [40 CFR 60.4243(b)(2)(ii)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. The owner or operator of a SI ICE engine must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)(4)] &. [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of stack testing. The owner or operator must submit the results of a stack test to EPA Region 2 and to the Regional Enforcement Office of NJDEP. [40 CFR 60.4245(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
35	CO ≤ 5 grams/brake horsepower-hour or 610 ppmvd @ 15% O ₂ for each engine. Maximum emission limit from Table 1 for landfill gas engines => 500 bhp and manufactured after 7/1/07. [40 CFR 60.4233(e)]	CO: Monitored by stack emission testing once initially and every 8,760 hours of operation or 3 years, whichever comes first, based on the average of three Department validated stack test runs. Each performance test must be conducted according to the requirements in 40 CFR 60.8 and 40 CFR 60.4244 and under the specific conditions specified in Table 2 to 40 CFR 60 Subpart JJJ. An initial performance test must be conducted within 1 year of engine startup. The tests must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and may not be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). Three separate test runs for each performance test must be conducted, each test run must last at least 1 hour. Compliance with the emission limits shall be determined based on calculations in 40 CFR 60.4244(e). [40 CFR 60.4243(b)(2)(ii)]	CO: Recordkeeping by stack test results upon occurrence of event. The owner or operator of a SI ICE engine must keep documentation demonstrating compliance with the applicable emission standards. [40 CFR 60.4245(a)(4)] & [N.J.A.C. 7:27-22.16(o)]	Submit a report: Within 60 days of stack testing. The owner or operator must submit the results of a stack test to EPA Region 2 and to the Regional Enforcement Office of NJDEP. [40 CFR 60.4245(d)]
36	Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [40 CFR 60.4234]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
37	<p>The owner and operator must keep records of the following information:</p> <p>(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.</p> <p>(2) Maintenance conducted on the engine.</p> <p>(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.</p> <p>(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards. [40 CFR 60.4245(a)]</p>	None.	Other: See Applicable Requirement.[40 CFR 60.4245(a)].	None.
38	<p>The owner or operator of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in 40 CFR 60.4231 must submit an initial notification as required in 40 CFR 60.7(a)(1). The notification must include the following:</p> <p>(1) Name and address of the owner or operator;</p> <p>(2) The address of the affected source;</p> <p>(3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;</p> <p>(4) Emission control equipment; and</p> <p>(5) Fuel used. [40 CFR 60.4245(c)]</p>	None.	None.	Submit notification: Once initially. See Applicable Requirement. [40 CFR 60.4245(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	The Cinnamon Bay engines (E1 - E6) are subject to the provisions of MACT Subpart ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines because they are stationary RICE at a major source of HAP emissions. [40 CFR 63.6585]	None.	None.	None.
40	No owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; (2) The use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.
41	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.
42	The owner or operator of an affected source shall conduct monitoring as specified in the relevant standard, unless otherwise specified by the Administrator. [40 CFR 63.8(b)(1)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	The owner or operator of a new or reconstructed major affected source must provide a notification of intention to construct a new major-emitting affected source, or reconstruct a major source that becomes a major- emitting affected source, with the application for approval of construction or reconstruction as specified in 40 CFR 63.5(d)(1)(i). [40 CFR 63.9(b)(4)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: As per the approved schedule. The notification shall be submitted before start-up but not later than 60 days after the effective date of a relevant standard. [40 CFR 63.5(d)(1)(i)]
44	The owner or operator of a new or reconstructed affected source must provide the following information to the Administrator: notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source: notification of the actual date of startup of the source shall be delivered or postmarked within 15 calendar days after that date. [40 CFR 63.9(b)(5)]	None.	Recordkeeping by other recordkeeping method (provide description) once initially. Notification records shall be maintained and recorded in a form suitable and readily available for expeditious inspection and review for at least 5 years following the date of each record. At minimum, the most two recent years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on a computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)]	Submit notification: Upon occurrence of event. [40 CFR 63.9(b)(5)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	<p>The owner or operator shall submit all information required under 40 CFR 63 to the Regional Enforcement Office of NJDEP. The owner or operator shall send a copy of each report submitted to NJDEP under 40 CFR 63 to Director, Air and Waste Management Division, USEPA Region 2, 290 Broadway, New York, NY 10007-1866. [40 CFR 63.10(a)(4)(ii)]</p>	None.	<p>Other: The owner or operator of an affected source subject to the provisions of this part shall maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent 2 years of data shall be retained on site. The remaining 3 years of data may be retained off site. Such files may be maintained on microfilm, on a computer, on computer floppy disks, on magnetic tape disks, or on microfiche. [40 CFR 63.10(b)(1)].</p>	<p>Other (provide description): As per the approved schedule. Submit reports and notifications as required by 40 CFR 63 to EPA Region 2 and NJDEP. [40 CFR 63.13(b)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
46	<p>The owner or operator of a new stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of 40 CFR 63.6645(h) and the requirements of 40 CFR 63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of 40 CFR 63 Subpart ZZZZ. [40 CFR 63.6590(b)(2)]</p>	None.	None.	<p>Submit notification: Once initially. The owner or operator shall an Initial Notification that includes the information in 40 CFR 63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion. The notification should include the following information:</p> <ul style="list-style-type: none"> (i) The name and address of the owner or operator; (ii) The address (i.e., physical location) of the affected source; (iii) An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date; (iv) A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; (v) A statement of whether the affected source is a major source or an area source; and (vi) a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion. [40 C.F.R. 63.9(b)(2)] and. [40 CFR 63.6645(f)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
47	The owner or operator of a new stationary RICE which fires landfill gas equivalent to 10 percent or more of the gross heat input on an annual basis, must monitor and record the fuel usage daily with a single separate fuel meter for landfill gas and a single separate fuel meter for natural gas (if natural gas is being combusted) to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions. [N.J.A.C. 7:27-22.16(a)] & [40 CFR 63.6625(c)]	Monitored by fuel usage totalizing meter continuously. [40 CFR 60.6625(c)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [40 CFR 60.6655(c)]	None.
48	The owner or operator of a new stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report. [40 CFR 63.6650(g)]	None.	None.	Submit a report: Annually according to Table 7. 40 C.F.R. 63 Subpart ZZZZ. The first compliance report must cover the period beginning on the startup of the affected source and ending on December 31. The first compliance report must be postmarked or delivered no later than January 31. Each subsequent compliance report must cover the annual reporting period from January 1 through December 31. Each subsequent compliance report must be postmarked or delivered no later than January 31. You must report the following data: (1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis; (2) The operating limits provided in your federally enforceable permit, and any deviations from these limits; and (3) Any problems or errors suspected with the meters. [40 C.F.R. 63.6595(a)(3)] and. [40 CFR 63.6650(g)]

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Emission Unit: U1 6 Cinnamon Bay Generator Sets, subject to MACT Subpart ZZZZ & NSPS Subpart JJJJ

Operating Scenario: OS1 Cinnamon Bay Generator Set #1, OS2 Cinnamon Bay Generator Set #2, OS3 Cinnamon Bay Generator Set #3, OS4 Cinnamon Bay Generator Set #4, OS5 Cinnamon Bay Generator Set #5, OS6 Cinnamon Bay Generator Set #6

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 0.96 grams/brake horsepower-hour (including formaldehyde). Maximum emission rate based on case-by-case State of the Art (SOTA) analysis. [N.J.A.C. 7:27-22.35]	VOC (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
2	VOC (Total) <= 4.73 lb/hr (including formaldehyde). Maximum emission rate based on self-imposed limit to avoid triggering Subchapter 18. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
3	VOC (Total) <= 2.3 lb/hr (not including formaldehyde). Maximum emission rate based on self-imposed limit to avoid triggering Subchapter 18. [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
4	NOx (Total) <= 0.9 grams/brake horsepower-hour. For an engine that has a maximum rated power output of 37 kW or greater and that has commenced operation at the facility on or after March 7, 2007, cause it to emit NOx at a rate no greater than 0.90 grams per bhp-hr. [N.J.A.C. 7:27-19.8(e)2]	NOx (Total): Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests. Any NOx testing conducted pursuant to N.J.A.C. 7:27-19.15(a)2 shall be conducted concurrently with CO testing. The applicable NOx emission limits in N.J.A.C. 7:27-19 will not be considered to have been met unless the concurrent CO testing demonstrates compliance with the CO limit in N.J.A.C. 7:27-16.10 or the permit limit for CO, whichever is more stringent, is also met. [N.J.A.C. 7:27-19.15(a)2] & [N.J.A.C. 7:27-22.16(o)]	NOx (Total): Recordkeeping by stack test results upon occurrence of event. [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. 7:27-22.16(o)]
5	NOx (Total) <= 0.5 grams/brake horsepower-hour. Maximum emission rate based on LAER analysis and case-by-case State of the Art (SOTA) analysis. [N.J.A.C. 7:27-22.16(a)], [N.J.A.C. 7:27-22.35], & [N.J.A.C. 7:27-18.3(b)1]	NOx (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	NOx (Total) <= 2.46 lb/hr. Maximum emission rate based on emission factor (0.5 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
7	CO <= 500 ppmvd @ 15% O2. The owner or operator of any stationary reciprocating engine subject to N.J.A.C. 7:27-16 shall cause it to emit CO in concentrations that do not exceed 500 parts per million by volume, dry basis (ppmvd) at 15 percent oxygen. [N.J.A.C. 7:27-16.10(b)]	CO: Monitored by stack emission testing prior to permit expiration date, based on the average of three 1-hour tests. [N.J.A.C. 7:27-16.23(a)2] &. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [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. 7:27-22.16(o)]
8	CO <= 3.28 grams/brake horsepower-hour. Maximum emission rate based on case-by-case State of the Art (SOTA) analysis. [N.J.A.C. 7:27-22.35]	CO: Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
9	CO <= 16.16 lb/hr. Maximum emission rate based on emission factor (3.28 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
10	SO2 <= 0.53 lb/hr. Maximum emission rate based on emission factor (0.11 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	SO2: Monitored by stack emission testing 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)]	SO2: Recordkeeping by stack test results upon occurrence of event. [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. 7:27-22.16(o)]
11	TSP <= 0.44 lb/hr. Maximum emission rate based on emission factor (0.089 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
12	PM-10 (Total) <= 0.44 lb/hr. Maximum emission rate based on emission factor (0.089 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
13	PM-2.5 (Total) <= 0.44 lb/hr. Maximum emission rate based on emission factor (0.089 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	PM-2.5 (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	Formaldehyde <= 0.49 grams/brake horsepower-hour. Maximum emission rate based on case-by-case State of the Art (SOTA) analysis. [N.J.A.C. 7:27-22.35]	Formaldehyde: Monitored by stack emission testing 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)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. [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. 7:27-22.16(o)]
15	Formaldehyde <= 2.43 lb/hr. Maximum emission rate of this HAP based on emission factor (0.49 g/BHP-hr) and engine size (2,233 BHP). [N.J.A.C. 7:27-22.16(a)]	Formaldehyde: Monitored by stack emission testing 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)]	Formaldehyde: Recordkeeping by stack test results upon occurrence of event. [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. 7:27-22.16(o)]

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Emission Unit: U2 EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Federal Requirements: 40 CFR 60 Subpart WWW 40 CFR 63 Subpart AAAA [None]	None.	None.	None.
2	<p>STACK TESTING SUMMARY</p> <p>The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC, NOx, and CO as specified in the compliance plan for OS1 & OS2.</p> <p>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)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Bureau of Technical Services (BTS) at Mail Code: 380-01A, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved 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 BTS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert.</p> <p>Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact BTS at 609-530-4041 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to BTS 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)] & [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator shall not allow the direct release of landfill gas into the atmosphere. All landfill gas collected shall be combusted in the enclosed flares (CD7 and CD8) or treated (CD11) prior to transfer to the Cinnamon Bay or Middlesex County Utilities Authority landfill gas engines. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit notification: As per the approved schedule. All non-compliance with the flare operating limitations, or the emission limits, shall be reported verbally within 2 working days and a written report within 30 days to the Regional Enforcement Office. The report shall include: (1) the nature of the exceedance, (2) the amount of the exceedance, corrective actions taken, and (3) measures taken to prevent future exceedances. [N.J.A.C. 7:27-22.16(o)]
4	Propane, natural gas or landfill gas shall be used for ignition and as a pilot fuel for the flares. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
5	Acrylonitrile <= 146 lb/yr. Fugitive emissions from the 125 acre section of the closed Edgeboro Disposal Inc. Landfill covered by the gas collection system. The emissions limit is based on 90% capture and collection of fugitive landfill gas emissions. [N.J.A.C. 7:27-22.16(e)]	Acrylonitrile: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Acrylonitrile: 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.
6	Vinyl chloride <= 375 lb/yr. Fugitive emissions from the 125 acre section of the closed Edgeboro Disposal Inc. Landfill covered by the gas collection system. The emissions limit is based on 90% capture and collection of fugitive landfill gas emissions. [N.J.A.C. 7:27-22.16(e)]	Vinyl chloride: Monitored by calculations once initially. [N.J.A.C. 7:27-22.16(o)]	Vinyl chloride: 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.
7	EDI and Edgeboro, Inc. shall operate and maintain the gas collection system at all times. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	Landfill gas shall be not released from any component of the collection system prior to combustion in the flares or LFG engines or transferred to MCUA or other facilities for beneficial use that have approved such transfer. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Record any instance where landfill gas is released from any component of the collection system prior to combustion in any flare.[N.J.A.C. 7:27-22.16(o)].	Notify by phone: Upon occurrence of event. The owner or operator shall contact the Environmental Action Hotline at 1-877-WARN DEP. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	In the event of a power interruption, the emergency generator (E8) shall be operated to ensure that the landfill gas collection and control system(s) continues to operate at maximum capacity. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	The permittee shall operate and maintain the GCCS, including the horizontal collectors and all active vertical wells, in accordance with all applicable requirements in the Landfill NSPS and MACT. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
11	The permittee shall conduct quarterly monitoring of methane concentrations at the surface of the Edgeboro Landfill in accordance with the requirements in the Landfill NSPS and MACT (see 40 CFR 60.753(d) and 60.755(c)), including, but not limited to, along the entire shared perimeter of the Edgeboro Landfill and the Middlesex County Landfill and within all areas located on the EDI side of the physical demarcation and where visual observations indicate elevated concentrations of landfill gas such as distressed vegetation and cracks or seeps in the cover. [N.J.A.C. 7:27-22.16(a)]	Other: Monitor in accordance with 40 CFR 60.755(c).[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)]	None.
12	The permittee may transfer landfill gas collected by the Edgeboro Landfill GCCS for environmentally beneficial use at other facilities. EDI and Edgeboro, Inc. shall not transfer landfill gas if EDI and Edgeboro, Inc. do not have approval from the recipient to make such transfer, or if the transfer would cause or allow the recipient to exceed or violate any of its permitted limits, operating scenarios, terms, or conditions applicable to a GTE facility. [N.J.A.C. 7:27-22.16(a)]	None.	Other: EDI and Edgeboro, Inc. shall keep and maintain records of all transfers of landfill gas. These records shall include the date(s) that any landfill gas is transferred, and for each date identified, the duration of all periods in which landfill gas is being transferred and the gas flow rate of the landfill gas being transferred.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	Until termination of the Consent Decree (CD) or amended Alternate Operating Scenario (AOS), between EDI, Edgeboro, Inc., the State of New Jersey and the United States, compliance with any term or condition of the CD or amended AOS, as appropriate, shall constitute compliance with the corresponding provision(s), if any, of the Landfill NSPS and MACT. See attached CD, AOS. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	The facility shall record the amount of landfill gas combusted annually in the 2 EDI enclosed flares (CD7 & CD8) on a rolling 12 month basis. See GR1 for landfill gas emission cap. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously. The permittee shall install, calibrate, and maintain the monitor(s) in accordance with manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [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.
15	The facility shall record the amount of hours of operation annually for each of the 2 EDI enclosed flares (CD7 & CD8) on a rolling 12 month basis. See GR1 for hours of operation usage cap. [N.J.A.C. 7:27-22.16(a)]	Monitored by hour/time monitor continuously. [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. [N.J.A.C. 7:27-22.16(o)]	None.
16	See GR1 for emissions from the 2 EDI enclosed flares (CD7 & CD8). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	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. [40 CFR 60.4(a)]	None.	None.	Submit a report: As per the approved schedule , submit reports to EPA Region II as required by 40 CFR 60. Submit Region II information to: Director, Air and Waste Management Division, US Environmental Protection Agency, Region II, 290 Broadway, New York, NY 10007-1866. [40 CFR 60.4(a)]
18	Submit a copy of all requests, reports, applications, submittals, and other communications required by 40 CFR Part 60 to the Central Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to NJDEP Regional Enforcement Office as required by 40 CFR 60. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of air pollution control equipment or any periods during which continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Other: Maintain readily accessible records.[40 CFR 60.7(b)].	None.
20	<p>Each owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see section 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate).</p> <p>(This condition applies to the landfill gas flow meters monitoring gas flow to and bypass of the flares and the operating temperature monitor for the enclosed flares. From BOP100001.) [40 CFR 60.7(c)]</p>	Other: Perform monitoring in accordance with 40 CFR 60.13.[40 CFR 60.7(c)].	Other: Written reports of excess emissions shall include the following information: (1) The magnitude of excess emissions computed in accordance with section 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period and excess emissions. The process operating time during the reporting period. (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted. (3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments. (4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.[40 CFR 60.7(c)].	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): As per the approved schedule. Submit report by the 30th day following the end of each calendar half. The reports shall be submitted to the EPA Region II Administrator, the NJDEP Regional Office and Chief, Bureau of Technical Services, NJDEP, P.O. Box - 411, Trenton, NJ 08625-0411. [40 CFR 60.7(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The owner or operator 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.
22	At all times, including periods of startup, shutdown and malfunctions, 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.	Other: The file shall include 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, all adjustments/maintenance performed on these systems or devices, and all other information required by 40 CFR Part 60 recorded in a permanent form suitable for inspection.[40 CFR 60.7(f)].	None.
23	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.[40 CFR 60.12]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR Part 60 shall be used. [40 CFR 60.13(f)]	None.	None.	None.
25	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. [40 CFR 60.19]	None.	None.	None.
26	The owner or operator shall submit a collection and control system design plan prepared by a professional engineer to the Administrator. The collection and control system as described in the plan shall meet the design requirements of 40 CFR 60.752(b)(2)(ii). The collection and control system and design plan was submitted to, and approved by USEPA and NJDEP as part of the Alternative Operating Scenario (AOS) approved by USEPA on August 13, 2008. From BOP100001. [40 CFR 60.752(b)(2)]	None.	None.	Submit a report: Once initially. [40 CFR 60.757(c)]
27	The owner or operator shall route all the collected gas to a control system that complies with the requirements in 40 CFR 60.752(b)(2)(iii)(A), (B), or (C). [40 CFR 60.752(b)(2)(iii)]	None.	Other: The owner or operator, except as provided in 40 CFR 60.752(b)(2)(i)(B), shall 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 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.[40 CFR 60.758(e)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	<p>Each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 40 CFR 60.752(b)(2)(ii) shall operate the collection system such that gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for:</p> <p>(1) 5 years or more if active; or (2) 2 years or more if closed or at final grade. [40 CFR 60.753(a)]</p>	None.	None.	None.
29	<p>Each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 40 CFR 60.752(b)(2)(ii) shall operate the collection system with negative pressure at each wellhead except under the following conditions:</p> <p>(1) A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1);</p> <p>(2) Use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan;</p> <p>(3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator. [40 CFR 60.753(b)]</p>	Monitored by pressure measurement device each month during operation. The owner or operator shall measure the gauge pressure in the gas collection header at each individual well. [40 CFR 60.756(a)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall record the gauge pressure for each individual well. In addition, the owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1). [40 CFR 60.753(b)] and. [40 CFR 60.758(c)]	Comply with the requirement: As per the approved schedule. If a positive pressure exists, action shall be initiated to correct the exceedance within 5 calendar days, except for the three conditions allowed under 40 CFR 60.753(b). If negative pressure cannot be achieved without excess air infiltration within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial measurement of positive pressure. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. Instances of positive pressure in efforts to avoid a fire shall be submitted with the annual reports as provided in 40 CFR 60.757(f)(1). [40 CFR 60.753(b)] &. [40 CFR 60.755(a)(3)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
30	<p>Each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 40 CFR 60.752(b)(2)(ii) shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 deg C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The owner or operator may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.</p> <p>(1) The nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i) of this subpart.</p> <p>(2) Unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i) of this subpart, the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that:</p> <p>(i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span;</p> <p>(ii) A data recorder is not required;</p> <p>(iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span;</p> <p>(iv) A calibration error check is not required;</p> <p>(v) The allowable sample bias, zero drift, and calibration drift are +/-10 percent. [40 CFR 60.753(c)]</p>	<p>Other: Monitoring shall occur monthly. The temperature shall be determined by a temperature instrument. The nitrogen level shall be determined using Method 3C. The oxygen shall be determined by an oxygen meter using Method 3A or 3C except that:</p> <p>(i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; (ii) A data recorder is not required; (iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; (iv) A calibration error check is not required; and (v) The allowable sample bias, zero drift, and calibration drift are +/- 10 percent. [40 CFR 60.753(c)] & [40 CFR 60.755(a)(5)] & [40 CFR 60.756(a)].</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation of nitrogen concentration, oxygen concentration, and temperature at each interior wellhead in the collection system. [40 CFR 60.758(c)]</p>	<p>Comply with the requirement: As per the approved schedule. If a well exceeds one of these operating parameters, action shall be initiated to correct the exceedance within 5 calendar days. If correction of the exceedance cannot be achieved within 15 calendar days of the first measurement, the gas collection system shall be expanded to correct the exceedance within 120 days of the initial exceedance. Any attempted corrective measure shall not cause exceedances of other operational or performance standards. [40 CFR 60.755(a)(5)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	<p>The owner or operator shall operate the collection system so that the methane concentration is less than 500 ppm above background at the surface of the landfill. To determine if this level is exceeded, the owner or operator shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance and the actions specified in (i) through (v) in the Submittal/Action Requirement shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of 40 CFR 60.753(d). Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring. [40 CFR 60.753(d)] & [40 CFR 755(c)(4)] & [40 CFR 60.756(f)]</p>	<p>Other: The owner or operator shall 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 on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). The background concentration shall 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 shall be performed in accordance with section 4.3.1 of Method 21 of appendix A of 40 CFR 60, except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions. The owner or operator shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.[40 CFR 60.755(c)].</p>	<p>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 owner or operator shall log the methane concentration in the collection system. [40 CFR 60.758(c)]</p>	<p>Comply with the requirement: As per the approved schedule (i) The location of each monitored exceedance shall be marked & recorded; (ii) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made & the location shall be remonitored within 10 calendar days of detecting the exceedance; (iii) If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken & the location shall be monitored again within 10 days of the second exceedance. If the remonitoring shows a third exceedance for the same location, the action in (v) shall be taken, & no further monitoring of that location is required until the action in (v) has been 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 remonitoring specified in (ii) or (iii) shall be remonitored 1 month from the initial exceedance. If the 1-month remonitoring shows a concentration less than 500 ppm above background, no further monitoring of that location is required until the next quarterly monitoring period. If the 1-month remonitoring shows an exceedance, the actions in (iii) or (v) shall 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 shall be installed within 120 calendar days of the initial exceedance. [40 CFR 60.755(c)(4)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
32	Each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 40 CFR 60.752(b)(2)(ii) shall operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour. [40 CFR 60.753(e)]	None.	None.	None.
33	The owner or operator shall operate the control or treatment system at all times when the collected gas is routed to the system. [40 CFR 60.753(f)]	None.	None.	None.
34	Except as provided in 40 CFR 60.752(b)(2)(i)(B), each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 40 CFR 60.752(b)(2)(ii) shall: If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the operational requirements of 40 CFR 60.753. [40 CFR 60.753(g)]	None.	None.	Comply with the requirement: As per the approved schedule. If monitoring demonstrates that the operational requirements in 40 CFR 60.753(b), (c), or (d) are not met, corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). [40 CFR 60.753(g)]
35	The provisions of NSPS Subpart WWW apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices. [40 CFR 60.755(e)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
36	Each owner or operator shall calibrate, maintain, and operate according to the manufacturer's specifications, a device that records flow to or bypass of the control device; or the owner or operator shall secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. [40 CFR 60.756(b)(2)]	Monitored by fuel flow/firing rate instrument every 15 minutes : or, a visual inspection of the seal or closure mechanism shall 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 60.756(b)(2)(ii)]	Other: The owner or operator shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines.[40 CFR 60.758(c)(2)].	None.
37	Each owner or operator subject to the requirements of 40 CFR Subpart WWW is exempted from the requirements of 40 CFR 60.757(b)(1) and (2), after the installation of a collection and control system in compliance with 40 CFR 60.752(b)(2), during such time as the collection and control system is in operation and in compliance with 40 CFR 60.753 and 40 CFR 60.755. [40 CFR 60.757(b)(3)]	None.	None.	None.
38	Each owner or operator shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment. [40 CFR 60.757(e)]	None.	None.	Submit a report: As per the approved schedule. The equipment removal report shall contain all of the following items: (i) A copy of the closure report submitted in accordance with 40 CFR 60.757(d); (ii) A copy of the initial performance test report demonstrating that the 15 year minimum control period has expired; and (iii) Dated copies of three successive NMOC emission rate reports demonstrating that the landfill is no longer producing 50 megagrams or greater of NMOC per year. [40 CFR 60.757(e)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
39	<p>Each owner or operator of a controlled landfill subject to the provisions of 40 CFR 60 Subpart WWW shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. [40 CFR 60.758(c)]</p>	None.	Other: See applicable requirement.[40 CFR 60.758(c)].	None.
40	<p>Each owner or operator subject to the provisions of 40 CFR Subpart WWW shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.</p> <p>(1) Each owner or operator shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under 40 CFR 60.755(b).</p> <p>(2) Each owner or operator shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or nondegradable waste excluded from collection as provided in 40 CFR 60.759(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 CFR 60.759(a)(3)(ii).</p> <p>The owner or operator will also maintain an updated list of decommissioned wells that have been decommissioned after issuance of permit modification BOP100001. [N.J.A.C. 7:27-22.16(a)] & [40 CFR 60.758(d)]</p>	None.	Other: See applicable requirement.[40 CFR 60.758(d)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
41	Each owner or operator shall 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 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)]	None.	Other: See Applicable Requirement.[40 CFR 60.758(e)].	None.
42	No owner or operator subject to the provisions of 40 CFR 63 must operate any affected source in violation of the requirements of 40 CFR 63. No owner or operator subject to the provisions of 40 CFR 63 shall fail to keep records, notify, report, or revise reports as required under 40 CFR 63. [40 CFR 63.4(a)]	None.	None.	None.
43	For equipment subject to MACT, no owner or operator subject to the provisions of MACT Subpart A in 40 CFR 63 shall build, erect, install, or use any article, machine, equipment, or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to: (1) The use of diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere; and (2) the use of gaseous diluents to achieve compliance with a relevant standard for visible emissions. [40 CFR 63.4(b)]	None.	None.	None.
44	The owner and operator must not use fragmentation or phasing of reconstruction activities (i.e., intentionally dividing reconstruction into multiple parts for purposes of avoiding new source requirements) to avoid becoming subject to new source requirements. [40 CFR 63.4(c)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	The owner or operator must operate and maintain any affected source at all times, including periods of startup, shutdown, and malfunction, including associated APC equipment and monitoring equipment for minimizing emissions to the levels required by the relevant standards, i.e., meet the emission standard or comply with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(i)]	None.	None.	None.
46	For equipment subject to MACT, malfunctions shall be corrected as soon as practicable after their occurrence, in accordance with the startup, shutdown, and malfunction plan required under 40 CFR 63.6(e)(3). [40 CFR 63.6(e)(1)(ii)]	None.	None.	Comply with requirement: Upon occurrence of event. Correct the malfunction as soon as practicable in accordance with the startup, shutdown, and malfunction plan. [40 CFR 63.6(e)(1)(ii)]
47	The owner or operator of an affected source must develop and implement a written startup, shutdown and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; a program of corrective action for malfunctioning process; and APC and monitoring equipment used to comply with relevant standard. The plan must be developed by the source's compliance date for that relevant standard. [40 CFR 63.6(e)(3)(i)]	None.	Other: The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and make the plan available upon request for inspection. In addition, the owner or operator must maintain each previous version of the plan for a period of 5 years after the revision of the plan.[40 CFR 63.6(e)(3)(v)].	None.
48	During periods of startup, shutdown, and malfunction, the owner or operator of an affected source must operate and maintain such source, including APC and monitoring equipment, in accordance with the procedures specified in the startup, shutdown and malfunction plan developed under paragraph 40 CFR 63.6(e)(3)(i). [40 CFR 63.6(e)(3)(ii)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
49	<p>The owner or operator of an affected source must keep records of actions taken during a startup, shutdown, or malfunction, which are consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan, including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the APC and monitoring equipment. [40 CFR 63.6(e)(3)(iii)]</p>	<p>None.</p>	<p>Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of:</p> <ul style="list-style-type: none"> (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)] 	<p>Submit a report: Semiannually beginning within 6 months of initial start-up. The startup, shutdown, or malfunction report shall consist of a letter containing: name, title, and signature of the owner or operator and shall be submitted to the Administrator. The report shall be delivered by the 30th day following the end of each calendar half. The report shall only be required if a startup, shutdown, or malfunction occurred during the reporting period and shall identify any instance where any action taken by an owner or operator during startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the affected source's startup, shutdown, or malfunction plan, but the source does not exceed any applicable emission limitation in the relevant emission standard. [40 CFR 63.10(d)(5)(i)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
50	The owner or operator of an affected source must keep records of actions which are not consistent with the procedures specified in the affected source's startup, shutdown, or malfunction plan and, if the source exceeds any applicable emission limitation in the relevant emission standard, must report such actions to the Administrator. [40 CFR 63.6(e)(3)(iv)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event. The owner or operator shall maintain relevant records for such source of: (i) The occurrence & duration of each startup, shutdown, or malfunction of operation (i.e., process equipment); (ii) The occurrence & duration of each malfunction of the required air pollution control (APC) and monitoring equipment; (iii) All required maintenance performed on the APC and monitoring equipment; (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan; (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan when all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and APC and monitoring equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events). [40 CFR 63.10(b)(2)]	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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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event, the owner or operator of an affected source must revise the startup, shutdown, and malfunction plan of such a source within 45 days after the event. [40 CFR 63.6(e)(3)(viii)]	None.	None.	Submit a report: Upon occurrence of event. Each startup, shutdown, and malfunction plan revision must be reported in the semiannual report required by 40 CFR 63.10(d)(5). [40 CFR 63.6(e)(3)(viii)]
52	The nonopacity emission standards shall apply at all times except during periods of startup, shutdown, and malfunction. [40 CFR 63.6(f)(1)]	None.	None.	None.
53	Existing affected sources and area sources must comply with the requirements of 40 CFR 63, subpart AAAAA and with the general provisions of this part by January 16, 2004. [40 CFR 63.1945(f)] & [40 CFR 63.1955(b)]	None.	None.	None.
54	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 AAAAA. [40 CFR 63.1960]	Monitored by parametric monitoring system continuously. [40 CFR 63.1960]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [40 CFR 63.1960]	Comply with requirement: As per the approved schedule. [40 CFR 63.1980]
55	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 AAAAA. [40 CFR 63.1960]	None.	Other: Maintain a current copy of the SSM plan on site. [40 CFR 63.1960] & [40 CFR 63.1980].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
56	<p>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.</p> <p>(a) A deviation occurs when the control device operating parameter boundaries described in 40 CFR 60.758(c)(1) of subpart WWW are exceeded.</p> <p>(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.</p> <p>(c) A deviation occurs when a SSM plan is not developed, implemented, or maintained on site. [40 CFR 63.1965]</p>	None.	None.	<p>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)]</p>

