

New York State Department of Environmental Conservation
Facility DEC ID: 9292400016



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-2924-00016/00053
Mod 0 Effective Date: 04/09/2002 Expiration Date: 04/09/2007
Mod 1 Effective Date: 01/07/2004 Expiration Date: 04/09/2007

Permit Issued To: MODERN LANDFILL INC
PO BOX 209
MODEL CITY, NY 14107-0209

Contact: JIM GOEHRIG
MODERN LANDFILL INC
PO BOX 209
MODEL CITY, NY 14107

Facility: MODERN LANDFILL INC
PLETCHER ROAD
MODEL CITY, NY 14107

Description:
Modern Landfill Inc.
Title V Permit
Site Description

Modern operates a sanitary landfill facility located at Pletcher and Harold Roads in Model City, New York. The landfill is permitted by the New York State Department of Environmental Conservation (NYSDEC) under 6 NYCRR Part 360, Solid Waste Management Facilities Regulations. The facility accepts municipal solid waste (MSW) and certain permitted non-hazardous industrial or special wastes. The landfill operations at the facility cover 232 acres and include: waste handling, tipping, covering, compacting, hauling, recyclable material sorting, construction & demolition (C&D) debris processing, tire shredding, leachate storage as well as equipment maintenance operations. The landfill has a landfill gas collection system which conveys collected LFG to an on-site 1500 CFM flare (with provisions to add an additional 3000 CFM flare for 40 CFR 60 Subpart WWW compliance when LFG generation rates exceed the existing flare's capacity). The Standard Industrial Classification (SIC) for the Modern landfill facility is 4953.

Modern Landfill is permitted to burn a small quantity of landfill gas for comfort heat in space heaters in the maintenance garage should performance testing indicate compliance with subpart WWW emission limits for non-methane organic compounds (NMOCs). A proposed 3000 CFM flare for anticipated gas generation from presently permitted landfill operations will also require compliance testing once it is started up.



New York State Department of Environmental Conservation
Facility DEC ID: 9292400016

This permit modification , which does not entail an increase in annual air emissions, will allow an increase in the annual placement rate of municipal solid waste into the landfill from 615,000 tons per year to 815,000 tons per year. Also, facility volatile organic carbon (VOC) and oxides of nitrogen (NOx) emissions are capped below 50 tons per year and 100 tons per year, respectively, to avoid applicability of New Source Review (NSR) under 6NYCRR Part 231-2. In addition, facility carbon monoxide (CO) emissions are capped below 250 tons per year to avoid applicability of Prevention of Significant Deterioration (PSD) under 40CFR52.21, Subpart A.

There are four emission units at the facility as follows:

1-LFGAS - described as landfilling activities which includes and existing 1500 cubic feet per minute (CFM) enclosed flare to combust landfill gas (LFG) and a proposed 3000 CFM flare for anticipated gas landfill operations.

2-LEACH - described as leachate storage and handling.
lebris processing.

4-TIRES - described as tire processing, shredding and reclamation.

The facility operation is permitted primarily under the following regulations:

- 1.) 40 CFR 60 Subpart WWW New Source Performance Standards for Municipal Solid Waste Landfills.
1 a Title V permit .

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: DAVID S DENK
 DIVISION OF ENVIRONMENTAL PERMITS
 270 MICHIGAN AVE

, NY 14203-2999

Authorized Signature: _____ Date: ___ / ___ / _____



Notification of Other State Permittee Obligations

d Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

Facility Inspection by the Department

Orders and Determinations

Applications for Permit Renewals and Modifications

Applications for Permit Renewals and Modifications

Locations by the Department

Locations by the Department

Facility Level

Renewal or Renewal -REGION 9

HEADQUARTERS



DEC GENERAL CONDITIONS

**** General Provisions ****

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Permit Orders and Determinations

Applicable State Requirement: ECL 3-0301.2(m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 1-1: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6NYCRR 621.13

Item 1-1.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 1-1.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 1-1.3:



New York State Department of Environmental Conservation
Facility DEC ID: 9292400016

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 3: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6NYCRR 621.13(a)

Expired by Mod No: 1

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Standard Revocations by the Department

Applicable State Requirement: 6NYCRR 621.14

Item 1-2.1:

The Department reserves the right to modify, suspend, or revoke this permit in accordance with 6NYCRR. Revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Standard Revocations by the Department

Applicable State Requirement: 6NYCRR 621.14

Expired by Mod No: 1

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.



****** Facility Level ******

Modification or Renewal -REGION 9

HEADQUARTERS

Applicable State Requirement: 6NYCRR 621.5(a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
270 Michigan Avenue
Buffalo, NY 14203-2999
(716) 851-7165



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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PO BOX 209
MODEL CITY, NY 14107-0209

Facility: MODERN LANDFILL INC
PLETCHER ROAD
MODEL CITY, NY 14107

Authorized Activity By Standard Industrial Classification Code:
4953 - REFUSE SYSTEMS