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Emission Unit: U2 EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

Operating Scenario: OS1 EDI - Edgeboro Landfill Gas sent to Enclosed Flare #1, OS2 EDI - Edgeboro Landfill Gas sent to Enclosed Flare #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	SO2 <= 20 lb. Maximum emission rate in any 60 minute period. [N.J.A.C. 7:27-7.2(b)2]	None.	None.	None.
2	SO2 <= 40 lb/hr. Maximum emission rate at any instant. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
3	Maximum Gross Heat Input <= 60 MMBTU/hr (HHV) for each of the EDI enclosed flares (CD7 & CD8) based on a landfill gas heat content of 500 Btu/scf. [N.J.A.C. 7:27-22.16(a)]	Maximum Gross Heat Input: Monitored by fuel flow/firing rate instrument continuously, based on a 1 hour block average. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Maximum Gross Heat Input: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
4	Flowrate <= 2,000 SCFM. Maximum inlet landfill gas flow rate for each of the EDI enclosed flares (CD7 & CD8). [N.J.A.C. 7:27-22.16(e)]	Flowrate: Monitored by fuel flow/firing rate instrument continuously (in scfm). The 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 the flare in scf. [N.J.A.C. 7:27-22.16(o)]	Flowrate: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
5	Minimum Operating Temperature at the Exit of the Combustion Section \geq 1,500 degrees F. 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. 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. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27-22.16(o)]	Minimum Operating Temperature at the Exit of the Combustion Section: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. [N.J.A.C. 7:27-22.16(o)]	None.
6	Minimum Residence Time \geq 0.9 seconds. The flare shall be designed to operate at no less than the minimum residence time. [N.J.A.C. 7:27-22.16(e)]	Minimum Residence Time: Monitored by calculations initial calculations only. [N.J.A.C. 7:27-22.16(o)]	Minimum Residence Time: 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.
7	Flare Shutdown - If either EDI enclosed flare (CD7 & CD8) ceases operation and cannot be relighted, the flow of landfill gas to the affected flare(s) shall be shutdown until normal operations are restored. [N.J.A.C. 7:27-22.16(e)]	Other: Monitored by a pilot thermocouple to ensure the presence of a pilot flame. A pilot flame alarm system shall be operated on each flare to alert operating personnel if the pilot flame fails to relight after any flare shuts down. [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 owner or operator shall record all periods of operation of each utility flare providing start-up time, shut down time, reason for operation and name of operator making the entry must be recorded. [N.J.A.C. 7:27-22.16(o)]	None.
8	Minimum VOC Destruction and Removal Efficiency \geq 95 %. Any flare in use at a major VOC facility after May 31, 1995, shall have been designed to reduce the concentration of VOC from the source operation by no less than 95 percent. [N.J.A.C. 7:27-16.13(a)]	Minimum VOC Destruction and Removal Efficiency: Monitored by stack emission testing prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-16.23(a)]	Minimum VOC Destruction and Removal Efficiency: Recordkeeping by stack test results 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. 7:27-22.16(o)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	The owner or operator shall inspect the flare before May 1 annually to verify that the flare continues to be operated in accordance with the manufacturer's specifications for the operation of the flare. [N.J.A.C. 7:27-16.13(c)]	Other: Monitored by annual inspection.[N.J.A.C. 7:27-16.13(c)].	Other: The owner or operator shall record the following in a permanently bound log book at the conclusion of each inspection: (1) name of person conducting the inspection; (2) date on which the inspection was conducted; (3) an entry indicating which flare was inspected; (4) any changes or adjustments made to the flare as a result of the inspection; and (5) a statement stating that the flare is currently being operated in compliance with the manufacturer's specifications.[N.J.A.C. 7:27-16.13(c)].	Repair equipment: Annually The permittee shall inspect the flare before May 1 of each year to verify that the flare continues to be operated in accordance with the manufacturer's specifications for operation. [N.J.A.C. 7:27-16.13(c)]
10	VOC (Total) <= 0.13 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.00217 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	VOC (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
11	NOx (Total) <= 3.6 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.06 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
12	NOx (Total) <= 0.06 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	NOx (Total): Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
13	CO <= 12 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.2 lb/MMBtu). [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
14	CO <= 0.2 lb/MMBTU. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing 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 upon occurrence of event. [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. 7:27-22.16(o)]
15	SO2 <= 0.126 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.00209 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	TSP <= 1.13 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.0189 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
17	PM-10 (Total) <= 1.13 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.0189 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	PM-2.5 (Total) <= 1.13 lb/hr. Maximum emission rate for each of the EDI enclosed flares (CD7 & CD8) based on maximum gross heat input (60 MMBtu/hr) and heat input based emission factor (0.0189 lb/MMBTU). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
19	The flare shall be designed for, and operated with, no visible emissions, except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. [40 CFR 60.18(c)(1)]	Monitored by visual determination once initially, based on a 2 hour period. Compliance shall be determined using Method 22 [40 CFR 60.18(f)(1)]	None.	None.
20	The flares shall be operated with a flame present at all times. [40 CFR 60.18(c)(2)]	Monitored by temperature instrument continuously, based on an instantaneous determination. The owner or operator may also use any other equivalent device to detect the presence of a flare pilot flame. [40 CFR 60.18(f)(2)]	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
21	The net heating value, Ht, [as calculated using the equation in 40 CFR Part 60.18(f)(3)] of the gas being combusted in air assisted flare shall be 300 Btu/SCF or greater. [40 CFR 60.18(c)(3)]	Monitored by calculations once initially. The net heating value of the gas being combusted in a flare shall be calculated using the equation in 40 CFR Part 60.18(f)(3). [40 CFR 60.18(f)(3)]	None.	None.
22	The owner or operator shall design and operate an air assisted flare with an exit velocity being less than Vmax [calculate using the equation in 40 CFR 60.18 (f)(6)]. [40 CFR 60.18(c)(5)]	Monitored by calculations once initially. The maximum permitted velocity, Vmax, shall be calculated using the equation in 40CFR Part 60.18.(f)(6). [40 CFR 60.18(f)(6)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. Record Vmax once initially. [N.J.A.C. 7:27- 8.13(h)]	None.
23	Flares used to comply with the provisions of 40 CFR Part 60 Subpart A, shall monitor these control device to ensure that they operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how the owner or operator shall monitor the Flare as a control device. The presence of a flare pilot flame shall be monitored using a thermocouple or any other equivalent device to detect the presence of a flame. [40 CFR 60.18(d)]	Other: The owner or operator shall monitor the flare as specified in the applicable subpart(s) of 40 CFR Part 60. [40 CFR 60.18(d)].	None.	None.
24	Flares used to comply with the provisions of 40 CFR Part 60 Subpart A, shall be operated at all times when emissions may be vented to them. [40 CFR 60.18(e)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	<p>The flares shall be designed and operated to 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. The reduction efficiency or parts per million by volume shall be established by an initial performance test to be completed no later than 180 days after the initial startup of the approved control system using the test methods specified in 40 CFR 60.754(d). The control device shall be operated within the parameter ranges established during the initial or most recent performance test. The operating parameters to be monitored are specified in 40 CFR 60.756.</p> <p>Stack test was performed on 05/04/10 - 05/05/10. See Edgeboro Disposal, PI 15773, TST090001. [40 CFR 60.752(b)(2)(iiiB)]</p>	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
26	<p>Each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) using an enclosed combustor shall calibrate, maintain, and operate according to the manufacturer's specifications, the following equipment.</p> <p>(1) 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. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity equal to or greater than 44 megawatts.</p> <p>(2) A device that records flow to or bypass of the control device. The owner or operator shall either:</p> <p>(i) Install, calibrate, and maintain a gas flow rate measuring device that shall record the flow to the control device at least every 15 minutes; or</p> <p>(ii) Secure the bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. A visual inspection of the seal or closure mechanism shall 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 60.756(b)]</p>	None.	None.	None.

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**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
27	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). [40 CFR 60.757(f)]	None.	None.	Submit a report: Annually. 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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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
28	<p>Except as provided in 40 CFR 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill subject to the provisions of this subpart shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756 as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries established during the most recent performance test are exceeded. (1) The following constitute exceedances that shall be recorded and reported under 40 CFR 60.757(f):</p> <p>(i) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28 degree C 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 60.758(c)(1)]</p>	None.	Other: See Applicable Requirement.[40 CFR 60.758(c)(1)].	None.
29	<p>Each owner or operator shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under 40 CFR 60.756. [40 CFR 60.758(c)(2)]</p>	None.	Other: See Applicable Requirement.[40 CFR 60.758(c)(2)].	None.

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Facility Specific Requirements**

Emission Unit: U2 EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

Operating Scenario: OS3 EDI - Edgeboro Landfill Gas sent to 8" Candlestick Flare (Emergency Operation)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The facility may operate the 8" EDI candlestick flare (CD9) only during emergency situations. An emergency situation is when the enclosed flares (CD7 & CD8) are out of service for scheduled maintenance or due to equipment malfunction and no landfill gas can be sent to Middlesex County Utilities Authority (MCUA) or any other power plant facility. From BOP110001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The facility shall keep records of the time and duration of candlestick flare usage and describe the emergency conditions necessitating operation.[N.J.A.C. 7:27-22.16(o)].	None.
2	SO2 <= 5.1 lb in any 60-minute period. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
3	SO2 <= 10.2 lb/hr at any instant. [N.J.A.C. 7:27- 7.2(b)2]	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
4	<p>Opacity: There shall be no visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the owner or operator 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. 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 manufacturer's 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)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log 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)]</p>	<p>None.</p>
5	<p>Maximum Gross Heat Input <= 32.4 MMBTU/hr (HHV) for the 8" EDI candlestick flare (CD9). From BOP100001. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Maximum Gross Heat Input: Monitored by calculations once initially. Maximum rated gross heat input is based on the manufacturer's specifications based on 3,250 scfm of landfill gas combusted and a nominal landfill gas composition of 50% of 1000 Btu/scf (natural gas). [N.J.A.C. 7:27-22.16(o)]</p>	<p>Maximum Gross Heat Input: 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)]</p>	<p>None.</p>

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Flare shall be designed to operate at a minimum destruction efficiency of 98% for NMOC. [N.J.A.C. 7:27-22.16(e)]	Other: The owner or operator shall review the design specification showing the minimum destruction efficiency each time the flare is modified or repaired.[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain readily accessible design records and modification and repair records.[N.J.A.C. 7:27-22.16(o)].	None.
7	The flare shall be equipped with the following: (1) Automatic relighting system to relight the flare pilots if extinguished; (2) Automatic system to shut-off the flow of landfill gas to the flare when combustion ceases and cannot be relighted; (3) Alarm system to signal the operator when the flare fails to relight or combustion ceases; (4) Minimum of one propane pilot; (5) Flame arrestor on inlet; (6) Condensate removal and disposal to system; and (7) Each utility flare shall be equipped with a pilot thermocouple to ensure the presence of a pilot flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) \leq 0.07 lb/hr. Maximum emission rate for the 8" EDI candlestick flare (CD9) based on maximum gross heat input (32.4 MMBtu/hr) and heat input based emission factor (0.00216 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NO _x (Total) \leq 2.27 lb/hr. Maximum emission rate for the 8" EDI candlestick flare (CD9) based on maximum gross heat input (32.4 MMBtu/hr) and heat input based emission factor (0.0701 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO \leq 12 lb/hr. Maximum emission rate for the 8" EDI candlestick flare (CD9) based on maximum gross heat input (32.4 MMBtu/hr) and heat input based emission factor (0.37 lb/MMBtu). From BOP100001. [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
11	SO2 <= 0.07 lb/hr. Maximum emission rate for the 8" EDI candlestick flare (CD9) based on maximum gross heat input (32.4 MMBtu/hr) and heat input based emission factor (0.00216 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
12	TSP <= 0.61 lb/hr. Maximum emission rate for the 8" EDI candlestick flare (CD9) based on maximum gross heat input (32.4 MMBtu/hr) and heat input based emission factor (0.0188 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.61 lb/hr. Maximum emission rate for the 8" EDI candlestick flare (CD9) based on maximum gross heat input (32.4 MMBtu/hr) and heat input based emission factor (0.0188 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U2 EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

Operating Scenario: OS4 EDI - Edgeboro Landfill Gas sent to 6" Candlestick Flare (Emergency Operation)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The facility may operate the 6" EDI candlestick flare (CD10) only during emergency situations. An emergency situation is when the landfill engines (E1 - E6) and the enclosed flares (CD7 & CD8) are out of service and no landfill gas can be sent to Middlesex County Utilities Authority (MCUA) or any other power plant facility. From BOP110001. [N.J.A.C. 7:27-22.16(a)]	None.	Other: The facility shall keep records of the time and duration of candlestick flare usage and describe the emergency conditions necessitating operation.[N.J.A.C. 7:27-22.16(o)].	None.
2	SO2 <= 5.1 lb in any 60-minute period. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.
3	SO2 <= 10.2 lb/hr at any instant. [N.J.A.C. 7:27- 7.2(b)2]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	Opacity: There shall be no visible emissions, exclusive of condensed water vapor, except for a period of not longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-22.16(e)]	Monitored by visual determination each month during operation, based on an instantaneous determination. For compliance with the opacity standard, the owner or operator 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. 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 manufacturer's 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)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The owner or operator shall log 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)]	None.
5	Maximum Gross Heat Input <= 17.6 MMBTU/hr (HHV) for the 6" EDI candlestick flare (CD10). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	Flare shall be designed to operate at a minimum destruction efficiency of 98% for NMOC. [N.J.A.C. 7:27-22.16(e)]	Other: The owner or operator shall review the design specification showing the minimum destruction efficiency each time the flare is modified or repaired..[N.J.A.C. 7:27-22.16(o)].	Other: The owner or operator shall maintain readily accessible design records and modification and repair records.[N.J.A.C. 7:27-22.16(o)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	The flare shall be equipped with the following: (1) Automatic relighting system to relight the flare pilots if extinguished; (2) Automatic system to shut-off the flow of landfill gas to the flare when combustion ceases and cannot be relighted; (3) Alarm system to signal the operator when the flare fails to relight or combustion ceases; (4) Minimum of one propane pilot; (5) Flame arrestor on inlet; (6) Condensate removal and disposal to system; and (7) Each utility flare shall be equipped with a pilot thermocouple to ensure the presence of a pilot flame. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
8	VOC (Total) <= 0.04 lb/hr. Maximum emission rate for the 6" EDI candlestick flare (CD10) based on maximum gross heat input (17.6 MMBtu/hr) and heat input based emission factor (0.00216 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
9	NOx (Total) <= 1.23 lb/hr. Maximum emission rate for the 6" EDI candlestick flare (CD10) based on maximum gross heat input (17.6 MMBtu/hr) and heat input based emission factor (0.0699 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
10	CO <= 6.49 lb/hr. Maximum emission rate for the 6" EDI candlestick flare (CD10) based on maximum gross heat input (17.6 MMBtu/hr) and heat input based emission factor (0.369 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
11	SO2 <= 0.04 lb/hr. Maximum emission rate for the 6" EDI candlestick flare (CD10) based on maximum gross heat input (17.6 MMBtu/hr) and heat input based emission factor (0.00227 lb/MMBtu). From BOP100001. [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
12	TSP <= 0.33 lb/hr. Maximum emission rate for the 6" EDI candlestick flare (CD10) based on maximum gross heat input (17.6 MMBtu/hr) and heat input based emission factor (0.0188 lb/MMBtu). From BOP100001. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	PM-10 (Total) <= 0.33 lb/hr. Maximum emission rate for the 6" EDI candlestick flare (CD10) based on maximum gross heat input (17.6 MMBtu/hr) and heat input based emission factor (0.0188 lb/MMBtu). From BOP100001. [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**

Emission Unit: U2 EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

Operating Scenario: OS5 Control System (Treatment System)

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>The owner or operator shall operate and maintain the Landfill Gas "Treatment System", in accordance with the Alternative Operating Scenario (AOS) dated August 13, 2008, as amended, when not flaring landfill gas.</p> <p>The "Treatment System" (as defined in the Consent Decree (CD) Section III: Definitions) shall mean a system that has an absolute filtration rating of 10 microns or less, lowers the water dew point of the landfill gas by at least 20 degrees Fahrenheit through a de-watering process, and compresses the landfill gas. However, in no event shall the system lower the temperature of the landfill gas to a point that would cause the gas to freeze. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
2	<p>The owner or operator shall operate the "Treatment System"'s (CD11) Pressure Discharge Blower at greater than 0 psig. From BOP100001. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Monitored by pressure measurement device continuously. The pressure shall be monitored with a pressure switch that is located after the SAG Siloxane Removal vessels and notifies a plant operator (by audio alarm and/or phone communication to an operator carried cell phone) of an exceedance condition (i.e. the set point of the switch has been tripped).</p> <p>If the pressure of the gas in the "Treatment System" monitored after the polishing filter vessel is not greater than 0 psig, the electricity generation processes will be shut down and an investigation of the equipment will be performed and corrective actions implemented prior to startup. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Recordkeeping by data acquisition system (DAS) / electronic data storage continuously and any corrective action taken to restore the pressure back to greater than 0 psig shall be recorded daily. [N.J.A.C. 7:27-22.16(o)]</p>	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	The owner or operator shall ensure that all collected landfill gas routed to the landfill gas-to-energy ("GTE") facility is treated by the "Treatment System" (CD11) prior to being combusted in the GTE engines or transfer to MCUA. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	The owner or operator shall monitor the landfill gas flow to the "Treatment System" (CD11). Landfill gas that bypasses the "Treatment System" shall be monitored or the owner or operator shall secure any and all valves that would allow the "Treatment System" to be bypassed. [N.J.A.C. 7:27-22.16(a)]	Monitored by fuel flow/firing rate instrument continuously, based on a 24 hour rolling average based on a 1 hour block average with readings every 15 minutes. Valves that are closed to prevent a bypass shall have the seal monitor monthly. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Monthly inspections of valve seals shall be recorded each month and shall include the name of the inspector, date of the inspection, results of the inspection and any corrective action that was taken. [N.J.A.C. 7:27-22.16(o)]	None.
5	The "Treatment System" (CD11) shall have an absolute filtration rating of 10 microns or less (from the Consent Decree (CD)) and will be operated according to manufacturer's specifications. From BOP100001. [N.J.A.C. 7:27-22.16(a)]	Monitored by pressure drop instrument continuously, based on a 24 hour rolling average based on a 1 hour block average with readings every 15 minutes. The pressure drop monitor shall measure the pressure drop once every 15 minutes. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The system shall record the pressure drop every 15 minutes and the calculated hourly and 24 average pressure drops. [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
6	<p>Each owner or operator seeking to demonstrate compliance with 40 CFR 60.752(b)(2)(iii) using a device other than an open flare or an enclosed combustor shall provide information satisfactory to the Administrator as provided in 40 CFR 60.752(b)(2)(i)(B) describing the operation of the control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The Administrator shall review the information and either approve it, or request that additional information be submitted. The Administrator may specify additional appropriate monitoring procedures.</p> <p>The facility shall route the collected gas to a treatment system (the "treatment system", as referenced) that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements 40 CFR 60.752 (b)(2)(iii)(A) or (B). [40 CFR 60.756(d)]</p>	None.	None.	None.
7	<p>Pressure Drop: The permittee shall determine the pressure drop value for the "Treatment System" (CD11) after one year of operation and will submit a modification to the Department to incorporate the limit into the permit. [N.J.A.C. 7:27-22.16(a)] & [40 CFR 60.756(d)]</p>	<p>Pressure Drop: Monitored by pressure drop instrument continuously, based on a 24 hour rolling average based on a 1 hour block average with readings every 15 minutes. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Pressure Drop: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The system shall record the pressure drop every 15 minutes and the calculated hourly and 24 average pressure drops. The owner or operator shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 60.758(o)]</p>	<p>Other (provide description): As per the approved schedule. Submit a modification to the Department after one year of "Treatment System" operation. [N.J.A.C. 7:27-22.16(o)]</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
8	Temperature: The "Treatment System" must lower the water dew point of the landfill gas by at least 20 degree Fahrenheit. The system shall not lower the temperature of the landfill gas to a point that would cause the gas to freeze, equipment damage, or contravene good operational practice. [N.J.A.C. 7:27-22.16(a)] & [40 CFR 60.756(d)]	Temperature: Monitored by temperature instrument continuously, based on a 24 hour rolling average based on a 1 hour block average with readings every 15 minutes. [N.J.A.C. 7:27-22.16(o)]	Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The system shall record the temperature every 15 minutes and the calculated hourly and 24-hour average. The owner or operator shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756. [N.J.A.C. 7:27-22.16(o)] &. [40 CFR 60.758(o)]	None.
9	An owner or an operator of a landfill gas treatment system must submit a semi-annual report to EPA describing the monitoring and operational practices. [N.J.A.C. 7:27-22.16(a)] & [40 CFR 60.756(d)]	None.	None.	Submit a report: Every six months on January 1 and July 1 of each year but started no sooner than three months after the effective date of the approved permit. The first report shall include data for the three months preceding the reporting half-year, if applicable. Submit semi-annual report to: Air Compliance Branch EPA Region 2 290 Broadway New York, New York 10007-1886. [40 CFR 60.756(d)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U3 EDI Standby Emergency Generator, subject to MACT Subpart ZZZZ

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Federal Requirements: 40 CFR 63 Subpart ZZZZ [None]	None.	None.	None.
2	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.
3	Particulate Emissions <= 3.06 lb/hr. Particulate emission limit from the combustion of fuel based on rated heat input of source. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.
4	Sulfur Content in Fuel <= 500 ppmw (0.05% by weight). Effective July 1, 2014 through June 30, 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.
5	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.
6	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.
7	Generator fuel limited to #2 fuel oil. [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
8	<p>Each 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:</p> <ol style="list-style-type: none"> 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] 	<p>Monitored by hour/time monitor continuously.</p> <p>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:</p> <p>Fuel Usage (Gallons per month) = (Hours of operation per month) x (Maximum emergency generator fuel usage rate in gallons per hour).</p> <p>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)]</p>	<p>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:</p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. <p>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]</p>	<p>None.</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	<p>This emergency generator shall not be used:</p> <p>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</p> <p>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.</p> <p>[N.J.A.C. 7:27-19.2(d)]</p>	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
10	Hours of Operation <= 100 hr/yr for testing and maintenance. The limit on the allowable hours for testing and maintenance in accordance with the documentation from manufacturer, the vendor, or the insurance company associated with the engine. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [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	Maximum Gross Heat Input <= 5.1 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Keep records showing maximum heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
12	VOC (Total) <= 0.09 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
13	NOx (Total) <= 1.12 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
14	CO <= 0.24 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
15	SO2 <= 0.07 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
16	TSP <= 0.08 tons/yr. Annual emission limit based on the permitted hours per year of operation. [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
17	PM-10 (Total) <= 0.08 tons/yr. Annual emission limit based on the permitted hours per year of operation. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
18	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall change oil and filter every 500 hours of operation or annually, whichever comes first, as prescribed in Table 2c, item 1a to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall change oil and filter every 500 hours of operation or annually, whichever comes first. The owner or operator has an option of utilizing an oil analysis program, at the same frequency specified for changing the oil, in order to extend the specified oil change requirement, per 40 CFR 63.6625(j). The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(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 records of the oil and filter change. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
19	The owner or operator of an emergency CI RICE <= 500 HP or black start CI RICE constructed or reconstructed before June 12, 2006 shall inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary, as prescribed in Table 2c, item 1b and 1c to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6602]	Other: The owner or operator shall inspect air cleaner every 1000 hours or annually, whichever comes first and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first. The owner or operator must develop and follow a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(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 records of the maintenance procedures and air cleaner, belt and hoses replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)(2)]	None.
20	The engine must be in compliance with all applicable emission limitations and operating limitations in Subpart ZZZZ of 40 CFR 63 at all times. [40 CFR 63.6605(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
21	At all times the owner or operate must operate and maintain a RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. [40 CFR 63.6605(b)]	None.	None.	None.
22	An owner or operator of an existing stationary emergency or black start RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or the owner or operator must develop a maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]	Other: Monitored according to the manufacturer's emission-related written instructions or the maintenance plan developed by the owner or operator. [40 CFR 63.6625(e)].	Other: The owner or operator must keep records of the maintenance procedures. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.
23	The owner or operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h)]	Other: Monitored according to the manufacturer's emission-related operation and maintenance instructions; or the maintenance plan developed by the owner or operator which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions, in accordance with Table 6 item 9 to Subpart ZZZZ of 40 CFR 63. [40 CFR 63.6640(a)].	Other: The owner or operator must keep records of the maintenance procedures and replacements events. Each record must be readily accessible for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.6660(c) and 40 CFR 63.10(b)(1). [40 CFR 63.6655(e)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
24	<p>The owner or operator may operate an emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator 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 RICE beyond 100 hours per year. The owner or operator may operate an emergency RICE up to 50 hours per year in non-emergency situations as allowed by 40 CFR 63.6640(f)(1)(iii) but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. [40 CFR 63.6640(f)(2i)]</p>	<p>Monitored by hour/time monitor continuously. The owner or operator of an emergency stationary internal combustion engine must install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f)]</p>	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system annually. The owner or operator must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f)(1)]</p>	<p>None.</p>
25	<p>The owner or operator shall comply with the General Provisions as shown in Table 8 to Subpart ZZZZ of 40 CFR 63 that apply to an existing emergency CI RICE <= 500 HP or black start RICE constructed or reconstructed before June 12, 2006 and located at a major source of HAP. [40 CFR 63.6665]</p>	<p>None.</p>	<p>None.</p>	<p>None.</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U3 EDI Standby Emergency Generator, subject to MACT Subpart ZZZZ

Operating Scenario: OS1 EDI Standby generator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	VOC (Total) <= 1.81 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	NOx (Total) <= 21.7 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	CO <= 4.71 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	SO2 <= 1.45 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	TSP <= 1.45 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
6	PM-10 (Total) <= 1.45 lb/hr. Maximum emission rate. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

The Defendants have asserted numerous factual and legal defenses contesting the allegations of EPA and NJDEP and the Parties have agreed to enter into this Consent Decree in good faith to amicably resolve the matters raised in the Complaint without any admission of fact or law.

The Complaint against Defendants alleges that they are or were an owner or an operator of regulated air emissions sources at and adjacent to the Edgeboro landfill (the “Edgeboro Landfill”), a municipal solid waste landfill located near Edgeboro Road in East Brunswick, New Jersey, which includes a gas collection and control system (“GCCS”), formerly owned and operated by NEO, and a gas-to-energy plant, formerly owned and operated by O’Brien and located on adjacent property. Edgeboro, Inc. is the owner of the Edgeboro Landfill. EDI is the the owner and operator of the current GCCS installed within the Edgeboro Landfill pursuant to an Alternative Operating Scenario (“AOS”), which was conditionally approved by EPA on August 13, 2008, and amended on July 13, 2009, February 12, 2010 and April 14, 2010.¹ The Complaint also alleges that Defendants and the Edgeboro Landfill are and were subject to the CAA and regulations promulgated by EPA pursuant to the CAA for municipal solid waste landfills; and the Air Pollution Control Act and regulations promulgated by New Jersey through the NJDEP. The Complaint further alleges that Defendants failed to comply with the CAA and the Air Pollution Control Act, and their implementing regulations, by failing to monitor or improperly monitoring air emissions from the Edgeboro Landfill, failing to comply with

¹ Defendant EDI asserts that in August of 1987, the Edgeboro Landfill reached its permitted capacity. Defendant EDI asserts that it is the entity responsible for closure of the landfill under New Jersey law.

operational standards for the Edgeboro Landfill and its GCCS, failing to submit required plans, and failing to keep required records and submit required reports.

The Parties have further agreed that nothing in the Complaint or this Consent Decree is, or shall be construed to be, a determination by EPA or NJDEP that the Edgeboro Landfill and the Middlesex County Landfill are, or are not, a single landfill or a single source of air emissions.

The Parties recognize, and the Court by entering this Consent Decree finds, that this Consent Decree has been negotiated by the Parties in good faith and will avoid litigation between the Parties and that this Consent Decree is fair, reasonable, and in the public interest.

NOW, THEREFORE, before the taking of any testimony, without the adjudication or admission of any issue of fact or law except as provided in Section I, and with the consent of the Parties, IT IS HEREBY ADJUDGED, ORDERED, AND DECREED as follows:

I. JURISDICTION AND VENUE

1. This Court has jurisdiction over the subject matter of this action, and over the Parties, pursuant to 28 U.S.C. §§ 1331, 1345, and 1355, and Section 113 of the Act, 42 U.S.C. § 7413. Venue lies in this District pursuant to Section 113(b) of the Act, 42 U.S.C. § 7613(b), and 28 U.S.C. §§ 1391(b) and (c) and 1395(a), because the allegations set forth in the Complaint relate to actions which occurred in, and Defendants conduct business in, this judicial district. All Parties consent to the Court's jurisdiction over this Decree and any such action to enforce this Decree. Further, all Parties consent to venue in this judicial district.

2. For purposes of this Consent Decree, Defendants agree that the Complaint states claims upon which relief may be granted pursuant to Section 113 of the Act, 42 U.S.C. § 7413.

II. APPLICABILITY

3. Except as provided in Paragraph 5 of this Consent Decree, the obligations of this Consent Decree apply to and are binding upon the United States, New Jersey, and upon Defendants and any successors, assigns, or other entities or persons otherwise bound by law.

4. Edgeboro, Inc. is the owner of the Edgeboro Landfill. EDI is the owner and operator of the current GCCS installed within the Edgeboro Landfill. Effective November 20, 2008, that portion of the GCCS which lies within the Edgeboro Landfill property and all legal right to control the landfill gas was transferred from NEO to EDI. NEO retained ownership over an enclosed flare, two open flares and blowers that are situated at the flare station on the adjoining property where the O'Brien gas-to-energy facility is located. EDI, pursuant to a contractual arrangement with NEO, dated November 20, 2008, has the exclusive right to temporarily use and operate the equipment at the flare station in conjunction with its construction of the current GCCS at the Edgeboro Landfill. As of April 22, 2010, O'Brien continued to own the gas-to-energy facility assets, but the gas-to-energy facility is no longer operating.

5. Consistent with Paragraphs 3 and 4 of this Consent Decree, the Compliance Requirements set forth in Section V of this Decree, the Reporting Requirements set forth in Section VI of this Decree, and the Stipulated Penalty provisions set forth in Section VII of this Decree (except the stipulated penalty provision of this Decree pertaining to late payment of the civil penalty) shall be applicable to Defendants EDI and Edgeboro, Inc. It is the intention of all parties to this Decree that EDI and Edgeboro, Inc. be solely responsible for all prospective

implementation of Section V (Compliance Requirements), Section VI (Reporting Requirements) and Section VII (Stipulated Penalties, except for the stipulated penalty provision of this Decree pertaining to late payment of the civil penalty) of this Decree and for prospective compliance with all operational, monitoring, recordkeeping and reporting requirements applicable to the Edgeboro Landfill as set forth in the Act and regulations promulgated pursuant to the Act. Notwithstanding the foregoing, if, as of the date of the required submission under subparagraph 20(c) of Section V (Compliance Requirements), NEO and/or O'Brien still own any equipment regulated under Permit No. BOP 060001-17901 (or any modifications or revisions or subsequent versions of it), then NEO and/or O'Brien shall be subject to the compliance requirements as specified under subparagraph 20(c).

6. The Civil Penalty provisions in Section IV of this Consent Decree, and the Stipulated Penalty provisions of this Decree pertaining to late payment of the civil penalty, shall be applicable to all Defendants.

7. No transfer of ownership or operation of the Edgeboro Landfill, whether in compliance with the procedures of this Paragraph or otherwise, shall relieve Defendants EDI or Edgeboro, Inc. of their obligation to ensure that the terms of the Consent Decree applicable to each, are implemented. At least 30 Days prior to such transfer, EDI and Edgeboro, Inc. shall provide a copy of this Decree to the proposed transferee and shall simultaneously provide written notice of the prospective transfer, together with a copy of the proposed written agreement, to EPA Region 2, the United States Department of Justice, and the NJDEP, in accordance with the Notice Section of this Decree. Any attempt to transfer ownership or operation of the Edgeboro

Landfill, or any part of the Edgeboro Landfill, without complying with this Paragraph, constitutes a violation of this Decree.

8. Defendants EDI and Edgeboro, Inc. shall provide a copy of this Consent Decree to all officers, employees, and agents whose duties reasonably include compliance with any provision of this Decree. EDI or Edgeboro, Inc. shall provide a copy of this Consent Decree to any contractor retained to perform work required under Section V of this Decree (“Compliance Requirements”). Defendant EDI and Edgeboro, Inc. shall condition any such contract upon performance of the work in conformity with the terms of this Decree.

9. In any action to enforce this Consent Decree, Defendants shall not raise as a defense the failure by any of its officers, directors, employees, agents, or contractors to take any actions necessary to comply with the provisions of this Decree.

III. DEFINITIONS

10. Terms used in this Consent Decree that are defined in the Act or in regulations promulgated pursuant to the Act shall have the meanings assigned to them in the Act or such regulations, unless otherwise provided in this Decree. Whenever the terms set forth below are used in this Decree, the following definitions shall apply:

- a. “Complaint” shall mean the Complaint filed by the United States and New Jersey in this action;
- b. “Consent Decree” or “Decree” shall mean this Decree and all appendices attached hereto;
- c. “Date of Lodging” shall be the date upon which this Consent Decree is filed with the Court as part of a Notice of Lodging, as recorded on the Court’s docket,

and shall precede both the public comment period required by this Decree and a Motion to Enter the Decree;

d. "Day" shall mean a calendar day unless expressly stated to be a business day. In computing any period of time under this Consent Decree, where the last day would fall on a Saturday, Sunday, or any State of New Jersey or federal holiday, the period shall run until the close of business of the next business day. "Business Day" shall mean any calendar day except (i) Saturday, (ii) Sunday or (iii) federal or State of New Jersey holiday;

e. "Defendants" shall mean Edgeboro Disposal, Inc. ("EDI"), Edgeboro, Inc., NEO Edgeboro, LLC ("NEO"), and O'Brien Biogas IV, LLC ("O'Brien");

f. "Edgeboro Landfill," as used in this Consent Decree, shall mean a solid waste landfill, which is owned by Defendant Edgeboro, Inc., and which formerly received and now contains municipal solid waste; and includes the GCCS, which is currently owned and operated by Defendant EDI, located near Edgeboro Road in East Brunswick, New Jersey;

g. "Effective Date" shall mean the date upon which this Consent Decree is entered by the Court or a motion to enter the Decree is granted, whichever occurs first, as recorded on the Court's docket;

h. "EPA" shall mean the United States Environmental Protection Agency and any of its successor departments or agencies;

i. "Landfill Gas Collection and Control System" or "GCCS" shall mean the entire system installed at the Edgeboro Landfill to collect and control landfill gas, currently owned and operated by Defendant EDI;

- j. "Middlesex County Landfill" shall mean a solid waste landfill, which receives municipal solid waste, located near Edgeboro Road in East Brunswick, New Jersey, and currently owned and operated by the Middlesex County Utilities Authority;
- k. "New Jersey" or "State" shall mean the State of New Jersey, acting on behalf of the New Jersey Department of Environmental Protection;
- l. "NJDEP" shall mean the New Jersey Department of Environmental Protection and any of its successor departments or agencies;
- m. "Paragraph" shall mean a portion of this Consent Decree identified by an arabic numeral;
- n. "Parties" shall mean the United States, New Jersey, and Defendants;
- o. "Section" shall mean a portion of this Consent Decree identified by a title and roman numeral; and
- p. "Treatment System" shall mean a system that has an absolute filtration rating of 10 microns or less, lowers the water dew point of the landfill gas by at least 20 degrees Fahrenheit through a de-watering process, and compresses the landfill gas. However, in no event shall the system lower the temperature of the landfill gas to a point that would cause the gas to freeze.

IV. CIVIL PENALTY

11. The Defendants shall pay a civil penalty of \$750,000 in accordance with this Section.

12. Within 30 Business Days after the Defendants receive notice that this Consent Decree has been lodged, each Defendant shall deposit the amount specified below into an escrow account bearing interest on commercially reasonable terms, in a federally-chartered bank (the "Escrow Account").

NEO: \$530,000

O'Brien: \$40,000

EDI: \$180,000

Such monies shall remain in escrow until entry of the Decree. If the Decree is not entered by the Court, and the time for any appeal of that decision has run, or if the Court's denial of entry is upheld on appeal, each amount of money placed in escrow, together with accrued interest thereon, shall be returned to each respective Defendant. If the Decree is entered by the Court, each Defendant shall, within 15 Days thereof, cause the monies (including all accrued interest) it has placed in the Escrow Account (the "civil penalty") to be released and disbursed in the parts set forth in Paragraphs 13 through 15, below, to the United States and New Jersey, in payment of the civil penalty under this Decree. To the extent a Defendant makes an advance payment of its portion of the civil penalty, its escrow obligation shall be reduced by the amount of such advance payment.

13. O'Brien and EDI shall each pay half of their portion of the civil penalty (plus accrued interest on the Escrow Account), due to the United States, by FedWire Electronic Funds Transfer ("EFT") to the U.S. Department of Justice Financial Litigation Unit of the U.S. Attorney's Office for the District of New Jersey, in accordance with written EFT instructions to be provided by the United States to Defendants following lodging of the Consent Decree. NEO

shall pay \$265,000 to the U.S. Department of Justice Financial Litigation Unit of the U.S. Attorney's Office for the District of New Jersey, in accordance with written EFT instructions to be provided by the United States to Defendants following lodging of the Consent Decree. At the time of payment, each Defendant shall send a copy of the EFT authorization form and the EFT transaction record, together with a transmittal letter, which shall state that the payment is for the civil penalty owed by that Defendant to the United States pursuant to the Decree in this case, and shall reference the civil action number and DOJ case number 90-5-2-1-09328, to the United States in accordance with the Notice Section of this Decree, by email to acctreceivable.CINWD@epa.gov, and by mail to:

EPA Cincinnati Finance Office
26 Martin Luther King Drive
Cincinnati, Ohio 45268

14. Defendants EDI and O'Brien shall pay the other half of their portion of the civil penalty (plus accrued interest on the Escrow Account), due to the State of New Jersey, by check made payable to "Treasurer, State of New Jersey" and remit to:

Administrator, Air Compliance & Enforcement
New Jersey Department of Environmental Protection
P.O. Box 422
Trenton, New Jersey 08625-0422

15. NEO paid \$250,000 to the State of New Jersey on or about August 31, 2009 pursuant to a Stipulation of Partial Settlement (attached hereto as Appendix 1); and owes the State of New Jersey an additional \$15,000. Defendant NEO shall pay the remaining \$15,000 of its portion of the civil penalty due to the State of New Jersey (plus accrued interest on the Escrow Account) by check made payable to "Treasurer, State of New Jersey" and remit to:

Administrator, Air Compliance & Enforcement
New Jersey Department of Environmental Protection
P.O. Box 422
Trenton, New Jersey 08625-0422

16. Defendants shall not deduct any penalties paid under this Consent Decree pursuant to this Section or the Stipulated Penalties Section in calculating its Federal or State income tax.

V. COMPLIANCE REQUIREMENTS

17. Defendants EDI and/or Edgeboro, Inc. shall comply with all permits issued for the Edgeboro Landfill and its GCCS pursuant to the Act, N.J.A.C. 7:27-8.1 et seq. and N.J.A.C. 7:27-22.3 et seq., with all terms and conditions of the AOS conditionally approved by EPA on August 13, 2008 and amended on July 13, 2009, February 12, 2010 and April 14, 2010, and with all applicable requirements in the following regulations:

a. “New Source Performance Standards for Municipal Solid Waste Landfills,” 40 C.F.R. Part 60, Subpart WWW, 40 C.F.R. §§ 60.750—60.759 (Landfill NSPS); and

b. “National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills,” 40 C.F.R. Part 63, Subpart AAAA; 40 C.F.R. §§ 63.1930—63.1990 (Landfill MACT).

While the AOS is in effect, compliance with any term or condition of the AOS, as amended, shall constitute compliance with the corresponding provision(s), if any, of the Landfill NSPS and MACT, for which the alternative is approved.

18. **Specific Compliance Requirements.** In addition to the applicable compliance requirements set forth in Paragraph 17 of this Decree, Defendants EDI and Edgeboro, Inc. shall comply with the following specific requirements, which, if not implemented prior to the Effective Date of this Consent Decree, shall be implemented no later than 30 Days from the Effective Date of the Consent Decree, or if specified, by the date set forth in the specific subparagraph:

a. Defendants EDI and Edgeboro, Inc. shall operate and maintain the Edgeboro Landfill GCCS, including the horizontal collectors and all active vertical wells, in accordance with the AOS, as amended, and with all applicable requirements in the Landfill NSPS and MACT. The requirements of this subparagraph shall not apply to inactive, vertical wells that were capped, and/or connected to a horizontal collector, with the wellhead permanently removed in accordance with the AOS, as amended.

b. Defendants EDI and Edgeboro, Inc. shall comply with the provisions in 40 C.F.R. § 60.755(b) (regarding installation of GCCS wells), 40 C.F.R. § 60.757(f)(6) (regarding annual reporting of new wells or GCCS expansions), 40 C.F.R. § 60.758(d) (regarding keeping up-to-date plot maps and records of existing and planned collectors), and 40 C.F.R. § 60.753(b)(3) (regarding EPA approval for decommissioning wells).

i. **Active Vertical Wells.** Defendant EDI may replace any non-performing active vertical well, which has not been connected to a horizontal collector, with a newly installed and adjacent vertical well, or take other corrective action which complies with the Landfill NSPS and MACT, upon written notice to EPA and NJDEP and without further approval. For purposes of this subparagraph, a “non-performing active vertical well” is any

vertical gas collection well at the Edgeboro Landfill that consistently exceeds one or more applicable operational or performance standards of the Landfill NSPS and MACT, or any EPA-approved alternative operational or performance standards, such that continuous compliance with those standards cannot be assured. For purposes of this subparagraph, a newly installed vertical well is “adjacent” to a non-performing vertical well if it is located within ten (10) feet from the approximate physical center of the non-performing vertical well.

For the period after termination of the AOS, as amended, Defendant EDI shall submit a written request to EPA in accordance with Section XIII of this Consent Decree to decommission non-performing active vertical wells, in accordance with 40 C.F.R. § 60.753(b)(3). Defendant EDI shall continue to monitor the non-performing active vertical well or take such other corrective action which complies with the Landfill NSPS and MACT, until EPA approves, in writing, decommissioning of the well. Provided that the adjacent newly installed vertical well or other corrective action is operational and is in compliance with all applicable requirements in the Landfill NSPS and MACT, from the time a written request to decommission is made until EPA approves the decommissioning in writing, the applicable operational standards in the Landfill NSPS and MACT will be deemed to be satisfied with respect to the corresponding non-performing active vertical well during that time.

ii. Horizontal Collectors. Wellhead and surface monitoring at each end of each horizontal collector at the Edgeboro Landfill shall be conducted in accordance with the applicable requirements of the Landfill NSPS and MACT. If required pursuant to 40 C.F.R. § 60.755(c)(4)(v), EDI or Edgeboro, Inc. shall install a side slope well or wells adjacent to a horizontal collector, at the location(s) most likely to maximize gas collection in the

area of a monitored exceedance, e.g., upslope from the horizontal collector wellhead near the berm liner interface. For purposes of this subparagraph, a side slope well is adjacent to a horizontal collector if it is located within ten (10) feet from the approximate physical center of the horizontal collector.