Mod 0 Permit Effective Date: 04/09/2002



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 24 Emission Unit Definition
- 1-1 Recordkeeping and reporting of compliance monitoring
- 1-2 Monitoring, Related Recordkeeping, and Reporting Requirements.
- 1-3 Compliance Certification
- 1-4 Compliance Certification
- 29 Compliance Certification
- 30 Recordkeeping requirements
- 33 EPA Region 2 address.
- 34 Excess emissions report.
- 35 Excess emissions report.
- 36 Facility files for subject sources.
- 37 Prior notice.
- 38 Performance testing facilities.
- 39 Number of required tests.
- 40 Availability of information.
- 41 Circumvention.
- 42 Standards for air emissions from MSW landfills
- 43 Operational standards for collection and control systems
- 44 Compliance Certification
- 45 Compliance Certification
- 46 Compliance Certification
- 47 Compliance Certification
- 48 Compliance Certification
- 49 Compliance Certification
- 50 Compliance Certification
- 51 NMOC Calculation After Collection and Control System Installation
- 52 Performance Test
- 53 Compliance Provisions - collection system
- 54 Compliance Provisions - wells
- 55 Compliance Provisions - Start-up, shutdown, or malfunction
- 56 Compliance Certification
- 57 Monitoring of Operations - Enclosed Combustor
- 58 Compliance Certification
- 59 Reporting Requirements - Closure Report
- 60 Reporting Requirements - Control Equipment Removal
- 61 Compliance Certification
- 62 Reporting requirements - Collection and control system
- 63 Compliance Certification
- 64 Compliance Certification
- 65 Compliance Certification
- 66 Compliance Certification
- 67 Compliance Certification



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

- 68 Specifications for active collection systems
- 69 Asbestos-containing waste material standard for active waste disposal sites
- 1-5 General Provisions
- 1-6 Compliance Certification
- 1-7 Accidental release provisions.

Emission Unit Level

- 71 Emission Point Definition By Emission Unit
- 72 Process Definition By Emission Unit
- 1-8 Compliance Certification (EU=1-LFGAS)
- 1-9 Compliance Certification (EU=1-LFGAS)
- 1-10 Compliance Certification (EU=1-LFGAS)
- 1-11 Compliance Certification (EU=1-LFGAS)
- 73 Flare operation requirements.
- 74 Flare monitoring requirements.
- 75 General Control Device Requirements - Flares
- 76 Flare compliance testing.
- 77 Compliance Certification (EU=1-LFGAS)

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 1-12 Contaminant List
 - 79 Unavoidable noncompliance and violations
 - 83 Air pollution prohibited
- Permit Expiration Date: 04/09/2007

Mod 1 Permit Effective Date: 01/07/2004

Permit Expiration Date: 04/09/2007



FEDERALLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Sealing - 6NYCRR Part 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6NYCRR Part 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6NYCRR Part 200.7

Any person who owns or operates an air contamination

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6NYCRR Part 201-1.2

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Emergency Defense - 6NYCRR Part 201-1.5

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated;

(3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner and/or operator notified the Department within two working days after the event occurred. This notice must contain a description of the



emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item F: Recycling and Salvage - 6NYCRR Part 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item G: Prohibition of Reintroduction of Collected Contaminants to the Air - 6NYCRR Part 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item H: Public Access to Recordkeeping for Title V Facilities - 6NYCRR Part 201-1.10(b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item I: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR Part 201-3.2(a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



requirements, regulations, or law.

- Item J: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR Part 201-3.3(a)**
The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.
- Item K: Timely Application for the Renewal of Title V Permits - 6 NYCRR Part 201-6.3(a)(4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item L: Certification by a Responsible Official - 6 NYCRR Part 201-6.3(d)(12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item M: Requirement to Comply With All Conditions - 6 NYCRR Part 201-6.5(a)(2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item N: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission**

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Requirements - 6 NYCRR Part 201-6.5(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item O: Providing Information Upon Request - 6 NYCRR Part 201-6.5(a)(4)

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 the permit or to determine compliance with the permit. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Item P: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR Part 201-6.5(a)(5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item Q: Property Rights - 6 NYCRR Part 201-6.5(a)(6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item R: Fees - 6 NYCRR Part 201-6.5(a)(7)

The owner and/or operator of a stationary source shall pay fees to the department consistent with the fee schedule authorized by 6 NYCRR Subpart 482-2.

Item S: Right to Inspect - 6 NYCRR Part 201-6.5(a)(8)

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

- i. Enter upon the permittee's premises where the permitted

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



facility is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

iii. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Item T: Severability - 6 NYCRR Part 201-6.5(a)(9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item U: Progress Reports and Compliance Schedules - 6 NYCRR Part 201-6.5(d)(5)

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. Such progress reports shall contain the following:

i. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

ii. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Item V: Off Permit Changes - 6 NYCRR Part 201-6.5(f)(6)

No permit revision will be required for operating changes that contravene an express permit term, provided that such

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the Administrator and the Department with written notification in advance of the proposed changes within a minimum of 7 days as required by 6 NYCRR §201-6.5(f)(6).

Item W: Permit Shield - 6 NYCRR Part 201-6.5(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item X: Reopening for Cause - 6 NYCRR Part 201-6.5(i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



a shorter time period in the case of an emergency.

Item Y: Required Emission Tests - 6 NYCRR Part 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6NYCRR Part 202-1.

Item Z: Visible Emissions Limited - 6 NYCRR Part 211.3

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Item AA: Open Fires - 6 NYCRR Part 215

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Item BB: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item CC: Federally Enforceable Requirements - 40 CFR 70.6(b)

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 24: Emission Unit Definition