In the event that a horizontal collector (or a portion thereof) becomes damaged due to forces beyond EDI's or Edgeboro, Inc.'s control, including settlement associated with the construction of landfill cells in the overlying Middlesex County landfill area, such that the ability of the horizontal collector (or a portion thereof) to collect a sufficient amount of landfill gas is significantly impaired, EDI or Edgeboro, Inc. shall close and decommission that horizontal collector (or a portion thereof), with capping and valve closure, or other measure(s). EDI or Edgeboro, Inc. shall submit written notification to EPA and the State of any closing and decommissioning of a horizontal collector (or a portion thereof) within five (5) business days of such closing and decommissioning.

c. Defendants EDI and Edgeboro, Inc. shall conduct quarterly monitoring of methane concentrations at the surface of the Edgeboro Landfill in accordance with the requirements in the Landfill NSPS and MACT (see 40 C.F.R. §§ 60.753(d) and 60.755(c)), including, but not limited to, along the entire shared perimeter of the Edgeboro Landfill and the Middlesex County Landfill and within all areas located on the EDI side of the physical demarcation referred to in Paragraph 18.j. of this Section and where visual observations indicate elevated concentrations of landfill gas such as distressed vegetation and cracks or seeps in the cover. For purposes of this subparagraph only, and consistent with the AOS, as amended, the Edgeboro Landfill surface does not include areas on the Middlesex County Utilities Authority's

("MCUA") side of the physical demarcation referred to in Paragraph 18.j. of this Section. EDI or Edgeboro, Inc. shall immediately notify USEPA and NJDEP at anytime they are notified, or become aware, that MCUA is relocating the physical demarcation of the boundary if EDI or Edgeboro, Inc. believe the physical demarcation of the boundary is incorrect or inappropriate (see Paragraph 64 of this Decree).

d. Defendants EDI and Edgeboro, Inc. shall take appropriate corrective action for each monitored exceedance, as required under the Landfill NSPS and MACT. A monitored exceedance shall mean any surface methane reading of 500 parts per million or more above background at any location, as provided in the Landfill NSPS and MACT.

e. Defendants EDI and Edgeboro, Inc. shall keep complete records of the surface monitoring required by Paragraph 18.c. of this Section, and of any corrective action(s) taken under Paragraph 18.d. of this Section. To be deemed complete, the records shall, at a minimum, include: the date that each exceedance was first monitored, the location of each monitored exceedance and the monitored methane concentration, and a description of all corrective action(s) taken to address each exceedance, including the date(s) such corrective action is initiated, the date(s) the location of the exceedance is re-monitored, and the re-monitored methane concentration.

f. Defendants EDI and Edgeboro, Inc. shall operate the GCCS with negative pressure at each horizontal collector and active vertical well, consistent with 40 C.F.R. § 60.753(b). This subparagraph and the rule cited shall not apply to inactive vertical wells that were capped or connected to a horizontal collector.

g. Defendants EDI and Edgeboro, Inc. shall operate each horizontal collector and active vertical well in the GCCS with a landfill gas temperature less than 55 degrees Celsius and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent, as provided in 40 C.F.R. § 60.753(c), or within any alternative parameters approved by EPA under § 60.753(c). This subparagraph and the rules cited shall not apply to inactive vertical wells that were capped and/or connected to a horizontal collector with the wellhead permanently removed.

h. Defendants EDI and Edgeboro, Inc. shall conduct monthly monitoring at each end of each horizontal collector and active vertical wells, for pressure, temperature, and nitrogen or oxygen levels, in accordance with 40 C.F.R. § 60.755(a)(3) and (5). The requirements of this subparagraph and the rule cited shall not apply to inactive vertical wells that were capped and/or connected to a horizontal collector with the wellhead permanently removed.

i. Defendants EDI and Edgeboro, Inc. shall implement a program to monitor on a monthly basis for the integrity of the Edgeboro Landfill cover on the Edgeboro Landfill's side of the physical demarcation referred to in Paragraph 18.j. of this Section, and shall implement landfill cover repairs as necessary, as provided in 40 C.F.R. § 60.755(c)(5). For purposes of this subparagraph only, the Edgeboro Landfill cover does not include areas where the cover of the Edgeboro Landfill is inaccessible.

j. Defendants EDI and Edgeboro, Inc. shall not interfere with the physical demarcation of the boundary of the Edgeboro Landfill and the Middlesex County Landfill, to be installed by the MCUA pursuant to a separate consent decree entered into by

MCUA with the Plaintiffs and pursuant to any separate agreement that may be entered between EDI and MCUA.

k. Defendant EDI shall notify EPA and NJDEP in writing, with a copy to MCUA, of the completion date of Stage 6 of the AOS deviation, and of the completion date of construction of the horizontal gas collection and control system, within ten (10) business days of such completion date(s), in accordance with the Notice Section of this Consent Decree.

l. As part of Defendants EDI's and Edgeboro, Inc.'s submission of a complete preconstruction or operating permit application for any applicable flare, collection and/or control system, or treatment system, EDI and Edgeboro, Inc. shall submit to EPA and NJDEP in the timeframes set forth in Paragraph 20 and in accordance with the Notice Section of this Consent Decree, the following documentation:

i. A full copy of all permit applications pursuant to Section XIII of this Consent Order; and

ii. The manufacturer's written design specifications for the Treatment System at the Edgeboro Landfill, which demonstrates conformance with the Treatment System definition in Section III of this Consent Decree. The specifications shall include, but not be limited to, the minimum pressure drop across the filtration system and the minimum landfill gas temperature reduction across the de-watering system.

m. Except as provided by subparagraph 18n. below, Defendants EDI and Edgeboro, Inc. shall ensure that all collected landfill gas routed to a gas-to-energy ("GTE") facility at or adjacent to the Edgeboro Landfill is treated by a Treatment System, as defined in Section III of this Consent Decree, prior to being combusted at such facility. In accordance with

Paragraph 20.b. of this Section, EDI and Edgeboro, Inc. shall apply for, and take all necessary action to obtain, a Title V operating permit to incorporate the requirements in this subparagraph into such permit.

n. While this Consent Decree is in effect, Defendants EDI and Edgeboro, Inc. may transfer landfill gas collected by the Edgeboro Landfill GCCS to the MCUA for environmentally beneficial use at MCUA's GTE facility in Sayreville, New Jersey. However, EDI and Edgeboro, Inc. shall not transfer landfill gas to MCUA if EDI and Edgeboro, Inc. do not have approval from MCUA to make such transfer, or if the transfer would cause or allow MCUA to exceed or violate any of its permitted limits, operating scenarios, terms or conditions applicable to MCUA's GTE facility.

EDI and Edgeboro, Inc. shall keep and maintain records of all transfers of landfill gas to MCUA. These records shall include the date(s) that any landfill gas is transferred, and for each date identified, the duration of all periods in which landfill gas is being transferred and the gas flow rate of the landfill gas being transferred.

o. In addition to the records required to be kept under this Section, Defendants EDI and Edgeboro, Inc. shall keep all records as required by the Landfill NSPS and MACT.

19. Permits. Where any compliance obligation under this Section requires Defendants EDI and Edgeboro, Inc. to obtain a federal, State, or local permit or approval, or a modification to such permit or approval, Defendants EDI and Edgeboro, Inc. shall submit timely and administratively complete applications and take all other actions necessary to obtain all such permits or approvals, or modifications thereto.

In the event EDI or Edgeboro, Inc. constructs and/or plans to route landfill gas to a new GTE plant in conjunction with EDI's GCCS, EDI and/or Edgeboro, Inc. shall ensure application is made for all federal, State, or local permits or approvals and obtain such permits prior to commencing any operation of such GTE plant. If for any reason EDI or Edgeboro, Inc does not proceed with the current plan to install a new GTE facility and treatment system, EDI and Edgeboro, Inc. shall comply with this Paragraph for any alternative flaring, control or treatment system either may elect to install.

20. Within forty-five (45) calendar days of the Date of Lodging, Defendants EDI and Edgeboro, Inc. shall submit an administratively complete application to NJDEP, with a copy to EPA, for a Title V operating permit modification. NJDEP will use reasonable efforts to process the application(s). The application shall include:

a. a request for removal of the temporary flares, installed as a result of EDI's preconstruction permit, as a permitted source at such time as the Title V Permit is approved and effective and its gas-to-energy plant commences operation;

b. a request to incorporate the treatment system requirements in subparagraph 18.m. of this Section into EDI's Title V operating permit;

c. a request for an administrative amendment to remove NEO and/or O'Brien's name and equipment from Permit No. BOP 060001-17901 (or any modifications or revisions or subsequent versions of it) to reflect any changes of ownership or operation of such equipment. If, at the time EDI submits the administrative amendment request under this subparagraph 20(c) NEO and/or O'Brien still own any equipment regulated under Permit No. BOP 060001-17901 (or any modifications or revisions or subsequent versions of it),

then NEO and/or O'Brien shall either separately, or jointly submit with EDI, such administrative amendment request within the specified time period;

d. a request to add Edgeboro, Inc. as a party to the Title V operating permit now numbered as BOP060001-17901 (or any modifications or revisions or subsequent versions of it);

e. a request to transfer landfill gas to the Middlesex County Landfill or its gas-to-energy plant consistent with applicable Title V and NJDEP permitting requirements and the terms of Paragraph 18.n. of this Consent Decree.

EDI shall cease using the temporary flares, installed as a result of EDI's preconstruction permit, upon issuance of any Title V operating permit and when the gas-to-energy plant referenced in Paragraph 18 has commenced operation.

VI. REPORTING REQUIREMENTS

21. Defendant EDI shall submit the following reports:

- a. Within 30 Days after the end of each half calendar-year (i.e., by, July 30, and January 30) after lodging of this Consent Decree, until termination of this Decree pursuant to the Termination Section, Defendant EDI shall submit a biannual report to EPA and NJDEP for the period commencing on the Effective Date of this Consent Decree and ending on July 30, 2010 and for each six month period thereafter that shall include:
- (i) proof of prior submission of any records required of EDI under Paragraph 18 of this Consent Decree;

(ii) any additional records required to be kept under this Consent Decree, including the records required under Paragraph 18.e. and n.; and

(iii) the status of any air permit applications regarding the Facility (including applications for permit renewal or modification).

b. If Defendant EDI or Edgeboro, Inc. determines it has violated, or has reason to believe that it may violate, any requirement of this Consent Decree, including a reporting requirement, Defendant EDI or Edgeboro, Inc. (as applicable) shall notify the Plaintiffs of such determination and the likely duration of the violation, in writing, within ten (10) working Days of the Day Defendant EDI or Edgeboro, Inc. first becomes aware of the violation, with an explanation of the violation's likely cause, the anticipated duration, and a description of the remedial steps taken, or to be taken, to prevent or minimize such violation.

c. If the cause of a violation cannot be fully explained at the time the notification is due, Defendant EDI or Edgeboro, Inc. shall so state in the notification. In such instances, Defendant EDI or Edgeboro, Inc. shall investigate the cause of the violation and, within thirty (30) Days of the Day Defendant EDI or Edgeboro, Inc. becomes aware of the cause of the violation, shall then submit an amendment to the report, including a full explanation of the cause of the violation.

d. Information included in the reports and/or notifications required under this Paragraph may be used to comply with the reporting requirements in the Landfill NSPS and MACT to the extent that such information satisfies those requirements.

e. Nothing in this Paragraph relieves Defendant EDI or Edgeboro, Inc. of their obligations to provide the notice required by the Force Majeure Section of this Consent Decree.

22. All reports and notifications required by this section shall be submitted to the EPA Air Compliance Branch and NJDEP, in accordance with the Notice Section of this Consent Decree.

23. Each report and notification submitted by Defendant EDI or Edgeboro, Inc. under this Section shall be signed by an official of the submitting party and include the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

24. The reporting requirements of this Consent Decree do not relieve Defendant EDI and Edgeboro, Inc. of any reporting obligations required by the Act or implementing regulations,

or by any other federal, state, or local law, regulation, permit, the AOS (as amended) or other requirement.

25. Any information provided pursuant to this Consent Decree may be used by the United States or NJDEP in any proceeding to enforce the provisions of this Consent Decree or any violation of federal or State law and as otherwise permitted by law.

VII. STIPULATED PENALTIES

26. Each Defendant shall be liable for stipulated penalties to the United States and New Jersey for violations of this Decree as specified in Paragraph 27 below, unless excused under the Force Majeure or Dispute Resolution Sections of this Decree. Defendants EDI and Edgeboro, Inc. shall be liable for stipulated penalties to the United States and New Jersey for violations of this Decree as specified in Paragraphs 28 through 35, below, unless excused under the Force Majeure Section of this Decree. A violation includes any failure to perform any obligation required by the terms of this Decree, including, if required, submittal or implementation of any work plan or schedule required under this Decree.

27. Late Payment of Civil Penalty

If a Defendant fails to pay the civil penalty it is required to pay when due, that Defendant shall pay a stipulated penalty of \$2,500 per Day for each Day that the payment is late.

28. Failure to Comply With Landfill NSPS and/or MACT Requirements Per Paragraph 17 of this Consent Decree

The following stipulated penalties shall accrue per violation per day for each violation of the Landfill NSPS or MACT, which are not specifically covered by Paragraphs 29 through 35, below:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,500	1st through 14th Day
\$ 3,000	15th through 30th Day
\$ 6,000	31st Day and beyond

Compliance with any alternative term or condition of the EPA-approved AOS, as amended, shall constitute compliance with the corresponding provision(s), if any, of the Landfill NSPS and MACT for which the alternative is approved, and shall not result in accrual of any stipulated penalties under this Paragraph.

29. Failure to Implement Surface Monitoring and/or Appropriate Corrective Action

The following stipulated penalties shall accrue per violation per day for each violation of the requirements identified in Paragraph 18.c. and/or d. of this Consent Decree, pertaining to surface monitoring and corrective action(s):

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,500	1st through 14th Day
\$ 3,000	15th through 30th Day
\$ 6,000	31st Day and beyond

30. Failure to Comply With GCCS Operational Standards

The following stipulated penalties shall accrue per violation per day for each violation of the requirements identified in Paragraph 18.f. and g. of this Consent Decree, pertaining to GCCS wells:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,500	1st through 14th Day

\$ 3,000	15th through 30th Day
\$ 6,000	31st Day and beyond

31. Failure to Comply With GCCS Wellhead Monitoring Requirements

The following stipulated penalties shall accrue per violation per day for each violation of the wellhead monitoring requirements identified in Paragraph 18.h. of this Consent Decree:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,500	1st through 14th Day
\$ 3,000	15th through 30th Day
\$ 6,000	31st Day and beyond

32. Failure to Implement Plan to Monitor Integrity of Landfill Cover

The following stipulated penalties shall accrue per violation per day for each violation of the landfill cover monitoring requirements identified in Paragraph 18.i. of this Consent Decree:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,500	1st through 14th Day
\$ 3,000	15th through 30th Day
\$ 6,000	31st Day and beyond

33. Recordkeeping Requirements

The following stipulated penalties shall accrue per violation per Day for each violation of the recordkeeping requirements identified in Paragraph 18.e., n. and o. of this Consent Decree:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,000	1st through 14th Day
\$ 2,000	15th through 30th Day
\$ 4,000	31st Day and beyond

34. Failure to Apply for Any Required Permits

The following stipulated penalties shall accrue per violation per day for each violation of the requirements identified in Paragraphs 19 and 20 of this Consent Decree, pertaining to necessary permits:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,500	1st through 14th Day
\$ 3,000	15th through 30th Day
\$ 6,000	31st Day and beyond

35. Reporting Requirements

The following stipulated penalties shall accrue per violation per Day for each violation of the reporting requirements identified in Section VI of this Consent Decree:

<u>Penalty Per Violation Per Day</u>	<u>Period of Noncompliance</u>
\$ 1,000	1st through 14th Day
\$ 2,000	15th through 30th Day
\$ 4,000	31st Day and beyond

36. Stipulated penalties under this Section shall begin to accrue on the Day after performance is due or on the Day a violation occurs, whichever is applicable, and shall continue

to accrue until performance is satisfactorily completed or until the violation ceases. Stipulated penalties shall accrue simultaneously for separate violations of this Consent Decree.

37. A Defendant shall pay stipulated penalties to the United States and the State within 30 Days of a written demand by either Plaintiff. Such Defendant shall pay 50 percent of the total stipulated penalty amount due to the United States and 50 percent to the State. The Plaintiff making a demand for payment of a stipulated penalty shall simultaneously send a copy of the demand to the other Plaintiff.

38. The United States may in the unreviewable exercise of its discretion, reduce or waive stipulated penalties otherwise due it under this Consent Decree. The State may in the unreviewable exercise of its discretion, reduce or waive stipulated penalties otherwise due it under this Consent Decree.

39. Stipulated penalties shall continue to accrue during any Dispute Resolution, but need not be paid until the following:

- a. If the dispute is resolved by agreement or by a decision of the Plaintiff making a demand for payment, that is not appealed to the Court, the relevant Defendant shall pay accrued penalties determined to be owing, together with interest at the rate specified in 28 U.S.C. § 1961, to the United States and/or New Jersey, as applicable, within 30 Days of the effective date of the agreement or the receipt of such decision.
- b. If the dispute is appealed to the Court and the United States or New Jersey prevails in whole or in part, the relevant Defendant shall pay all accrued penalties determined by the Court to be owed together with interest thereto, unless

otherwise specified by the Court, within 60 Days of receiving the Court's decision or order, except as provided in subparagraph c., below.

c. If any relevant Defendant, the United States, or New Jersey appeals the District Court's decision, the relevant Defendant shall pay all accrued penalties determined to be owed, together with interest thereto, unless otherwise specified by the Court, within 15 Days of receiving the final appellate court decision.

40. A Defendant shall pay stipulated penalties owing to the United States and/or New Jersey, as appropriate, in the manner set forth and with the confirmation notices required by the Civil Penalty Section of this Decree, and the transmittal letter shall state that the payment is for stipulated penalties and indicate the violation(s) for which the penalties are being paid.

41. If a Defendant fails to pay stipulated penalties in accordance with the terms of this Consent Decree, such Defendant shall be liable for interest on such penalties, as provided for in 28 U.S.C. § 1961, accruing as of the date payment became due. Nothing in this Paragraph shall be construed to limit the United States or New Jersey from seeking any remedy otherwise provided by law for a Defendant's failure to pay any stipulated penalties.

42. Subject to the provisions of the Effect of Settlement/Reservation of Rights Section of this Consent Decree, the stipulated penalties provided for in this Consent Decree shall be in addition to any other rights, remedies, or sanctions available to the United States or New Jersey for a Defendant's violation of this Consent Decree or applicable law. Defendants shall be allowed a credit, for any stipulated penalties paid, against any statutory penalties imposed for such violation(s).

VIII. FORCE MAJEURE

43. “Force majeure,” for purposes of this Consent Decree, is defined as any event arising from causes beyond the control of a Defendant, of any entity controlled by a Defendant, or of a Defendant’s contractors, which delays or prevents the performance of any obligation under this Consent Decree despite the Defendant’s best efforts to fulfill the obligation. The requirement that a Defendant exercise “best efforts to fulfill the obligation” includes using best efforts to anticipate any potential force majeure event and best efforts to address the effects of any such event (a) as it is occurring and (b) after it has occurred to prevent or minimize any resulting delay to the greatest extent possible. “Force Majeure” does not include a Defendant’s financial inability to perform any obligation under this Consent Decree or an increase in costs.

44. If any event occurs or has occurred that may delay the performance of any obligation under this Consent Decree, whether or not caused by a force majeure event, the Defendant claiming Force Majeure shall provide notice orally or by electronic or facsimile transmission to the Plaintiffs within 72 hours of when the Defendant first knew that the event might cause a delay. Within ten (10) business days thereafter, the Defendant shall provide in writing to the Plaintiffs, an explanation and description of the reasons for the delay; the anticipated duration of the delay; all actions taken or to be taken to prevent or minimize the delay; a schedule for implementation of any measures to be taken to prevent or mitigate the delay or the effect of the delay; Defendant’s rationale for attributing such delay to a force majeure event if it intends to assert such a claim; and a statement as to whether, in the opinion of the Defendant, such event may cause or contribute to an endangerment to public health, safety, welfare or the environment. The Defendant shall include with any notice all available

documentation supporting the claim that the delay was attributable to a force majeure event. Failure to comply with the above requirements shall preclude the Defendant from asserting any claim of force majeure for that event for the period of time of such failure to comply, and for any additional delay caused by such failure. The Defendant shall be deemed to know of any circumstance of which the Defendant, or any entity controlled by Defendant, knew or should have known.

45. If the EPA and the State agree that the delay or anticipated delay is attributable to a force majeure event, the time for performance of the obligations under this Consent Decree that are affected by the force majeure event will be extended by the EPA and the State for such time as the EPA and the State determine is necessary to complete those obligations. An extension of the time for performance of the obligations affected by the force majeure event shall not, of itself, extend the time for performance of any other obligation. The EPA and the State will notify the relevant Defendant(s) in writing of the length of the extension, if any, for performance of the obligations affected by the force majeure event.

46. If the EPA and the State do not agree that the delay or anticipated delay has been or will be caused by a force majeure event, the EPA and the State will notify the relevant Defendant in writing of its decision.

47. If the Defendant elects to invoke the dispute resolution procedures set forth in the Dispute Resolution Section, it shall do so no later than 10 days after receipt of EPA and the State notice. In any such proceeding, the disputing Defendant shall have the burden of demonstrating by a preponderance of the evidence that the delay or anticipated delay has been or will be caused by a force majeure event, that the duration of the delay or the extension sought was or will be

warranted under the circumstances, that best efforts were exercised to avoid and mitigate the effects of the delay, and that Defendant complied with the requirements of this Section. If the EPA and the State agree that Defendant meets this burden, the delay at issue shall be deemed not to be a violation of the Consent Decree requirement identified by Defendant to the Plaintiffs and the Court.

IX. DISPUTE RESOLUTION

48. Unless otherwise expressly provided for in this Consent Decree, the dispute resolution procedures of this Section shall be the exclusive mechanism to resolve disputes arising under or with respect to this Consent Decree. A Defendant's failure to seek resolution of a dispute under this Section shall preclude that Defendant from raising any such issue as a defense to an action by the United States or New Jersey to enforce any obligation of the Defendant arising under this Decree.

49. Informal Dispute Resolution. Any dispute subject to Dispute Resolution under this Consent Decree shall first be the subject of informal negotiations. The dispute shall be considered to have arisen when a Defendant sends the Plaintiffs a written Notice of Dispute. Such Notice of Dispute shall state clearly the matter in dispute. The period of informal negotiations shall not exceed 30 Days from the date the dispute arises, unless that period is modified by written agreement by the Parties. If after this period the Parties cannot resolve a dispute by informal negotiations, then the position advanced by the EPA and the State shall be considered binding unless, within thirty (30) Days after the conclusion of the informal negotiation period, the disputing Defendant invokes formal dispute resolution procedures as set forth below.

50. Formal Dispute Resolution. A Defendant shall invoke formal dispute resolution procedures, within the time period provided in the preceding Paragraph, by serving on the Plaintiffs a written Statement of Position regarding the matter in dispute. The Statement of Position shall include, but need not be limited to, any factual data, analysis, or opinion supporting Defendant's position and any supporting documentation relied upon by the disputing Defendant.

51. The EPA and the State shall serve a Statement of Position within 45 Days of receipt of Defendant's Statement of Position. The EPA and the State Statement of Position shall include, but need not be limited to, any factual data, analysis, or opinion supporting that position and any supporting documentation relied upon by the EPA and the State. The EPA and the State Statement of Position shall be binding on the disputing Defendant, unless Defendant files a motion for judicial review of the dispute in accordance with the following Paragraph.

52. The disputing Defendant may seek judicial review of the dispute by filing with the Court and serving on the EPA and the State, in accordance with the Notices Section of this Consent Decree, a motion requesting judicial resolution of the dispute. The motion must be filed within twenty (20) Days of receipt of the EPA and the State Statement of Position pursuant to the preceding Paragraph. The motion shall contain a written statement of Defendant's position on the matter in dispute, including any supporting factual data, analysis, opinion, or documentation, and shall set forth the relief requested and any schedule within which the dispute must be resolved for orderly implementation of the Consent Decree.

53. The EPA and the State shall respond to Defendant's motion within the time period allowed by the Local Rules of this Court. Defendants may file a reply memorandum, to the extent permitted by the Local Rules.

54. Standard of Review

a. Disputes Concerning Matters Accorded Record Review. Except as otherwise provided in this Consent Decree, in any dispute pertaining to the adequacy or appropriateness of plans, procedures to implement plans, schedules or any other items requiring approval by EPA and New Jersey under this Consent Decree; the adequacy of the performance of work undertaken pursuant to this Consent Decree; and all other disputes that are accorded review on the administrative record under applicable principles of administrative law, disputing Defendant shall have the burden of demonstrating, based on the administrative record, that the position of the EPA and the State is not in accordance with this Consent Decree and the law.

b. Other Disputes. Except as otherwise provided in this Consent Decree, including subparagraph (a) above, the disputing Defendant shall bear the burden of demonstrating that its position complies with this Consent Decree.

55. The invocation of dispute resolution procedures under this Section shall not, by itself, extend, postpone, or affect in any way any obligation of any Defendant under this Consent Decree, unless and until final resolution of the dispute so provides. Stipulated penalties with respect to the disputed matter shall continue to accrue thereafter, from the first Day of noncompliance, but payment shall be stayed pending resolution of the dispute. If a disputing

Defendant does not prevail on the disputed issue, stipulated penalties shall be assessed and paid as provided in the Stipulated Penalties Section.

X. INFORMATION COLLECTION AND RETENTION

56. The United States, New Jersey and their representatives, including attorneys, contractors, and consultants, shall have the right of entry into any facility covered by this Consent Decree, at all reasonable times, upon presentation of credentials, to:

- a. monitor the progress of activities required under this Consent Decree;
- b. verify any data or information submitted to the United States or New Jersey in accordance with the terms of this Consent Decree;
- c. monitor any emissions or operational parameters and review any records;
- d. obtain documentary evidence, including photographs and similar data,
and
- e. assess Defendants EDI's and Edgeboro, Inc.'s compliance with this
Consent Decree.

57. Until five (5) years after the termination of this Consent Decree, Defendants EDI and Edgeboro, Inc. shall retain, and shall instruct their respective contractors and agents to preserve copies (both identical and non-identical versions) of all documents, records, or other information (including documents, records, or other information in electronic form) in each Defendant's or its contractors' or agents' possession or control, developed or collected by Defendants EDI, Edgeboro, Inc. or their respective contractor, or that come into their or their contractors' or agents' possession or control, and that relates in any manner to Defendants EDI's and Edgeboro, Inc.'s performance of their obligations under this Consent Decree. This

information-retention requirement shall apply regardless of any contrary corporate or institutional policies or procedures. At any time during this information-retention period, upon request by the United States or New Jersey, Defendants EDI and Edgeboro, Inc. shall each provide copies of any documents, records, or other information it is required to maintain under this Paragraph.

58. At the conclusion of the information-retention period provided in the preceding Paragraph, Defendants EDI and Edgeboro, Inc. shall notify the United States and New Jersey at least 90 days prior to the destruction of any documents, records, or other information subject to the requirements of the preceding Paragraph and, upon request by the United States or New Jersey, Defendants EDI and Edgeboro, Inc. shall deliver any such documents, records, or other information to EPA or New Jersey. Defendants EDI and Edgeboro, Inc. may assert that certain documents, records, or other information is privileged under the attorney-client privilege, the work product doctrine or any other privilege recognized by federal law. If Defendants EDI or Edgeboro, Inc. assert such a privilege, it shall provide the following: (1) the title of the document, record, or information; (2) the date of the document, record, or information; (3) the name and title of each author of the document, record, or information; (4) the name and title of each addressee and recipient; (5) a description of the subject of the document, record, or information; and (6) the privilege asserted by Defendants EDI or Edgeboro, Inc.

59. A Defendant may also assert that information required to be provided under this Section is protected as Confidential Business Information ("CBI") under 40 C.F.R. Part 2. As to any information that a Defendant seeks to protect as CBI, the Defendant shall follow the procedures set forth in 40 C.F.R. Part 2.

60. This Consent Decree in no way limits or affects any right of entry and inspection, or any right to obtain information, held by the United States or New Jersey pursuant to applicable federal or state law, regulation, or permit, nor does it limit or affect any duty or obligation of a Defendant to maintain documents, records, or other information imposed by applicable federal or State laws, regulations, or permits.

XI. EFFECT OF SETTLEMENT/RESERVATION OF RIGHTS

61. This Consent Decree resolves the civil claims of the United States and New Jersey against Defendants for the violations alleged in (i) the Complaint filed in this action, and (ii) the violations alleged in the Findings of Violation, dated January 10, 2007 and February 9, 2007, through the Date of Lodging of this Decree.

62. This Consent Decree resolves, with respect to all Defendants, the administrative claims of New Jersey set forth in the following Administrative Orders and Notices of Civil Administrative Penalty Assessments (AONOCAPA), Nos. 030004-17901, PEA 030005-17901, PEA 040002-17901, PEA 040003-17901, PEA 050001-17901, PEA 060001-17901, PEA 060003-17901, PEA 070001-17901 and PEA 080001-17901, some of which are docketed at the New Jersey Office of Administrative Law as OAL Docket Nos. EEQ 8393-04S and OAL Dkt. No. EEQ 281-05S.

63. This Consent Decree resolves, and EDI withdraws, the administrative permitting appeals filed by EDI with NJDEP from the issuance of Pre-Construction Permit No. 070001 to EDI and the modification of Operating Permit No. BOP 060001-17901.

64. The United States and New Jersey reserve all legal and equitable remedies available to enforce the provisions of this Consent Decree, except as expressly stated in

Paragraph 61 through 63, above. This Consent Decree shall not be construed to limit the rights of the United States or New Jersey to obtain penalties or injunctive relief under the Act or implementing regulations, the Air Pollution Control Act or implementing rules, or under other federal or state law, regulation, or permit condition, except as expressly specified in Paragraph 61 through 63, above. Nothing in this Consent Decree related to the physical demarcation between Edgeboro Landfill and Middlesex Landfill in Para. 18.c. above is binding on the United States or New Jersey regarding compliance with this consent decree, the Clean Air Act, the Air Pollution Control Act, implementing regulations or other laws.

65. In any subsequent administrative or judicial proceeding initiated by the United States or New Jersey for injunctive relief, civil penalties, other appropriate relief relating to the Facility or Defendants' alleged violations, Defendants shall not assert, and may not maintain, any defense or claim based upon the principles of waiver, res judicata, collateral estoppel, issue preclusion, claim preclusion, claim-splitting, or other defenses based upon any contention that the claims raised by the United States or New Jersey in the subsequent proceeding were or should have been brought in the instant case, except with respect to claims that have been specifically resolved pursuant to Paragraphs 61 through 63 of this Section.

66. Nothing in this Consent Decree shall be construed to limit the authority of the United States or New Jersey to undertake any action against any person, including the Defendants, to abate, prevent or correct conditions which are or may be contrary to public health, safety, welfare or the environment.

67. Nothing in this Consent Decree shall preclude EPA or NJDEP from taking enforcement action against the Defendants for violations of the law that were not resolved by this Consent Decree.

68. Nothing in this Consent Decree shall be construed as a waiver of any statutory or common law right of New Jersey nor shall this Consent Decree be considered a waiver of any claims for any natural resources damages or compensation.

69. This Consent Decree is not a permit, or a modification of any permit, under any federal, State, or local laws or regulations. Defendants EDI and Edgeboro, Inc. are responsible for achieving and maintaining complete compliance with all applicable federal, State, and local laws, regulations, rules and permits; and Defendants EDI's and Edgeboro, Inc.'s compliance with this Consent Decree shall be no defense to any action commenced pursuant to any such laws, regulations, rules or permits, except as set forth herein. The United States and New Jersey do not, by their consent to the entry of this Consent Decree, warrant or aver in any manner that Defendants EDI's and Edgeboro, Inc.'s compliance with any aspect of this Consent Decree will result in compliance with provisions of the Act, or with any other provisions of federal, State, or local laws, regulations, rules or permits.

70. This Consent Decree does not limit or affect the rights of Defendants or of the United States or New Jersey against any third parties, not party to this Consent Decree, nor does it limit the rights of third parties, not party to this Consent Decree, against a Defendant, except as otherwise provided by law.

71. This Consent Decree shall not be construed to create rights in, or grant any cause of action to, any third party not party to this Consent Decree.

XII. COSTS

72. The Parties shall bear their own costs of this action, including attorneys' fees, except that the United States and New Jersey shall be entitled to collect the costs (including attorneys' fees) incurred in any action necessary to collect any portion of the civil penalty or any stipulated penalties due but not paid by a Defendant.

XIII. NOTICES

73. Unless otherwise specified herein, whenever notifications, submissions, or communications are required by this Consent Decree, they shall be made in writing and addressed as follows:

To the United States:

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
Box 7611 Ben Franklin Station
Washington, D.C. 20044-7611
Re: DOJ No. 90-5-2-1-08412

To EPA:

Kenneth Eng
Chief, Air Compliance Branch
U.S. Environmental Protection Agency, Region 2
290 Broadway, Floor 21
New York, New York 10007

And

Flaire Hope Mills
Chief, Air Branch
U.S. Environmental Protection Agency, Region 2
290 Broadway, Floor 16
New York, New York 10007

To New Jersey:

Manager, Air Compliance & Enforcement
New Jersey Department of Environmental Protection
Central Regional Office
22 South Clinton Avenue
4 Station Plaza
P.O. Box 407
Trenton, NJ 08625-0407

And

Chief, Environmental Enforcement Section
New Jersey Division of Law
25 Market Street, 7th Floor, West Wing
P.O. Box 093
Trenton, New Jersey 08625-0093

To Defendants NEO Edgeboro LLC and O'Brien Biogas IV LLC.:

For NEO Edgeboro LLC

c/o Fortistar LLC
1 North Lexington Avenue
White Plains, NY 10601

Attention: President

with a copy to:

Robert F. Dunbar, Esq.
219 Landenberg Road
Landenberg, PA 19350

and a copy to:

Michael G. Murphy, Esq.
Beveridge & Diamond
477 Madison Ave., 15th Floor
New York, NY 10022-5802

For O'Brien Biogas IV, LLC

O'Brien Biogas IV, LLC
c/o Fortistar LLC
1 North Lexington Avenue
White Plains, NY 10601

Attention: President

with a copy to:

Robert F. Dunbar, Esq.
219 Landenberg Road
Landenberg, PA 19350

and a copy to:

Michael G. Murphy, Esq.
Beveridge & Diamond
477 Madison Ave., 15th Floor
New York, NY 10022-5802

To Defendant Edgeboro Disposal, Inc.:

Jack Whitman, President
Edgeboro Disposal, Inc.
P.O. Box 6478
East Brunswick, New Jersey 08816

with a copy to:

George J. Tyler, Esq.
Tyler & Carmeli P.C.
1 AAA Drive, Suite 204
Robbinsville, NJ 08691

74. Any Party may, by written notice to the other Parties, change its designated notice recipient or notice address provided above.

75. Unless otherwise provided herein, notifications or communications with the United States, EPA, or NJDEP that are required under this Consent Decree will be deemed

received on the date they are postmarked and sent either by overnight delivery with receipt, by hand delivery with receipt, or by certified or registered mail, return receipt requested.

XIV. EFFECTIVE DATE

76. The Effective Date of this Consent Decree shall be the date upon which this Consent Decree is entered by the Court or a motion to enter the Consent Decree is granted, whichever occurs first, as recorded on the Court's docket.

XV. RETENTION OF JURISDICTION

77. The Court shall retain jurisdiction over this case until termination of this Consent Decree, for the purpose of resolving disputes arising under this Decree or entering orders modifying this Decree, pursuant to the Dispute Resolution or Modification Sections of this Decree, or effectuating or enforcing compliance with the terms of this Decree.

XVI. MODIFICATION

78. The terms of this Consent Decree, including any attached appendices, may be modified only by a subsequent written agreement signed by all the Parties. Where the modification constitutes a material change to this Decree, it shall be effective only upon approval by the Court.

79. Any disputes concerning modification of this Decree shall be resolved pursuant to the Dispute Resolution Section of this Decree, provided, however, that, instead of the burden of proof provided by the Dispute Resolution Section of this Decree, the Party seeking the modification bears the burden of demonstrating that it is entitled to the requested modification in accordance with Federal Rule of Civil Procedure 60(b).

XVII. TERMINATION

80. After Defendants EDI and Edgeboro, Inc. (1) have satisfied all provisions in Section V of this Consent Decree (Compliance Requirements), Section VI of this Decree (Reporting Requirements), and Section VII of this Decree (Stipulated Penalties), (2) have obtained a Title V operating permit approval or modification approval from NJDEP in accordance with this Consent Decree, and (3) have maintained satisfactory compliance with the requirements of this Consent Decree for at least a two year period from the Effective Date; and the Defendants EDI and Edgeboro, Inc. have paid their portion of the civil penalty and any accrued stipulated penalties as required by this Decree, Defendants EDI and Edgeboro, Inc. may serve upon EPA and the State a Request for Termination, stating that Defendants EDI and Edgeboro, Inc. have satisfied the requirements of this Decree, together with all necessary supporting documentation.

81. Following receipt by the United States and New Jersey of Defendants EDI's and Edgeboro, Inc.'s Request for Termination, the United States, New Jersey, and Defendants EDI and Edgeboro, Inc. shall confer informally within thirty (30) days concerning the Request, if necessary, and review any disagreement that they may have as to whether Defendants EDI and Edgeboro, Inc. have satisfactorily complied with the requirements for termination of this Consent Decree, as described in Paragraph 80. If Defendants EDI and Edgeboro, Inc. have satisfied all requirements for termination, the Decree shall be terminated as to Defendants EDI and Edgeboro, Inc., the United States and the State, and Defendants EDI and Edgeboro, Inc. shall submit, for the Court's approval, a joint stipulation terminating the Decree as to Defendants EDI and Edgeboro, Inc.

82. After Defendant NEO has paid its portion of the Civil Penalty and any accrued stipulated penalties as required by this Consent Decree, Defendant NEO may serve upon the Plaintiffs a Request for Termination, stating that Defendant NEO has satisfied those requirements, together with all necessary supporting documentation. After Defendant O'Brien has paid its portion of the Civil Penalty and any accrued stipulated penalties as required by this Consent Decree, Defendant O'Brien may serve upon the Plaintiffs a Request for Termination, stating that Defendant O'Brien has satisfied those requirements, together with all necessary supporting documentation.

83. Following receipt by the United States and New Jersey of Defendant NEO and/or O'Brien's Request for Termination, the United States, New Jersey, and the requesting Defendant(s) shall confer informally within 30 days concerning the Request, if necessary, and review any disagreement that they may have as to whether the Defendant(s) has satisfactorily complied with the requirements for termination of this Consent Decree, as described in Paragraph 82. If the Defendant requesting termination has satisfied all requirements for termination, the Decree shall be terminated as to that Defendant, the United States and the State, and that Defendant shall submit, for the Court's approval, a joint stipulation terminating the Decree as to that Defendant.

84. If the EPA and the State do not agree that the Decree may be terminated as to a Defendant, that Defendant may invoke Dispute Resolution under this Decree, but not until 90 days after service of its Request for Termination.

XVIII. PUBLIC PARTICIPATION

85. This Consent Decree shall be lodged with the Court for a period of not less than 30 Days for public notice and comment in accordance with 28 C.F.R. § 50.7. The United States and New Jersey reserve the right to withdraw or withhold their consent if the comments regarding the Consent Decree disclose facts or considerations indicating that the Consent Decree is inappropriate, improper, or inadequate. Defendants consent to entry of this Consent Decree without further notice and agree not to oppose entry of this Consent Decree, or to withdraw from this Consent Decree, unless the United States or New Jersey has notified Defendants in writing that they no longer support entry of this Consent Decree as set forth herein.

XIX. SIGNATORIES/SERVICE

86. Each undersigned representative of Defendants, the State of New Jersey, and the Assistant Attorney General for the Environment and Natural Resources Division of the Department of Justice certifies that he or she is fully authorized to enter into the terms and conditions of this Consent Decree and to execute and legally bind the Party he or she represents to this document.

87. This Consent Decree may be signed in counterparts, and its validity shall not be challenged on that basis. Defendants agree to accept service of process by mail with respect to all matters arising under or relating to this Consent Decree and to waive the formal service requirements set forth in Rules 4 and 5 of the Federal Rules of Civil Procedure and any applicable Local Rules of this Court including, but not limited to, service of a summons.

XX. INTEGRATION

88. This Consent Decree constitutes the final, complete, and exclusive agreement and understanding among the Parties with respect to the settlement embodied in the Decree and supersedes all prior agreements and understandings, whether oral or written, concerning the settlement embodied herein. No other document, nor any representation, inducement, agreement, understanding, or promise, constitutes any part of this Decree or the settlement it represents, nor shall it be used in construing the terms of this Decree.

XXI. FINAL JUDGMENT

89. Upon the Effective Date of this Consent Decree, it shall constitute an enforceable judgment for purposes of post-judgment collection in accordance with Rule 69 of the Federal Rules of Civil Procedure, the Federal Debt Collection Procedure Act, 28 U.S.C. §§ 3001-3308, and other applicable federal authority. The United States and NJDEP shall each be deemed a judgment creditor for purposes of collection of any unpaid amounts of the civil and stipulated penalties and interest.

90. Upon approval and entry of this Consent Decree by the Court, this Consent Decree shall constitute a final judgment of the Court as to the United States, New Jersey, and Defendants.

Dated and entered this ___ day of _____, 2010.

UNITED STATES DISTRICT JUDGE
District of New Jersey

FOR PLAINTIFF UNITED STATES OF AMERICA:

FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY:

JUDITH A. ENCK
Regional Administrator
United States Environmental Protection Agency
Region 2
290 Broadway
New York, New York 10007

Date:

ERIC SCHAAF
Regional Counsel
United States Environmental Protection Agency
Region 2
290 Broadway
New York, New York 10007

Date:

Erick R. Ihlenburg (Of Counsel)

Date:

FOR THE STATE OF NEW JERSEY:

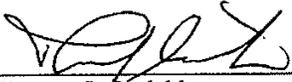
Wolfgang Skacel
Assistant Commissioner
New Jersey Department of Environmental Protection

Date:

PAULA T. DOW
ATTORNEY GENERAL OF NEW JERSEY
By: Bruce A. Velzy, Deputy Attorney General

Date:

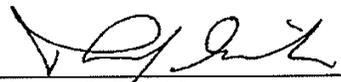
FOR DEFENDANT NEO EDGEBORO, LLC



Thomas J. Gesicki
President

Date: 4/22/10

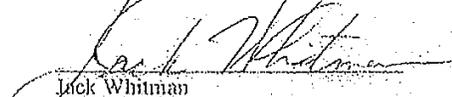
FOR DEFENDANT O'BRIEN BIOGAS IV, LLC



Thomas J. Gesicki
President

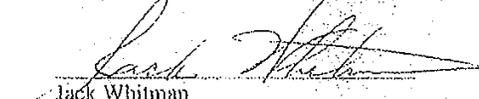
Date: 4/22/10

FOR DEFENDANT ED:


Jack Whitman
President

Date: 4/20/10

FOR DEFENDANT EDGEBORO, INC.


Jack Whitman
President

Date: 4/20/10

APPENDIX 1

ANNE MILGRAM
Attorney General of New Jersey
R.J. Hughes Justice Complex
P.O. Box 093
Trenton, New Jersey 08625-0093
Attorney for Department of Environmental
Protection

By: Bruce A. Velzy
Deputy Attorney General
(609) 292-1509

Department of Environmental Protection
NEA No. 090001-17901
Agency Ref. No.: PEA040003-17901

IN THE MATTER OF)
NEO EDGEBORO LLC)
_____)

Administrative Action
STIPULATION OF PARTIAL
SETTLEMENT

This Stipulation of Partial Settlement (hereinafter "Stipulation") is entered into pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "Department" or "DEP") by N.J.S.A. 13:1D-1 et seq., and the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq., and duly delegated to the Department's Assistant Commissioner for Compliance and Enforcement pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. NEO EDGEBORO LLC owned and operated a gas collection & control facility at and adjacent to the Edgeboro Landfill, located at 39 Edgeboro Road (with a permit address listed as 3 Brick Plant Road, Lots 34.08, Block 834), East Brunswick Township, Middlesex County, New Jersey (ID# 17901).

2. NEO EDGEBORO LLC's facility and operations were regulated by an operating permit issued by the Department, BOP No. 020002-17901.
3. As the result of reviewing the 2002, 2003 and 2004 Annual Compliance Certifications from NEO EDGEBORO LLC, the Department has determined that NEO EDGEBORO LLC failed to comply with applicable requirements as follows:

- a. Requirement: Pursuant to 40 CFR §60.756(a) and N.J.A.C. 7:27-22.3(e), monitoring shall occur monthly. The temperature shall be determined by a temperature instrument. The nitrogen level shall be determined using Method 3C. The oxygen shall be determined by an oxygen meter using Method 3A or 3C except that: (i) The span shall be set so that the regulatory limit is between 20 and 50 percent of the span; (ii) A data recorder is not required; (iii) Only two calibration gases are required, a zero and span, and ambient air may be used as the span; (iv) A calibration error check is not required; and (v) The allowable sample bias, zero drift, and calibration drift are +/- 10 percent.

Description of Noncompliance: NEO EDGEBORO LLC failed to fulfill all conditions and provisions of BOP020002 by failing to measure temperature, oxygen, or nitrogen for the numerous well heads in 2002, 2003 and 2004.

- b. Requirement: Pursuant to 40 CFR §60.756(a)(1) and N.J.A.C. 7:27-22.3(e), the owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly.

Description of Noncompliance: NEO EDGEBORO LLC failed to fulfill all conditions and provisions of BOP020002 by failing to measure gauge pressure for numerous well heads in 2002, 2003 and 2004.

- c. Requirement: Pursuant to 40 CFR §60.753(c) and N.J.A.C. 7:27-22.3(e), the owner or operator shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 deg C and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent.

Description of Noncompliance: NEO EDGEBORO LLC failed to fulfill all conditions and provisions of BOP020002 by failing to operate each interior well head in the collection system at a temperature below 55 deg C, and either a nitrogen level less than 20% or an oxygen level less than 5% in 2002, 2003 and 2004.

- d. Requirement: Pursuant to 40 CFR §60.753(b) and N.J.A.C. 7:27-22.3(e), the owner or operator shall 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 shall record instances when positive pressure occurs in efforts to avoid a fire; (2) Use of a geomembrane or synthetic cover; (3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Administrator.

Description of Noncompliance: NEO EDGEBORO LLC failed to fulfill all conditions and provisions of BOP020002 by failing to operate the collection system with a negative pressure at each wellhead in 2002 and 2003.

4. Based on the facts set forth in these FINDINGS, the Department determined that NEO EDGEBORO LLC violated the Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq., and the regulations promulgated pursuant thereto specifically, N.J.A.C. 27-22.3(e), 40 CFR §60.756(a), 40 CFR §60.756(a)(1), 40 CFR §60.753(c) and 40 CFR §60.753(b); and thereafter issued an Administrative Order and Notice of Civil Administrative Penalty Assessment ("AO/NOCAPA"), No. PEA 040003-17901. This AO/NOCAPA assessed civil administrative penalties totaling \$442,000.
5. In the interest of partially resolving the issues raised in the AO/NOCAPA (No. PEA 040003-17901), DEP and NEO EDGEBORO LLC have agreed to a partial settlement of the civil administrative penalty assessed in this matter by way of the payment by NEO EDGEBORO LLC of \$250,000.00, without further effort, delay and costs.
6. The parties have agreed to the form and content of this Stipulation which sets forth the disposition of this matter.

THEREFORE, IT IS HEREBY ORDERED AND AGREED AS FOLLOWS:

7. In partial settlement of the matters described in the AO/NOCAPA, NEO EDGEBORO LLC shall pay to DEP the amount of \$250,000.00 in one payment to be made within no

more than 3 business days from the signing of this Stipulation; and received by DEP absolutely no later than September 4, 2009. Time is of the essence.

8. Payment shall be made by cashier's check or certified check or bank check payable to "Treasurer, State of New Jersey." Said check shall be delivered by hand or sent by overnight delivery, with a copy of an enforcement invoice, to:

Edward Choromanski, Administrator
Air Compliance & Enforcement
Department of Environmental Protection
401 E. State Street
4th Floor, East Wing
Trenton, NJ 08625

- a. A copy of this check and invoice shall be sent by Regular U.S. Mail or electronic mail to:

Bruce A. Velzy, DAG
New Jersey Division of Law
P.O. Box 093
Trenton, New Jersey 08625

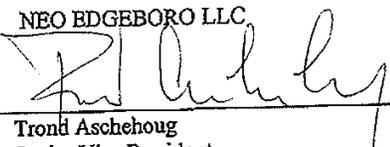
9. It is further agreed that in the event NEO EDGEBORO LLC fails to make full and timely payment of the \$250,000.00 settlement in accordance with paragraph 7 of this Stipulation, then the full amount of the \$442,000 penalty assessed in the AO/NOCAPA shall be immediately due and owing, with interest and penalties as allowed by law, and without further notice or adjudication.

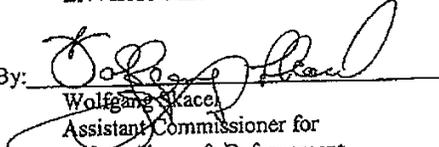
10. This Stipulation is an agency order and is enforceable as set forth in N.J.S.A. 58:1A-1 et seq. In addition to any other right or remedy, DEP may also docket this order as a judgment pursuant to N.J.S.A. 2A:58-10 et seq. and may commence an action to enforce this Stipulation, or any part thereof, in Superior Court pursuant to R. 4:67-6.

11. This Stipulation is in partial settlement of PEA040003-17901. However, NEO EDGEBORO LLC and the Department intend to finalize the settlement of this AO/NOCAPA and any other pending claims or AO/NOCAPAs (including PEA030004-17901, PEA030005-17901, PEA040002-17901, PEA060001-17901, PEA050001-17901, PEA060001-17901, PEA060003-17901, PEA070001-17901, and PEA080001-17901) in a Consent Decree with the United States of America, on behalf of the U.S. Environmental Protection Agency, O'Brien Biogas IV LLC and Edgeboro Disposal, Inc. The payment of the \$250,000.00 to DEP provided for in this Stipulation will be credited against any payments to be made by NEO EDGEBORO LLC to DEP pursuant to the above-referenced Consent Decree; provided, however, NEO EDGEBORO LLC and DEP recognize that the partial settlement, and such payment to DEP of \$250,000.00, will have no effect on the rights or claims of the United States of America against NEO EDGEBORO LLC, including those in relation to the Edgeboro Landfill.
12. NEO EDGEBORO LLC hereby acknowledges that the payment of the sum of \$250,000.00 is irrevocable.
13. By signing this Stipulation, NEO EDGEBORO LLC makes no admission of liability for any of the violations asserted against it in the AO/NOCAPA, provided however, that in the event of further similar violations by NEO EDGEBORO LLC, DEP may consider the violation(s) cited in the AO/NOCAPA as having been proven for purposes of assessing penalties pursuant to N.J.A.C. 7:27-1 et seq. against NEO EDGEBORO LLC for any further similar violations. The entry of this Stipulation shall not preclude DEP from considering the violations set forth in the AO/NOCAPA when assessing penalties for any future violations.

14. No monies required to be paid pursuant to this Stipulation are intended to constitute a debt, damage claim, penalty or other claim which could be limited or discharged in a bankruptcy proceeding, as this Stipulation is entered into pursuant to the police powers of the State of New Jersey and the DEP for the enforcement of the law and the protection of the public health, safety, welfare, and the environment.
15. This Stipulation relates only to the violations and the penalties assessed in AO/NOCAPA PEA040003-17901 and is not a settlement of any other administrative or judicial action arising from such conduct.
16. Nothing in this Stipulation shall constitute a waiver of any statutory or regulatory right of DEP pertaining to any of the laws of the State of New Jersey. DEP is not barred or precluded from bringing any other enforcement or penalty assessment actions that it may deem appropriate which it is entitled to bring under the laws of the State of New Jersey.
17. Nothing contained in this Stipulation restricts the ability of the State to use discovery obtained in this enforcement action or to use the underlying facts and allegations contained in the AO/NOCAPA in any other proceeding.
18. This Stipulation has been approved by the Commissioner of the DEP, through the authority delegated to the Assistant Commissioner DEP's Compliance & Enforcement program.

19. This Stipulation is binding on NEO EDGEBORO LLC, its successors, and assigns. The undersigned representative of NEO EDGEBORO LLC certifies that he is authorized to sign this Stipulation on behalf of NEO EDGEBORO LLC and to bind NEO EDGEBORO LLC to the terms and provisions herein.

DATED: August 31, 2009 By: 
NEO EDGEBORO LLC
Trond Aschehoug
Senior Vice President

DATED: August 31, 2009 By: 
STATE OF NEW JERSEY,
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
Wolfgang Skacek
Assistant Commissioner for
Compliance & Enforcement



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

AUG 13 2008

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Jack Whitman, President
Edgeboro Disposal Inc.
PO Box 6478
East Brunswick, NJ 08816

Trond Aschehoug, General Manager
NEO Edgeboro, LLC and O'Brien Biogas IV, LLC
3005 Douglas Blvd., Suite 105
Roseville, CA 95661

Re: Edgeboro Disposal Inc. –
Alternative Gas Collection and Control System Design Plan
and Alternative Operating Scenario for Construction
East Brunswick, Middlesex County, New Jersey

Dear Sirs:

This letter is to inform you of the United States Environmental Protection Agency's (EPA) conditional approval of a revised design plan for an alternative gas collection and control system (GCCS) at the Edgeboro landfill area, located in East Brunswick Township, Middlesex County, New Jersey. The initial application in this matter was submitted in April 2007 by Sadat Associates, Inc. (SAI) on behalf of Edgeboro Disposal Inc. (EDI), and EPA provided written comments in May 2007. The revised alternative GCCS design plan was submitted on June 12, 2007, and EPA provided written comments on September 17, 2007. EPA also received supplemental information related to Electric Arc Furnace (EAF) slag on November 26, 2007.

EPA's conditional approval is given under the authority of 40 C.F.R. §§ 60.752(b)(2). This conditional approval does not ensure the future structural or operational integrity of the GCCS and is given without prejudice. EPA retains full authority to enforce the requirements of the Clean Air Act (CAA), as amended, 42 U.S.C. § 7401 *et seq.*, and nothing in this conditional approval shall limit that authority.

The design plan was submitted due to the pending expansion of the overlying Middlesex County landfill area. The alternative GCCS at the Edgeboro landfill area is designed to

comply with the Municipal Solid Waste Landfill regulations in 40 C.F.R. § 60.750 et seq. (Landfill NSPS) and 40 C.F.R. § 63.1950 et seq. (Landfill MACT), and to facilitate the permitted expansion of the Middlesex County landfill area. This alternative operating scenario (AOS) conditional approval is not a determination of whether the Edgeboro and Middlesex County landfill areas are or are not a single source of air emissions.

The unlined Edgeboro landfill area encompasses approximately 320 acres. Based on SAI's submittal there are currently approximately 172 vertical wells installed in the landfill. The landfill's capacity is 16 million megagrams. The estimated non-methane organic compound (NMOC) emission rate using EPA's Landfill Gas Model Version 2.0 is 242,860.80 m³/yr. This value assumes that landfill gas (LFG) typically contains 0.4 percent NMOC by volume.

Within three (3) business days of issuance of this AOS conditional approval, both O'Brien Biogas IV, LLC (O'Brien) and EDI shall submit to the New Jersey Department of Environmental Protection (NJDEP) Bureau of Operating Permits, via certified mail, a written request for an administrative amendment to title V Operating Permit BOP040001, to include EDI as co-permittee on such permit. O'Brien and EDI shall e-mail a "pdf" copy of their request to NJDEP and EPA on the date that the request is sent by certified mail.

The requests submitted in accordance with the paragraph above shall indicate that, at this time, EDI will not become a co-permittee with respect to the O'Brien gas-to-energy (GTE) facility, which includes three flares, one boiler, and one emergency generator, as described in title V Operating Permit BOP040001.

Within ten (10) business days of issuance of this AOS conditional approval, O'Brien and/or EDI shall submit, to the NJDEP Bureau of Operating Permits, an application requesting a minor modification to title V Operating Permit BOP040001, to incorporate this AOS conditional approval into such permit. O'Brien and EDI shall e-mail an electronic copy of the application to EPA on the date that the application is submitted to NJDEP.

The submissions described above shall be addressed to:

NJDEP Air Quality Permitting Program
Bureau of Operating Permits
PO Box 027
Trenton, NJ 08625
Attn: Frank Steitz
francis.steitz@dep.state.nj.us

In no event shall EDI initiate construction on the alternative GCCS prior to the submission of (1) EDI's written request for an administrative amendment to include EDI as co-permittee on title V Operating Permit BOP040001, and (2) an application requesting a minor modification to such permit to incorporate this AOS conditional approval into the permit.

On the date that EDI initiates construction of the alternative GCCS, EDI shall notify EPA, NJDEP and O'Brien, via certified and electronic mail, of such initiation.

Construction of the alternative GCCS shall be in accordance with the revised June 12, 2007 submittal and all other applicable State and federal requirements, including any permits issued by NJDEP, and in satisfaction of the conditions set forth below.

During the alternative GCCS construction project, compliance with any term or condition of the EPA-approved AOS will constitute compliance with the corresponding provision(s), if any, of the Landfill NSPS and MACT, for which the alternative is approved.

EPA's approval of EDI's AOS, as revised and submitted on June 12, 2007, is conditioned on the following:

1. The use of only crushed stone aggregate, screened to a minimum size of 1.5 inches and maximum of 3 inches in diameter, in the gas collection trenches, which includes the lateral trenches (as described in Paragraph #2, below), and condensate traps and drains.

SAI provided additional information on the chemical structure of EAF slag and furnace refractory brick, showing a breakdown of its mineral composition. The new information clarified that 46 percent of the slag is composed of relatively insoluble compounds. These compounds include: ferrous oxides, ferric hydroxide, calcium silicate, silicon dioxide and calcium magnesium silicate. However, the other 54 percent of the slag is composed of calcium carbonate and complex calcium iron oxides, some or all of which may be soluble and cause clogging of the system.

Since there is an uncertainty on how this material will react and no way for these problems to be corrected after the installation of the modified GCCS, the use of EAF slag and/or furnace refractory brick in the gas collection trenches, which includes the lateral trenches (as described in Paragraph #2, below), and the condensate traps and drains, is disapproved.

2. Each gas collection trench, which includes the lateral trench, shall have the following minimum dimensions:
 - Excavated to a depth of at least four (4) feet into existing waste, as measured from the bottom of the existing clay barrier of the Edgeboro landfill area to the floor of the lateral trench;
 - The portion of the trench that extends from the floor of the lateral trench to the top of the existing clay barrier of the Edgeboro landfill area shall be at least two and a half (2.5) feet wide;
 - The portion of the trench immediately above the lateral trench and existing clay barrier of the Edgeboro landfill area shall be at least thirty two and a half (32.5) feet wide, with the approximate center located directly above the gas collection pipe placed in the lateral trench;
 - The 32.5 feet wide portion of the trench immediately above the lateral trench and existing clay barrier of the Edgeboro landfill area shall be at least one (1) foot

thick, as measured upwards from the top of the existing clay barrier of the Edgeboro landfill area.

A revised drawing is attached to this AOS conditional approval (Attachment 1), entitled "Gas Collection System Detail," Drawing No. DT-1, showing the above listed minimum dimensions of the gas collection trenches, which includes the lateral trenches.

3. The construction project shall be conducted in five (5) stages, as described in the June 12, 2007 submittal, except that EDI may begin construction on the eastern header simultaneously with the commencement of the first stage of construction, and EDI will continue construction on the eastern header until it is completed. This will involve work during more than one construction stage.

Any other deviation from the five stage approach must be approved by EPA prior to initiating the deviation.

4. The construction of the alternative GCCS shall be completed in accordance with the following schedule:

Stage 1, completion no later than 10 weeks from the initiation of construction;
Stage 2, completion no later than 15 weeks from the initiation of construction;
Stage 3, completion no later than 20 weeks from the initiation of construction;
Stage 4, completion no later than 25 weeks from the initiation of construction; and
Stage 5, completion no later than 30 weeks from the initiation of construction.

As provided above, on the date that EDI initiates construction of the alternative GCCS, EDI shall notify EPA, NJDEP and O'Brien, via certified and electronic mail, of such initiation.

A construction stage is considered complete once one (1) foot of cover material is placed above the membrane liner covering the horizontal collector.

Each term and condition of this AOS conditional approval shall remain in effect until 180 calendar days after the completion of Stage 5. This AOS conditional approval shall terminate if, for any reason, construction of the alternative GCCS ceases and does not resume within 180 calendar days.

EPA may approve a deviation from the schedule set forth above, and/or any term or condition of this AOS conditional approval, pursuant to this Paragraph #4. In the event that EDI anticipates a necessary deviation, EDI shall submit a written request to EPA for approval of such deviation. The written request shall be submitted at least ten (10) calendar days prior to the date when the anticipated deviation would occur, or as soon as the deviation is anticipated if the deviation would occur within such 10 day period. Such request shall describe the anticipated duration of the deviation, the precise cause(s) of the deviation, and the measures taken or to be taken to prevent or minimize the deviation, including measures to prevent or minimize LFG emissions. EDI shall copy NJDEP on its request, and shall notify NJDEP of any EPA approval of the request within three (3) business days of receiving such approval.

EPA may approve a deviation from the above schedule, and/or a term or condition of this AOS conditional approval, if it finds that: (a) the notification requirement of the preceding paragraph has been satisfied; and (b) the deviation is reasonable and cannot be averted by EDI; and (c) all necessary measures to prevent or minimize the deviation have been or will be taken by EDI, including measures to prevent or minimize LFG emissions. Reasonable increases in the cost or expenses incurred in implementing the AOS will not be a basis for approval of a deviation from the above schedule.

5. Prior to initiation of construction of each stage, the respective area shall be isolated through the installation of shut-off valves on adjacent main header lines. In addition, any existing pipes cross-connected to the piping in the construction area shall be sealed. The existing north main header shall remain active to allow gas circulation into the new headers or the flares, except during modification to the two (2) condensate traps, which can only be replaced when this header is out of service.

Each condensate trap shall be replaced within two (2) calendar days from when the north main header is taken out of service, after which the north main header shall be returned to service as soon as possible, but in no event later than two (2) calendar days after it is taken out of service in order to replace a condensate trap.

6. All the gas collected from within and from outside a construction stage shall be routed to a control device in accordance with all applicable State and federal requirements, including any permits or approvals issued by EPA or NJDEP.
7. Once the horizontal collectors are installed within a construction stage, each well shall be disconnected and attached to the horizontal collector individually. A disconnected well shall be reconnected to the new horizontal collector before any other well is disconnected, such that only one well is disconnected at a time.

In the event that any gas collection well to be connected to a new horizontal collector per the June 12, 2007 submission is disrupted for any reason, such that any LFG may escape from within the well, EDI shall immediately cap the well, on a temporary basis, and connect it to the new horizontal collector as soon as possible after such well is disrupted.

In the event that any gas collection well that will not be connected to a new horizontal collector per the June 12, 2007 submission is disrupted for any reason, such that any LFG may escape from within the well, EDI shall immediately cap the well on a permanent basis.

EDI shall include in the monthly well monitoring records required by Paragraph #11, below, a description of any disruption and capping of wells under this Paragraph #7.

8. The connection of each well to the new horizontal collectors that is operating under negative pressure shall not take more than two (2) hours to complete.
9. If a well has no vacuum and is not located in a stage that will undergo construction within four (4) weeks, then surface monitoring shall be conducted in the area of such

well on a monthly basis. Corrective action(s) shall be taken as specified in 40 C.F.R. § 60.755(c)(4) of the Landfill NSPS, with the exception of the requirement to install a new well or other collection device under § 60.755(c)(4)(v).

10. The pressure of all active gas wells located within the construction stage and those within the "buffer zone" shall be monitored and recorded on a monthly basis. The buffer zone shall be limited to an area no greater than 300 feet from the active construction stage and shall not include any part of a completed construction stage.
11. The monthly well monitoring records for all wells with measurable vacuum in the construction stage and buffer zone shall include results for pressure, landfill gas temperature, nitrogen and oxygen level. The records shall also include a list of the wells that lose vacuum due to the construction project. The date when the vacuum for any well is turned off and when it is placed back into service, or scheduled to be turned back on, shall also be included in the monitoring records. The records shall also describe any disruption and capping of wells that occurs during the recordkeeping period (see Paragraph #7, above). These records shall be submitted to EPA in accordance with Paragraph #16, below.

Once a horizontal collector is in place, wellhead and surface monitoring at each end of the collector shall occur in accordance with the applicable requirements of the Landfill NSPS and MACT, included in the facility's title V Operating Permit BOP040001.

12. With respect to SAI's November 26, 2007 response to EPA comment #7, the monitoring report shall include the data on wells outside the stage under construction including a list of those that are not under vacuum.
13. The landfill surface and gas wells located outside the construction stage and the buffer zone shall continue to be monitored and reported on in accordance with the applicable requirements of the Landfill NSPS and MACT, and title V Operating Permit BOP040001. This monitoring shall continue to be conducted by NEO, or any other permittee, except that monitoring and reporting with respect to the active construction stage and the 300 foot buffer zone shall be conducted by EDI during the term of the AOS.
14. EPA requires that once a stage of construction is complete, the surface of the newly completed stage including the buffer zone shall be monitored within five (5) calendar days, to determine whether the construction was effective in maintaining surface methane concentrations below 500 ppm, and to allow for repairs, if necessary, before the Middlesex County Utilities Authority (MCUA) impermeable liner is installed. Such monitoring shall be conducted in accordance with the drawings revised pursuant to Paragraph #18, below, and with 40 C.F.R. § 60.755(c)(2) and (3) of the Landfill NSPS.

If any measurement of surface methane is equal to or greater than 500 ppm above background, such measurement shall be recorded as a monitored exceedance, and the actions specified in 40 C.F.R. § 60.755(c)(4)(i) through (v) shall be taken, with the exception of the requirement to install a new well or other collection device under § 60.755(c)(4)(v). The requirements in § 60.755(c)(4)(iv) apply for any location that

initially showed an exceedance but has a methane concentration less than 500 ppm when re-monitored within ten (10) calendar days as specified in § 60.755(c)(4)(ii) or (iii). The actions specified in § 60.755(c)(4)(i) through (v) may be discontinued once the MCUA has begun installation of the impermeable liner within the construction stage or buffer zone in which the exceedance is measured, provided that such installation proceeds in accordance with the timeframes in the attached MCUA construction schedule for the impermeable liner (Attachment 2).

Pursuant to 40 C.F.R. § 60.755(c)(4)(v), EPA approves the installation of the MCUA impermeable liner as an alternative remedy to an uncorrected exceedance, in lieu of the requirement to install a new well or other collection device.

Timeline for installation:

If re-monitoring of any location triggers the approved alternative remedy under 40 C.F.R. § 60.755(c)(4)(v), the MCUA impermeable liner must be completely installed over such location of the uncorrected exceedance within 120 calendar days of initially measuring the exceedance.

In the event that the MCUA impermeable liner is not completely installed over the location of any uncorrected exceedance within 120 calendar days of initially measuring the exceedance, EDI shall re-monitor the location of the exceedance no later than that 120th day. If any measurement is equal to or greater than 500 ppm above background, EDI shall take the actions specified in 40 C.F.R. § 60.755(c)(4)(ii) and (iii), with the exception of the requirement to install a new well or other collection device under § 60.755(c)(4)(v). For any exceedance measured after the approved alternative remedy under § 60.755(c)(4)(v) has been triggered, the corrective action to bring the surface methane concentration below 500 ppm shall include cover maintenance at the location of the exceedance. The actions specified in § 60.755(c)(4)(ii) and (iii) may be discontinued once the MCUA has begun installation of the impermeable liner within the construction stage or buffer zone in which the exceedance is measured, provided that such installation proceeds in accordance with the timeframes in the attached MCUA construction schedule for the impermeable liner.

As provided in Paragraph #4, above, a construction stage is considered complete once one (1) foot of cover material is placed above the membrane liner covering the horizontal collector.

During the term of this AOS, for the area within a construction stage and buffer zone, compliance with this Paragraph #14 is an approved alternative to compliance with 40 C.F.R. § 60.753(d) and corresponding conditions in title V Operating Permit BOP040001.

15. EPA requires the submission of surface monitoring reports, from quarterly monitoring, any monthly monitoring required by Paragraph #9, above, and when a construction stage has been completed. The reports shall include detailed information of measurements, and corrective action(s) taken, for each exceedance found outside a construction stage and buffer zone, and for each exceedance found

within a construction stage and buffer zone after the construction stage has been completed.

16. During the alternative GCCS construction project, wellhead and surface monitoring reports shall be submitted to EPA quarterly, continuing as required, with the first report submitted no later than three (3) months from the last semi-annual report. The quarterly monitoring reports shall include the information required by Paragraphs #11 and 15, above, and Paragraph #24, below, pertaining to the transfer of LFG from the Edgeboro landfill area to MCUA.
17. The physical demarcation of the landfill areas shall be maintained every fifty (50) feet to delineate the monitoring responsibilities along the boundary line of the two landfill areas. The line of demarcation shall be relocated as the construction of the Middlesex County landfill area continues.
18. Drawings dated June 4, 2007, specifically 3, 4 and 5 of 7, detail the proposed surface methane monitoring pathway to be utilized after each of cells 9, 8 and 7 are completed. However, the project is being constructed in 5 stages, and each stage does not correspond to a particular landfill cell. For each construction stage, drawings shall be resubmitted for EPA's review, showing the surface methane monitoring pathway that will be utilized after completion of the construction stage.
19. SAI states that collectors 14 through 18 will have sampling ports at both ends, and that drawings 2, 3, 4, 5 and 23 have been modified to reflect this change. Drawing 2 indicates that valves will be located at both ends of the collectors. Drawings 3 and 4 indicate that detail 7 of drawing 22 specifies what will be installed for a valve and sampling system at the ends of collectors 14 through 18. However, detail 7 includes a valve but no sampling ports. In addition, detail 13 on drawing 23, which is a detail for a collection header with a sampling port and a throttling valve, indicates that it applies only to collection headers 1 through 11 and 19 and 20. Collectors 14 through 18 shall have sampling ports at both ends. Drawings shall be submitted for EPA's review, detailing the sampling ports and throttling valves for collectors 12 through 18 and 14b through 18b.
20. Details 9A and 9B of drawing 22 and detail 13 of drawing 23 provide the sampling ports in the correct position with respect to the throttling valve (between the throttling valve and wellhead). However, Detail 2 of drawing 22 shows the sampling port on the incorrect side of the throttling valve. All sampling ports shall be located on the correct side of the throttling valve. Revised drawings shall be submitted for EPA's review, showing the location of the sampling port for Detail 2 of drawing 22.
21. Drawings 9 through 19 have been modified to include additional condensate drains where the slopes were less than 3 percent. However, horizontal collectors 14, 16 and 18 have only a single condensate drain, yet long runs of pipe with slope of less than 3 percent.
 - Horizontal collector 14 has 3 regional low points and a single condensate drain that is not located at any of the low points.

- Horizontal collector 16 has a long shallow slope run and only a single condensate drain that is not located at the low point.
- Horizontal collector 18 has a long shallow slope run and only a single condensate drain that is not located at the low point.

Revised drawings shall be submitted for EPA's review, showing additional condensate drains at the low points.

22. All revised drawings required by this AOS conditional approval shall be submitted within thirty (30) days of its issuance to:

Mr. Kenneth Eng
USEPA Region 2
Air Compliance Branch—Floor 21
290 Broadway
New York, New York 10007
eng.ken@epa.gov

All other documents required to be submitted to EPA pursuant to this AOS conditional approval shall be submitted to the above contact.

23. Copies of all drawings, reports or other documents required by this AOS conditional approval shall be submitted to:

Ms. Patricia Conti
NJDEP Air Compliance & Enforcement
Central Region
PO Box 407
300 Horizon Center
Robbinsville, NJ 08625
patricia.conti@dep.state.nj.us

and

Mr. Edward Choromanski
NJDEP Air Compliance & Enforcement
PO Box 422
401 East State Street
4th Floor East
Trenton, New Jersey 08625
ed.choromanski@dep.state.nj.us

and

Ms. Shwu-Mei Chen
NJDEP Bureau of Landfill and Hazardous Waste Permitting, Solid and Hazardous
Waste Management Program
PO Box 414
401 East State Street
Trenton, New Jersey. 08625
shwu-mei.chen@dep.state.nj.us

24. In the event that the O'Brien GTE facility is not operating during construction of the alternative GCCS, EPA encourages the transfer of LFG from the Edgeboro landfill area to the MCUA for environmentally beneficial use at MCUA's GTE facility in Sayreville, New Jersey. Such transfer and use is approved under this AOS conditional approval, only for the duration of the construction of the alternative GCCS in accordance with the schedule in Paragraph #4, above, and so long as the transfer does not cause or allow MCUA to exceed any of its permitted limits for its GTE facility, including, but not limited to:

- The LFG limit for the two (2) gas turbines and the two (2) Heat Recovery Steam Generators (HRSG) is 3,350 MMft³/365 days,
- The natural gas limit for the two HRSGs is 542 MMft³/365 days,
- The LFG combustion limit for the turbines is 74 MMBtu/hr, and the LFG and/or natural gas combustion limit for the HRSGs is 43 MMBtu/hr,
- The sulfur content of the fuel burned shall be less than or equal to 0.028 weight percent sulfur in the LFG.

The transfer of LFG from the Edgeboro landfill area to MCUA may be continued after construction of the alternative GCCS is completed only if all necessary approvals, including any permit modifications, are obtained from NJDEP and/or EPA prior to continuing such transfer.

During the alternative GCCS construction project, EDI shall keep and maintain records of any and all transfers of LFG from the Edgeboro landfill area to MCUA. These records shall include the date(s) that any LFG is transferred from the Edgeboro landfill area to MCUA, and for each date identified, the duration of all periods in which LFG is diverted to MCUA and the gas flow rate of the LFG transferred. Copies of these records shall be submitted to EPA and NJDEP along with the quarterly wellhead and surface monitoring reports required by Paragraph #16, above.

25. As provided in Paragraph #11, above, once a horizontal collector is in place, wellhead and surface monitoring at each end of each collector shall occur in accordance with the applicable requirements of the Landfill NSPS and MACT, included in the facility's title V Operating Permit BOP040001. If required pursuant to 40 C.F.R. § 60.755(c)(4)(v), EDI shall install a side slope well or wells in the area of the horizontal collector(s).

In the event that a horizontal collector (or a portion thereof) becomes damaged due to forces beyond EDI's control, including settlement associated with the construction of landfill cells in the overlying Middlesex County landfill area, such that the ability

of the horizontal collector (or a portion thereof) to collect a sufficient amount of LFG is significantly impaired, EDI shall close and decommission that horizontal collector (or a portion thereof), with capping and valve closure, or other measure(s). EDI shall submit written notification to EPA and NJDEP of any closing and decommissioning of a horizontal collector (or a portion thereof) within five (5) business days of such closing and decommissioning.

26. If EDI acquires the NEO Edgeboro (NEO) GCCS (as well as ancillary rights associated therewith) and/or the O'Brien GTE facility (as well as ancillary rights associated therewith), or O'Brien ceases to own and ceases to operate the GTE facility, then (i) the parties shall promptly take action to remove NEO and/or O'Brien (as appropriate) as permittees on the existing title V Operating Permit BOP040001 and (ii) NEO and/or O'Brien (as appropriate) shall no longer be obligated to fulfill any requirement or condition associated with this AOS, or any other permitting or regulatory obligation concerning the Edgeboro landfill area. Nothing in this Paragraph #26 shall release NEO and/or O'Brien from any obligations or liabilities under the CAA, or the New Jersey Air Pollution Control Act, N.J.S.A. 26:2C-1 et seq., that are incurred prior to EDI's acquisition of the NEO GCCS and/or the O'Brien GTE facility.
27. At all times during the construction project, best work practices shall be followed, and all reasonable measures shall be taken, to minimize surface emissions of LFG to the greatest extent possible.

The revised design plan appears to minimize the NMOC emissions during construction and to control NMOC emissions after the construction, as well as lateral migration of subsurface gas. The following Table 1 details how the alternative GCCS will meet the control system requirements in the Landfill NSPS:

Table 1 – NSPS Subpart WWW GCCS Requirements

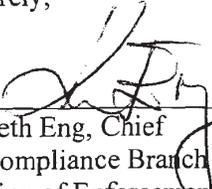
<p>Is the design life of the GCCS greater than 15 years? 40 C.F.R. § 60.752(b)(2)(v).</p>	<p>The GCCS has been designed to operate for more than 15 years. Also, based on the information provided, if the horizontal collection wells fail due to settlement, vertical wells will be installed at the edge of the MCUA area of the landfill, where the liner terminates, to recover landfill gas that is not recovered by other horizontal collectors.</p>
<p>Is the GCCS designed for the maximum expected gas flow rates? 40 C.F.R. § 60.752(b)(2)(ii)(A)(1).</p>	<p>The reported landfill gas flow rate is 4,500 scfm. During construction, the temporary flares will have a maximum combined capacity of 5,266 cfm total. Assuming each of the 5 stages covers 20 percent of the landfill, the potential gas flow rate from each stage would be 900 cfm. After construction, other control devices are available including open flares, an enclosed flare, a boiler owned by O'Brien Biogas and combined cycle turbines owned by MCUA.</p>
<p>Is there a sufficient density of collection wells? 40 C.F.R. § 60.755(a)(2).</p>	<p>Horizontal collector pipes, which are placed at a minimum depth of 4 feet of existing waste, in a 2.5 foot wide lateral trench, are spaced approximately 150 feet apart. To maximize landfill gas collection, a T-shaped design shall be used directly above the lateral trench, composed of an area 1 foot thick and 32.5 feet wide that will be filled with crushed stone.</p>
<p>Is the landfill gas piping system sized properly and routed to a control device? 40 C.F.R. § 60.752(b)(2)(iii).</p>	<p>There will be 20 horizontal collectors ranging from 550 to 3,250 feet in length. The diameter of the horizontal collectors will vary from 6 to 10 inches, which will connect to the main header. The main header will vary from 16 to 18 inches in diameter. This design will accommodate the maximum gas flow rate once the modification is completed.</p>
<p>Is surface monitoring planned? 40 C.F.R. § 60.753(d).</p>	<p>Facility has submitted existing surface monitoring plans and the final surface monitoring plans after construction.</p>

EPA's approval of the plan is contingent upon EDI meeting the conditions outlined above. EDI shall implement the monitoring, recordkeeping, and reporting requirements in the following Table 2, as well as any additional applicable requirements not listed:

Table 2 – Monitoring, Recordkeeping, and Reporting	
Continuous Monitoring	<p>Enclosed combustors shall have a temperature monitoring device equipped with a continuous recorder that has a minimum accuracy of ± 1 percent of the temperature being measured, expressed in degrees Celsius or ± 0.5 degrees Celsius, whichever is greater and a constant measurement of gas flow to the control device.</p> <p>Open flares shall have a constant measurement of gas flow to the control device and the presence of a flame.</p>
Monthly Monitoring	<p>Measure the gauge pressure in the horizontal gas collection well, nitrogen or oxygen content in LFG, and temperature of the landfill gas.</p> <p>A program shall be implemented to monitor for cover integrity and cover repairs as necessary on a monthly basis.</p>
Quarterly Monitoring	Surface Methane Concentrations using EPA Method 21.
Recordkeeping	<p>EDI shall have on-site, readily accessible records of the maximum design capacity, amount of solid waste in place, performance/compliance tests and equipment operating parameters/exceedances, for a period of at least 5 years. Also, equipment vendor specification records shall be kept. A plot map showing all existing and planned collection devices shall be kept for the life of the GCCS. This includes the date and location of any newly installed collectors. Finally, documentation shall be kept with respect to the nature, amount, location, and date of placement of any nondegradable waste excluded from the GCCS.</p>
Reporting	<p>Annual, semi annual and quarterly reports shall be submitted to the EPA and NJDEP in accordance with the existing title V reporting schedule. During the construction period, all reports shall be submitted quarterly to EPA and NJDEP. The reports shall contain all the information specified in 40 C.F.R. §§ 60.757(f)(1) through 60.757(f)(6). All reports to EPA shall be submitted to Kenneth Eng, Chief, Air Compliance Branch. All reports to NJDEP shall be submitted to Patricia Conti, NJDEP Air Compliance and Enforcement, Central Regional Office, with copies sent to Ed Choromanski, Administrator, NJDEP Air Compliance and Enforcement.</p>

If you have any additional questions regarding this matter, please contact Johnny Chiang of my staff at (212) 637-4048 or chiang.johnny@epa.gov, or Erick Ihlenburg of EPA Region 2's Office of Regional Counsel, at (212) 637-3250 or ihlenburg.erick@epa.gov.

Sincerely,



Kenneth Eng, Chief
Air Compliance Branch
Division of Enforcement and Compliance Assistance
U.S. Environmental Protection Agency – Region 2

cc: Edward Choromanski
Administrator
NJDEP Air Compliance & Enforcement
PO Box 422
401 East State Street
4th Floor East
Trenton, NJ 08625-0422

Patricia Conti
NJDEP Air Compliance & Enforcement
Central Region
PO Box 407
300 Horizon Center
Robbinsville, NJ 08625-0407

Robert Confer
NJDEP Bureau of Landfill and Hazardous Waste Permitting
Solid and Hazardous Waste Management Program
PO Box 414
401 East State Street
Trenton, NJ 08625-0414

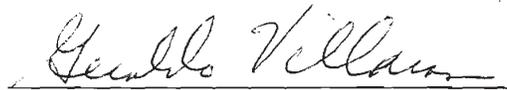
**Construction of Cells 7, 8 and 9 at the Middlesex County Landfill
Contract 06-4SW
Construction Schedule Estimate - Gas Well Modifications by Others**

Description-Completion Time	Months													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Gas Well Modifications - By Others														
Stages 1 & 2														
Stages 3, 4, & 5														
Construction of Cell 9														
150 Days from start of Month 1														
Construction of Cell 8														
300 Days from start of Month 1														
Construction of Cell 7														
360 Days from start of Month 1														
Primary Trash Netting														
240 Days from start of Month 1														
Completion of all Site Improvements														
375 Days from start of Month 1														
Completion of Entire Facility														
400 Days from start of Month 1														
Convey Fully Operable Facility														
406 Days from start of Month 1														

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT ON **AUGUST 13, 2008**, I MAILED A TRUE COPY OF THE ATTACHED DOCUMENT BY **CERTIFIED MAIL-RETURN RECEIPT** REQUESTED, **ARTICLE NUMBER 7002-2030-0006-5359-7416** POSTAGE PRE-PAID, UPON THE FOLLOWING PERSON(S):

**Mr. Jack Whitman, President
Edgeboro Disposal Inc.
P.O. Box 6478
East Brunswick, New Jersey 08816**



Geraldo Villaran

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT ON AUGUST 13, 2008, I MAILED A TRUE COPY OF THE ATTACHED DOCUMENT BY CERTIFIED MAIL-RETURN RECEIPT REQUESTED, ARTICLE NUMBER 7002-2030-0006-5359-7409 POSTAGE PRE-PAID, UPON THE FOLLOWING PERSON(S):

**Mr. Trond Aschehoug, General Manager
NEO Edgeboro, LLC, and O'Brien Biogas IV, LLC
3005 Douglas Blvd., Suite 105
Roseville, California 95661**

A handwritten signature in cursive script, appearing to read "Gerald Villaran", written over a horizontal line.

Geraldo Villaran



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

JUL 13 2009

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Jack Whitman, President
Edgeboro Disposal Inc.
PO Box 6478
East Brunswick, NJ 08816

RECEIVED

JUL 16 2009

Re: Edgeboro Disposal Inc.
Alternate Gas Collection and Design Plan and
Alternate Operating Scenario for Construction—
Stage 6 Berm Liner Installation

TYLER & CARMELI, P.C

Dear Mr. Whitman:

This letter is to inform you of the U.S. Environmental Protection Agency's (EPA) approval of Edgeboro Disposal, Inc.'s (EDI) request for a deviation from the alternate operating scenario (AOS)¹ for the gas collection and control system (GCCS) installed at the Edgeboro landfill, located in East Brunswick, New Jersey. EDI's initial AOS deviation request was submitted to EPA by letter dated April 3, 2009, in accordance with Paragraph 4 of the AOS. On April 9, 2009, EPA and EDI had a conference call to discuss the details of the request. EDI submitted a follow-up letter to EPA on April 16, 2009, which included technical drawings of the proposed deviation, among other information. On behalf of EDI, Sadat Associates, Inc. submitted additional technical drawings to EPA by e-mail on June 2, 2009. This submittal was originally directed to the New Jersey Department of Environmental Conservation (NJDEP) by letter dated May 14, 2009.

As described in the submittals referenced above, EDI requested a deviation from the five-stage GCCS construction schedule set forth in Paragraph 4 of the AOS, to address the need for additional construction activities that were not included in the design plan for the five stages. Specifically, EDI requested to add a sixth stage (Stage 6) to the construction

¹ EPA conditionally approved the AOS on August 13, 2008.

schedule, for the construction of a "berm liner" over and around the interfaces between the Edgeboro and Middlesex County landfill areas,² and construction of twenty-five (25) foot vertical extensions of gas collection wells installed in the Stage 5 area. This additional construction would also include any necessary adjustments or repairs to the new GCCS installation, in order to comply with the AOS and/or 40 C.F.R. § 60.750 et seq. (Landfill NSPS) and 40 C.F.R. § 63.1950 et seq. (Landfill MACT). Stage 6 cannot be constructed until the Middlesex County Utilities Authority (MCUA) completes construction of its liner system for Cell 7 of the Middlesex County landfill. In its submittals, EDI committed to completing all Stage 6 construction by no later than fifteen (15) days after the MCUA completes its construction of the liner system for Cell 7.

The berm liner will be constructed at the east and west termination points of the five stages noted above, as detailed in the drawings submitted to NJDEP on May 14, 2009, and to EPA on June 2, 2009. As shown in the drawings, the berm liner will be installed over a sand layer of the MCUA's liner system, creating a sealed termination point covering the ends of the headers at both ends of the new Edgeboro landfill GCCS. This will close a permeable gap between MCUA's liner and the cover of the new Edgeboro landfill GCCS. In addition, the berm liner will include thirteen (13) 450 foot horizontal sections of landfill gas collection piping that are spaced every fifty (50) feet apart, with monitoring ports. This horizontal collection piping is designed to collect landfill gas that might otherwise escape to the atmosphere through the interfaces of the Edgeboro and Middlesex County landfill areas. Accordingly, the berm liner is designed to assure compliance with applicable Landfill NSPS and MACT requirements by preventing excess surface methane emissions from the interfaces of the Edgeboro and Middlesex County landfill areas, and by preventing excess oxygen from infiltrating the GCCS through these interfaces.

EPA approves the construction of Stage 6 as described in Sadat Associates, Inc.'s May 14, 2009 submittal to NJDEP, and hereby amends Paragraph 4 of the AOS by inserting the following underlined language immediately after the construction schedule in Paragraph 4:

In addition, a sixth stage known as the "Berm Liner" shall be completed no later than fifteen (15) days after completion of the MCUA liner for Cell 7. The Berm Liner shall be installed at the east and west termination points of the five stages noted above, in accordance with the four (4) drawings prepared by Sadat Associates, Inc., dated May 13, 2009, and entitled "Limit of Stage 6," "Berm Monitoring Layout," "Well Extension," and "Proposed Berm Liner Detail." EPA recognizes that "the duration of construction" referenced in Paragraph #24 of this AOS includes the construction of Stage 6. Where the term "five (5) stages" or "five stage" appears in the AOS, it is amended to "six (6) stages" or "six stage," and where the term "Stage 5" appears, it is amended to "Stage 6," except in the construction schedule in this Paragraph #4.

EPA also requires that the thirteen (13) additional horizontal landfill gas collection wells meet all applicable requirements of the Landfill NSPS and MACT, including monitoring requirements and the requirement to route all collected landfill gas to a control system.

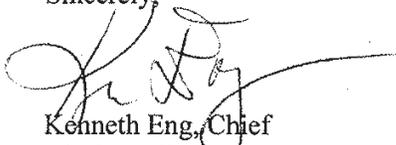
² This AOS deviation approval is not a determination by EPA that the Edgeboro and Middlesex County landfill areas are or are not a single source of air emissions.

This is consistent with EPA's previous determinations (see EPA's Applicability Determination Index (ADI) No. 0800020, Request #15). The ADI can be accessed at <http://cfpub.epa.gov/adi>.

This approval does not ensure the future structural or operational integrity of the Edgeboro landfill GCCS. EPA retains full authority to enforce the requirements of the Clean Air Act (CAA), as amended, 42 U.S.C. § 7401 et seq., and nothing in this approval letter shall limit that authority.

If you have any questions regarding this matter, please contact Mr. John Chiang of my staff at chiang.johnny@epa.gov or (212) 637-4048, or Erick R. Ihlenburg, Assistant Regional Counsel, at ihlenburg.erick@epa.gov or (212) 637-3250.

Sincerely,



Kenneth Eng, Chief
Air Compliance Branch
Division of Enforcement and Compliance Assistance

cc: George Tyler, Esq.
Tyler & Carmeli, P.C.
1 AAA Drive, Suite 204
Robbinsville, NJ 08691

Edward Choromanski
Administrator
NJDEP Air Compliance & Enforcement
PO Box 422
401 East State Street
4th Floor East
Trenton, NJ 08625-0422

Patricia Conti
NJDEP Air Compliance & Enforcement
Central Region
PO Box 407
300 Horizon Center
Robbinsville, NJ 08625-0407

Robert Confer
NJDEP Bureau of Landfill and Hazardous Waste Permitting
Solid and Hazardous Waste Management Program
PO Box 414
401 East State Street
Trenton, NJ 08625-0414

Trond Aschehoug
General Manager
NEO Edgeboro, LLC
3005 Douglas Blvd., Suite 105
Roseville, CA 95661

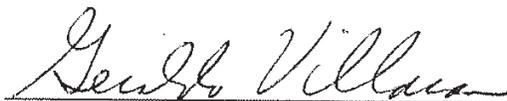
Michael Murphy, Esq.
Beveridge & Diamond, P.C.
477 Madison Ave., Floor 15
New York, NY 10022-5802

Richard Fitamant, P.E.
Executive Director
Middlesex County Utilities Authority
53 Edgeboro Road
East Brunswick, NJ 08816

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT ON July 13, 2009, I MAILED A TRUE COPY OF THE ATTACHED DOCUMENT BY CERTIFIED MAIL-RETURN RECEIPT REQUESTED, ARTICLE NUMBERS 7002-2030-0006-5359-0660 POSTAGE PRE-PAID, UPON THE FOLLOWING PERSON(S):

**Mr. Jack Whitman, President
Edgeboro Disposal Inc.
P.O. Box 6478
East Brunswick, New Jersey 08816**



Geraldo Villaran



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

RECEIVED

February 12, 2010

SENT VIA CERTIFIED AND ELECTRONIC MAIL

FEB 17 2010

Mr. George Tyler, Esq.
Tyler & Carmeli, P.C.
1 AAA Drive, Suite 204
Robbinsville, New Jersey 08691

TYLER & CARMELI, P.C

Re: Edgeboro Disposal Inc. (EDI) – Stage 6 Gas Collection System (Berm Liner)
East Brunswick, Middlesex County, New Jersey

Dear Mr. Tyler:

This is in response to your August 14, 2009 letter, regarding Edgeboro Disposal, Inc.'s (EDI) request that the U.S. Environmental Protection Agency (EPA) clarify the requirement listed at the bottom on page 2 and top of page 3 of its July 13, 2009 alternative operating scenario (AOS) deviation approval.¹ Specifically, the AOS deviation approval included the installation of thirteen horizontal "leak detection pipes" within the fill material of the new Stage 6 "berm liners" on the east and west sides of the Edgeboro landfill area.² The berm liners are designed to seal a permeable gap between the cover of the Edgeboro landfill gas collection and control system (GCCS) and the liner of the Middlesex County landfill area.³ Your August 14, 2009 letter indicated that the thirteen horizontal leak detection pipes are intended to provide EDI with early warning of a disruption to the Edgeboro landfill GCCS. These leak detection pipes will not be placed in any solid waste, will not be connected to the Edgeboro landfill GCCS, and are not intended to extract any landfill gas from the Edgeboro landfill area. Your letter also indicated that the leak detection pipes will be capped and will only be opened for periodic methane leak tests. Based on the above facts, EDI requested that EPA clarify that the thirteen leak detection pipes are not subject to the operational and monitoring requirements of the Landfill NSPS and MACT pertaining to landfill gas collection

¹ EPA conditionally approved the original AOS on August 13, 2008.

² Refer to Drawing 2 of 4 entitled "Berm Monitoring Layout," submitted to EPA by Sadat Associates, Inc. on behalf of EDI on May 13, 2009.

³ Nothing in this letter shall be construed to be a determination by EPA that the Edgeboro and Middlesex County landfill areas are or are not a single source of air emissions.
Internet Address (URL) • <http://www.epa.gov>

wellheads. EDI indicated that it will conduct surface methane monitoring around the leak detection pipes in accordance with the Landfill NSPS and MACT.

EPA agrees that, so long as the thirteen leak detection pipes are not connected to the Edgeboro landfill GCCS, EDI is not required to comply with the operational and monitoring requirements for gas collection wellheads under the Landfill NSPS and MACT with respect to those pipes. However, if EDI connects a leak detection pipe to the GCCS for any reason, EPA will consider such connected pipe to be a horizontal gas collection well subject to the applicable operational and monitoring requirements of the Landfill NSPS and MACT. EDI must conduct surface methane monitoring around each leak detection pipe as part of its regular quarterly surface monitoring, and must keep and report the records from such monitoring, in accordance with the Landfill NSPS and MACT. By this letter, EPA modifies its July 13, 2009 AOS deviation approval to reflect the above clarification.⁴

As a follow-up to the July 13, 2009 AOS deviation approval, EPA requests that EDI confirm, in writing, the following regarding the thirteen leak detection pipes:

- EDI will ensure that the thirteen horizontal leak detection pipes are capped at both ends at all times, except for periodic methane gas leak checks conducted by EDI. The periodic leak checks should be conducted once per quarter, to correspond with EDI's quarterly surface methane monitoring events.
- EDI will submit to EPA and the New Jersey Department of Environmental Protection (NJDEP), as part of the semi-annual reports required by 40 C.F.R. § 63.1980(a), copies of all records of its periodic leak checks for the previous six months, if any.
- EDI will notify EPA and NJDEP in writing at least ten (10) business days before connecting any leak detection pipe to the Edgeboro landfill GCCS, and will revise the relevant GCCS drawings to show any connected pipes in accordance with the applicable requirements in the Landfill NSPS and MACT.

If you have any additional questions regarding this matter, please contact Erick Ihlenburg, Assistant Regional Counsel, at ihlenburg.erick@epa.gov or (212) 637-3250.

Sincerely,



for Kenneth Eng, Chief
Air Compliance Branch
Division of Enforcement and Compliance Assistance

⁴ In addition, EPA notes that the July 13, 2009 AOS deviation approval implicitly extended the deadline for completion of Stage 5 of the AOS. The AOS deviation approval added a Stage 6 to the AOS, to address the construction of the berm liners. Stage 5 cannot be fully completed until the Stage 6 berm liners are installed pursuant to the AOS deviation approval.

cc: Jack Whitman, President
Edgeboro Disposal Inc.
PO Box 6478
East Brunswick, New Jersey 08816

Edward Choromanski
Administrator
NJDEP Air Compliance & Enforcement
PO Box 422
401 East State Street
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Patricia Conti
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Robert Confer
NJDEP Bureau of Landfill and Hazardous Waste Permitting
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PO Box 414
401 East State Street
Trenton, NJ 08625-0414



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

RECEIVED

APR 14 2010

APR 16 2010

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

TYLER & CARMELI, P.C.

Mr. George Tyler, Esq.
Tyler & Carmeli, P.C.
1 AAA Drive, Suite 204
Robbinsville, New Jersey 08691

Re: Edgeboro Disposal Inc. (EDI) – Stage 6 Gas Collection System (Berm Liner)
East Brunswick, Middlesex County, New Jersey

Dear Mr. Tyler:

This is in response to your March 24, 2010 letter regarding Edgeboro Disposal, Inc.'s (EDI) request to modify the Alternative Operating Scenario (AOS) for the Edgeboro landfill, conditionally approved by the U.S. Environmental Protection Agency (EPA) on August 13, 2008.¹ EDI requested this AOS amendment in order to further clarify the applicability of landfill NSPS and MACT requirements to the thirteen horizontal "leak detection pipes," installed within the new Stage 6 berm liner in accordance with the AOS, as modified. The berm liners are designed to seal a gap between the cover of the Edgeboro landfill gas collection and control system (GCCS) and the liner of the Middlesex County landfill area.² EDI installed the leak detection pipes to provide it with early warning of a disruption to the GCCS. The leak detection pipes will not be placed in any solid waste, are not currently connected to the GCCS, and are not intended to extract landfill gas from the Edgeboro landfill area. The leak detection pipes are capped on each end and will only be opened for periodic methane leak checks. Based on these facts, EPA modifies the AOS to reflect the clarifications set forth below.

As stated in EPA's February 12, 2010 AOS modification, EDI must conduct quarterly surface methane monitoring around the horizontal leak detection pipes, in accordance with the landfill NSPS and MACT. EDI must comply with the corrective action provisions in 40 C.F.R. § 60.755(c) of the landfill NSPS if a methane reading of 500 ppm

¹ EPA subsequently amended the AOS by letters dated July 13, 2009 and February 12, 2010.

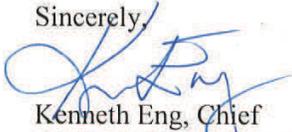
² Nothing in this letter shall be construed to be a determination by EPA that the Edgeboro and Middlesex County landfill areas are or are not a single source of air emissions.
Internet Address (URL): <http://www.epa.gov>

or more is detected. EDI must also comply with the applicable recordkeeping and reporting requirements in the landfill NSPS and MACT with respect to surface methane monitoring.

The leak detection pipes are not currently subject to the NSPS and MACT requirements for GCCS wellheads. However, consistent with the February 12, 2010 AOS modification, if EDI chooses to connect a leak detection pipe to the Edgeboro landfill GCCS for any reason, the pipe will become subject to the applicable requirements for GCCS wellheads in 40 C.F.R. §§ 60.753 (operational standards for GCCS), 60.755 (compliance provisions), 60.756 (monitoring of operations), 60.757 (reporting requirements) and 60.758 (recordkeeping requirements). If EDI chooses not to connect a leak detection pipe to the GCCS for any reason, EDI must ensure that the pipe remains capped at each end, and must continue to conduct surface methane monitoring around the pipe in accordance with the landfill NSPS and MACT.

If you have any additional questions regarding this matter, please contact Erick Ihlenburg, Assistant Regional Counsel, at ihlenburg.erick@epa.gov or (212) 637-3250.

Sincerely,



Kenneth Eng, Chief
Air Compliance Branch
Division of Enforcement and Compliance Assistance

cc: Jack Whitman, President
Edgeboro Disposal Inc.
PO Box 6478
East Brunswick, New Jersey 08816

Edward Choromanski
Administrator
NJDEP Air Compliance & Enforcement
PO Box 422
401 East State Street
4th Floor East
Trenton, NJ 08625-0422

Patricia Conti
NJDEP Air Compliance & Enforcement
Central Region
PO Box 407
300 Horizon Center
Robbinsville, NJ 08625-0407

Robert Confer
NJDEP Bureau of Landfill and Hazardous Waste Permitting
Solid and Hazardous Waste Management Program
PO Box 414
401 East State Street
Trenton, NJ 08625-0414

CERTIFICATE OF SERVICE

I HEREBY CERTIFY THAT ON **April 14, 2010**, I MAILED A TRUE COPY OF THE ATTACHED DOCUMENT BY **CERTIFIED MAIL-RETURN RECEIPT REQUESTED**, **ARTICLE NUMBERS 7005-1820-0004-0273-9581** POSTAGE PRE-PAID, UPON THE FOLLOWING PERSON(S):

**George Tyler, Esq.
Tyler & Carmeli, P. C.
1 AAA Drive, Suite 204
Robbinsville, New Jersey 08691**


Geraldo Villaran

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): Cinnamon Bay, LLC

Facility ID (AIMS): 17901

Street 3 BRICK PLANT RD
Address: EAST BRUNSWICK, NJ 08816

State Plane Coordinates:
X-Coordinate: 2,075,069
Y-Coordinate: 594,150
Units: Feet

Mailing PO BOX 520
Address: MILLTOWN, NJ 08850

Datum:
Source Org.:
Source Type:

County: Middlesex
Location Edgeboro Disposal, Inc.
Description: Edgeboro Road
East Brunswick, NJ 08816

Industry:
Primary SIC: 4911
Secondary SIC: 4953
NAICS: 221119

Mailing address for co-permittee:
Cinnamon Bay
PO Box 520
Milltown, NJ 08850

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Air Permit Information Contact

Organization: Tyler & Carmeli, P.C.

Org. Type: Corporation

Name: James Aversano

NJ EIN:

Title: Attorney at Law

Phone: (609) 631-0600 x

Mailing Address: 1 AAA Drive, Suite 204
Robbinsville, NJ 08691

Fax: () - x

Other: () - x

Type:

Email: javersano@tcglaw.com

Contact Type: BAQE - Engineering

Organization: Rambol/Sadat Associates

Org. Type: Corporation

Name: Alan Shimada (CB)/Lahbib Chibani (EDI)

NJ EIN:

Title:

Phone: (973) 286-4263 x

Mailing Address:

Fax: () - x

Other: () - x

Type:

Email: ashimada@ramboll.com/ lchibani@sadat.com

Contact Type: BAQE - Evaluation

Organization: Rambol/Sadat Associates

Org. Type: Corporation

Name: Alan Shimada (CB)/Lahbib Chibani (EDI)

NJ EIN:

Title:

Phone: (973) 286-4263 x

Mailing Address:

Fax: () - x

Other: () - x

Type:

Email: ashimada@ramboll.com/ lchibani@sadat.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: BOP - Operating Permits

Organization: Rambol/Sadat Associates

Org. Type: Corporation

Name: Alan Shimada (CB)/Lahbib Chibani (EDI)

NJ EIN:

Title:

Phone: (973) 286-4263 x

**Mailing
Address:**

Fax: () - x

Other: () - x

Type:

Email: ashimada@ramboll.com/ lchibani@sadat.com

Contact Type: BTS - Technical Services

Organization: Rambol/Sadat Associates

Org. Type: Corporation

Name: Alan Shimada (CB)/Lahbib Chibani (EDI)

NJ EIN:

Title:

Phone: (973) 286-4263 x

**Mailing
Address:**

Fax: () - x

Other: () - x

Type:

Email: ashimada@ramboll.com/ lchibani@sadat.com

Contact Type: Consultant

Organization: Rambol/Sadat Associates

Org. Type: Corporation

Name: Alan Shimada (CB)/Lahbib Chibani (EDI)

NJ EIN:

Title:

Phone: (973) 286-4263 x

**Mailing
Address:**

Fax: () - x

Other: () - x

Type:

Email: ashimada@ramboll.com/ lchibani@sadat.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Emission Statements

Organization: Rambol/Sadat Associates

Org. Type: Corporation

Name: Alan Shimada (CB)/Lahbib Chibani (EDI)

NJ EIN:

Title:

Phone: (973) 286-4263 x

**Mailing
Address:**

Fax: () - x

Other: () - x

Type:

Email: ashimada@ramboll.com/ lchibani@sadat.com

Contact Type: Environmental Officer

Organization: Cinnamon Bay, LLC & Edgeboro Disposal, Inc.

Org. Type:

Name: William Stetson

NJ EIN:

Title: Project Manager

Phone: (732) 227-1356 x

**Mailing
Address:** PO Box 520
Milltown, NJ 08850

Fax: (732) 227-1329 x

Other: (732) 869-8616 x

Type: Mobile

Email: wstetson@edgeboro.com

Contact Type: EPA Official

Organization: Tyler & Carmeli, P.C.

Org. Type: Corporation

Name: James Aversano

NJ EIN:

Title: Attorney at Law

Phone: (609) 631-0600 x

**Mailing
Address:** 1 AAA Drive, Suite 204
Robbinsville, NJ 08691

Fax: () - x

Other: () - x

Type:

Email: javersano@tcglaw.com

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Fees/Billing Contact

Organization: Cinnamon Bay, LLC & Edgeboro Disposal, Inc. **Org. Type:** Other
Name: Joan L. Dorrian **NJ EIN:**
Title: Member (CB)/Secretary & Treasurer (EDI)
Phone: () - x **Mailing Address:** PO Box 520
Fax: () - x Milltown, NJ 08850
Other: () - x
Type:
Email: jdorrian@edgeboro.com

Contact Type: General Contact

Organization: Cinnamon Bay, LLC & Edgeboro Disposal, Inc. **Org. Type:** Other
Name: Jack Whitman **NJ EIN:** 00223711021
Title: Managing Member (CB)/President (EDI)
Phone: () - x **Mailing Address:** PO Box 520
Fax: () - x Milltown, NJ
Other: () - x
Type:
Email: JWhitman@Edgeboro.com

Contact Type: On-Site Manager

Organization: Cinnamon Bay, LLC & Edgeboro Disposal, Inc. **Org. Type:**
Name: Taya Aiello (CBE) / Jack S Whitman (EDI) **NJ EIN:**
Title: Project Manager/General Manager
Phone: (732) 227-1356 x **Mailing Address:** PO Box 520
Fax: (732) 227-1329 x Milltown, NJ 08850
Other: (732) 228-0460 x
Type: Mobile
Email: taiello@cinbayllc.com

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Operator

Organization: Cinnamon Bay, LLC & Edgeboro Disposal, Inc. **Org. Type:**

Name: **NJ EIN:**

Title:

Phone: () - x

**Mailing
Address:**

Fax: () - x

Other: () - x

Type:

Email:

Contact Type: Owner (Current CO-1)

Organization: Cinnamon Bay, LLC **Org. Type:**

Name: **NJ EIN:**

Title:

Phone: () - x

**Mailing
Address:** P.O. Box 520
Milltown, NJ 08850

Fax: () - x

Other: () - x

Type:

Email:

Contact Type: Owner (Current CO-2)

Organization: Edgeboro Disposal, Inc. **Org. Type:**

Name: **NJ EIN:**

Title:

Phone: () - x

**Mailing
Address:** P.O. Box 6478
East Brunswick, NJ 08816

Fax: () - x

Other: () - x

Type:

Email:

**New Jersey Department of Environmental Protection
Facility Profile (General)**

Contact Type: Responsible Official

Organization: Cinnamon Bay, LLC & Edgeboro Disposal, Inc.

Org. Type: LLC

Name: Jack Whitman

NJ EIN: 00223711021

Title: Managing Member (CB) / President (EDI)

Phone: () - x

Mailing PO Box 520

Fax: () - x

Address: Milltown, NJ

Other: () - x

Type:

Email: JWhitman@Edgeboro.com

New Jersey Department of Environmental Protection
 Non-Source Fugitive Emissions

FG NJID	Description of Activity Causing Emission	Location Description	Reasonable Estimate of Emissions (tpy)									
			VOC (Total)	NOx	CO	SO	TSP (Total)	PM-10	Pb	HAPS (Total)	Other (Total)	
FG1	Equipment Cleaning Operations	Facility Wide	0.100									
FG3	Maintenance Activities	Facility Wide	0.100									
FG4	Equipment/Component Leaks	Facility Wide	0.350									
Total			0.550	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000	

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)
IS1	VOC storage tanks less than 2,000 gallon capacity with vapor pressure less than 0.02 psia at standard conditions	Storage Vessel	Facility-Wide	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS3	Small parts degreaser with top opening < six square feet or less than 100 gallon capacity	Degreaser (Conveyorized: Unheated)	Facility-Wide	0.020	0.170	0.040	0.010	0.010	0.010	0.000	0.00000000	0.000
IS4	Miscellaneous dust operations	Other Equipment		0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.00000000	0.000
IS6	2,000-gallon new oil storage tank with vapor pressure less than 0.02 psia at standard conditions	Storage Vessel		0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
IS7	2,000-gallon spent oil storage tank with vapor pressure less than 0.02 psia at standard conditions	Storage Vessel	Facility-Wide	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	0.000
Total				0.272	0.170	0.040	0.010	0.260	0.260	0.000	0.00000000	0.000

BOP170001

**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	GenSet 1	Cinnamon Bay Generator Set #1	Stationary Reciprocating Engine	BOP100001		No	8/11/1998	
E2	GenSet 2	Cinnamon Bay Generator Set #2	Stationary Reciprocating Engine	BOP100001		No		
E3	GenSet 3	Cinnamon Bay Generator Set #3	Stationary Reciprocating Engine	BOP100001		No		
E4	GenSet 4	Cinnamon Bay Generator Set #4	Stationary Reciprocating Engine	BOP100001		No		
E5	GenSet 5	Cinnamon Bay Generator Set #5	Stationary Reciprocating Engine	BOP100001		No		
E6	GenSet 6	Cinnamon Bay Generator Set #6	Stationary Reciprocating Engine	BOP100001		No		
E7	Landfill	Edgeboro Landfill	Landfill			No		
E8	Standby Gen	Cinnamon Bay Standby Generator	Emergency Generator	GEN000001		No		

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 E1 (Stationary Reciprocating Engine)
Print Date: 11/16/2018

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="G3520C"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>	16.1
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	2233
Electric Output(KW):	<input type="text"/>	1600
Compression Ratio:	<input type="text"/>	11.3
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	1200
Engine Exhaust Temperature (°F):	<input type="text"/>	898
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	1.71
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	6354
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input checked="" type="checkbox"/>	Ignition Timing Retard <input checked="" type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 E2 (Stationary Reciprocating Engine)
Print Date: 11/16/2018

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="G3520C"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>	16.1
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	2233
Electric Output(KW):	<input type="text"/>	1600
Compression Ratio:	<input type="text"/>	11.3
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	1200
Engine Exhaust Temperature (°F):	<input type="text"/>	898
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	1.71
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	6354
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input checked="" type="checkbox"/>	Ignition Timing Retard <input checked="" type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 E3 (Stationary Reciprocating Engine)
Print Date: 11/16/2018

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="G3520C"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>	16.1
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	2233
Electric Output(KW):	<input type="text"/>	1600
Compression Ratio:	<input type="text"/>	11.3
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	1200
Engine Exhaust Temperature (°F):	<input type="text"/>	898
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	1.71
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	6354
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input checked="" type="checkbox"/>	Ignition Timing Retard <input checked="" type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?
		<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 E4 (Stationary Reciprocating Engine)
Print Date: 11/16/2018

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="G3520C"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>	16.1
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	2233
Electric Output(KW):	<input type="text"/>	1600
Compression Ratio:	<input type="text"/>	11.3
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	1200
Engine Exhaust Temperature (°F):	<input type="text"/>	898
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	1.71
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	6354
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input checked="" type="checkbox"/>	Ignition Timing Retard <input checked="" type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?
		<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 E5 (Stationary Reciprocating Engine)
Print Date: 11/16/2018

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="G3520C"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>	16.1
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	2233
Electric Output(KW):	<input type="text"/>	1600
Compression Ratio:	<input type="text"/>	11.3
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	1200
Engine Exhaust Temperature (°F):	<input type="text"/>	898
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	1.71
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	6354
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input checked="" type="checkbox"/>	Ignition Timing Retard <input checked="" type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 E6 (Stationary Reciprocating Engine)
Print Date: 11/16/2018

Make:	<input type="text"/>	
Manufacturer:	<input type="text" value="Caterpillar"/>	
Model:	<input type="text" value="G3520C"/>	
Maximum Rated Gross Heat Input (MMBtu/hr):	<input type="text"/>	16.1
Class:	<input type="text" value="Lean Burn"/>	
Description:	<input type="text"/>	
Duty:	<input type="text" value="Base Loaded"/>	
Description:	<input type="text"/>	
Minimum Load Range (%):	<input type="text"/>	
Maximum Load Range (%):	<input type="text"/>	
Stroke:	<input type="text" value="4-stroke"/>	
Power Output (BHP):	<input type="text"/>	2233
Electric Output(KW):	<input type="text"/>	1600
Compression Ratio:	<input type="text"/>	11.3
Ignition Type:	<input type="text" value="Spark"/>	
Description:	<input type="text"/>	
Engine Speed (RPM):	<input type="text"/>	1200
Engine Exhaust Temperature (°F):	<input type="text"/>	898
Air to Fuel Ratio at Peak Load:	<input type="text"/>	
Ratio Basis:	<input type="text"/>	
Lambda Factor (scfm/scfm):	<input type="text"/>	1.71
Brake Specific Fuel Consumption at Peak Load (Btu/BHP-hr):	<input type="text"/>	6354
Output Type:	<input type="text" value="Electric"/>	
Heat to Power Ratio:	<input type="text"/>	
Is the Engine Using a Turbocharger?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using an Aftercooler?	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Is the Engine Using (check all that apply):		
A Prestratified Charge (PSC)	<input type="checkbox"/>	A NOx Converter <input type="checkbox"/>
Air to Fuel Adjustment (AF)	<input checked="" type="checkbox"/>	Ignition Timing Retard <input checked="" type="checkbox"/>
Low Emission Combustion	<input checked="" type="checkbox"/>	Non-Selective Catalytic Retard (NSCR) <input type="checkbox"/>
Other	<input type="checkbox"/>	
Description:	<input type="text"/>	
Have you attached a diagram showing the location and/or the configuration of this equipment?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? <input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text"/>	

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O2 in addition to lbs/hr and tons/yr.

Pollutant	Concentration	Units
Amines		
CO2		
Chlorides		
H2S		
Mercaptans		
Mercury		
Methane		
Non-Methane Hydrocarbons		

Solid Waste Facility Permit Number:

Year Opened:

Solid Waste Facility Permit Issuance Date:

Expected Year of Closure:

Actual Year of Closure:

Total Design Area (acres):

Total Design Capacity (million megagrams):

Active Area (acres):

Capped Area (acres):

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 (ft³/yr):

Model used to estimate Landfill Gas Production:

Is there a Landfill Gas Pre-Treatment System? Yes No

Method of Landfill Gas Pre-Treatment:

Design Capacity of Landfill Gas Collection System (acfm):

Overall Collection Efficiency(%):

Landfill Gas Mover/Blower size (hp):

Number of Extraction Wells:

Extraction Well Diameter (ft):

Extraction Well Depth (ft):

Extraction Well Overlap (%):

Extraction Well Operating Vacuum (in. H2O):

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:

A proposed SAGPack 6.0 Gas Conditioning System will provide landfill gas dehydration and siloxane removal prior to firing in the GenSets. The pre-treatment system will include compression, dewatering that will reduce the dew point by at least 20 degrees Fahrenheit, and a filter with an absolute rating no greater than 10 microns.

Make: Elliott MagneTek

Manufacturer:

Model: 500 RD

Maximum rated Gross Heat Input (MMBtu/hr-HHV): 5.06

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:

BOP170001

**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
CD7	EnFlare #1	EDI Enclosed Flare #1	Flare		No		
CD8	EnFlare #2	EDI Enclosed Flare #2	Flare		No		
CD9	8" Candle	8" Candlestick Flare	Flare		No		
CD10	6" Candle	6" Candlestick Flare	Flare		No		
CD11	TreatSystem	Cinnamon Bay Gas Pre-Treatment System (Owned by EDI and operated by Cinnamon Bay)	Other		No		

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 CD7 (Flare)
Print Date: 11/16/2018

Make:	John Zink
Manufacturer:	John Zink
Model:	ZTOF9X40
Type:	Enclosed
Minimum Residence Time (sec):	0.90
Maximum Rated Gross Heat Input (MMBtu/hr):	60.00
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	UV and Temperature Recorders
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Gas Flow Rate (acfm):	800.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	273.00
Flare Operation Type:	Emergency Use
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	104.00
Lower Heat Content of source gas (BTU/scf):	273
Lower Heat Content of Supplemental Fuel (BTU/scf):	2316
Destruction and Removal Efficiency (%):	98.00
How was Efficiency determined?	Vendor Supplied
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:	UV, Flow and Temperature Recorder
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 CD7 (Flare)

Print Date: 11/16/2018

Yes No

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

Yes No

Comments:

17901 CINNAMON BAY LLC_EDGEBORO DISPOSAL INC BOP170001 CD8 (Flare)
Print Date: 11/16/2018

Make:	John Zink
Manufacturer:	John Zink
Model:	ZTOF9X40
Type:	Enclosed
Minimum Residence Time (sec):	0.90
Maximum Rated Gross Heat Input (MMBtu/hr):	60.00
Auxilliary Fuel:	Propane
Description:	
Method of Pilot Flame Monitoring:	UV and Temperature Recorders
Monitoring Location:	Local
Automatic Gas Shutoff After Loss of Flame?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Automatic Reignition After Loss of Flame?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Minimum Gas Flow Rate (acfm):	800.0
Minimum Operating Temperature (°F):	1,500.0
Minimum Heat Content at Burner Tip (Btu/ft³):	273.00
Flare Operation Type:	Emergency Use
Does Flare have smokeless design?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame retainer?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with flame arrestor?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is Flare equipped with LEL monitor?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Flare Stack Diameter (inches):	104.00
Lower Heat Content of source gas (BTU/scf):	273
Lower Heat Content of Supplemental Fuel (BTU/scf):	2316
Destruction and Removal Efficiency (%):	98.00
How was Efficiency determined?	Vendor Supplied
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:	UV, Flow and Temperature Recorder
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	

17901 CINNAMON BAY LLC _EDGEBORO DISPOSAL INC BOP170001 CD8 (Flare)

Print Date: 11/16/2018

Yes No

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

Yes No

Comments:

Make:

Manufacturer:

Model:

Type:

Minimum Residence Time (sec):

Maximum Rated Gross Heat Input (MMBtu/hr):

Auxilliary Fuel:

Description:

Method of Pilot Flame Monitoring:

Monitoring Location:

Automatic Gas Shutoff After Loss of Flame? Yes No

Automatic Reignition After Loss of Flame? Yes No

Minimum Gas Flow Rate (acfm):

Minimum Operating Temperature (°F):

Minimum Heat Content at Burner Tip (Btu/ft³):

Flare Operation Type:

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):

Lower Heat Content of source gas (BTU/scf):

Lower Heat Content of Supplemental Fuel (BTU/scf):

Destruction and Removal Efficiency (%):

How was Efficiency determined?

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 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

17901 CINNAMON BAY LLC _EDGEBORO DISPOSAL INC BOP170001 CD9 (Flare)

Print Date: 11/16/2018

Yes No

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

Yes No

Comments:

Heat input based on 3250 scfm and 525 Btu/scf for landfill gas.

Make:

Manufacturer:

Model:

Type:

Minimum Residence Time (sec):

Maximum Rated Gross Heat Input (MMBtu/hr):

Auxilliary Fuel:

Description:

Method of Pilot Flame Monitoring:

Monitoring Location:

Automatic Gas Shutoff After Loss of Flame? Yes No

Automatic Reignition After Loss of Flame? Yes No

Minimum Gas Flow Rate (acfm):

Minimum Operating Temperature (°F):

Minimum Heat Content at Burner Tip (Btu/ft³):

Flare Operation Type:

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):

Lower Heat Content of source gas (BTU/scf):

Lower Heat Content of Supplemental Fuel (BTU/scf):

Destruction and Removal Efficiency (%):

How was Efficiency determined?

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 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?

17901 CINNAMON BAY LLC _EDGEBORO DISPOSAL INC BOP170001 CD10 (Flare)

Print Date: 11/16/2018

Yes No

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

Yes No

Comments:

Make:

Manufacturer:

Model:

Maximum Air Flow Rate to Control Device (acfm):

Maximum Temperature of Vapor Stream to Control Device (°F):

Minimum Temperature of Vapor Stream to Control Device (°F):

Minimum Moisture Content of Vapor Stream to Control Device (%):

Minimum Pressure Drop Across Control Device (in. H2O):

Maximum Pressure Drop Across Control Device (in. H2O):

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 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:

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	Engine Stack	Combined stack for (6) Cinnamon Bay engines	Round	72	83	113	924.0	864.0	984.0	47,000.0	6,770.0	94,000.0	Up	
PT2	EnFlare #1	EDI - Enclosed Flare #1	Round	104	40	25	1,600.0	1,500.0	2,000.0	5,830.0	3,713.0	7,396.0	Up	
PT3	EnFlare #2	EDI - Enclosed Flare #2	Round	104	40	25	1,600.0	1,500.0	2,000.0	5,830.0	3,713.0	7,396.0	Up	
PT4	Standby Gen	Stack for standby generator	Round	4	16	10	1,035.0	1,400.0	2,000.0	4,117.0	0.0	250,000.0	Up	
PT5	8" Candle	8" Candlestick Flare	Round	8	18	25	500.0	250.0	1,500.0	1,800.0	100.0	4,400.0	Up	
PT6	6" Candle	6" Candlestick Flare	Round	6	18	25	500.0	250.0	1,500.0	800.0	65.0	2,400.0	Up	

BOP170001

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

U 1 GenSets 6 Cinnamon Bay Generator Sets, subject to MACT Subpart ZZZZ & NSPS Subpart JJJJ

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	GenSet#1	Cinnamon Bay Generator Set #1	Normal - Steady State	E1		PT1	2-01-008-02 1-02-006-02		8,760.0		7,020.0	70,200.0	300.0	400.0
OS2	GenSet#2	Cinnamon Bay Generator Set #2	Normal - Steady State	E2		PT1	2-01-008-02							
OS3	GenSet#3	Cinnamon Bay Generator Set #3	Normal - Steady State	E3		PT1	2-01-008-02		8,760.0					
OS4	GenSet#4	Cinnamon Bay Generator Set #4	Normal - Steady State	E4		PT1	2-01-008-02							
OS5	GenSet#5	Cinnamon Bay Generator Set #5	Normal - Steady State	E5		PT1	2-01-008-02		8,760.0					
OS6	GenSet#6	Cinnamon Bay Generator Set #6	Normal - Steady State	E6		PT1	2-01-008-02		8,760.0					

U 2 Landfill EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Flare LFG	EDI - Edgeboro Landfill Gas sent to Enclosed Flare #1	Standby	E7	CD7 (P)	PT2	5-02-006-01							
OS2	Flare LFG	EDI - Edgeboro Landfill Gas sent to Enclosed Flare #2	Standby	E7	CD8 (P)	PT3	5-02-006-01							

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

U 2 Landfill EDI - Closed Edgeboro Landfill, subject to MACT Subpart AAAA & NSPS Subpart WWW

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS3	Open Flare 1	EDI - Edgeboro Landfill Gas sent to 8" Candlestick Flare (Emergency Operation)	Standby	E7	CD9 (P)	PT5	5-02-006-01							
OS4	Open Flare 1	EDI - Edgeboro Landfill Gas sent to 6" Candlestick Flare (Emergency Operation)	Standby	E7	CD10 (P)	PT6	5-02-006-01							
OS5	GCCS	Control System (Treatment System)	Normal - Steady State	E7	CD11 (P)									

U 3 Standby Gen EDI Standby Emergency Generator, subject to MACT Subpart ZZZZ

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	Standby Gen	EDI Standby generator	Normal - Steady State	E8		PT4	2-01-001-02							

**New Jersey Department of Environmental Protection
Subject Item Group Inventory**

Group NJID: GR1 EngineFlares

Members:

Type	ID	OS	Step
U	U 1	OS0 Summary	
U	U 2	OS0 Summary	

Condition/Requirements that will be complied with or are no longer applicable as a result of this Group:

Operating Circumstances: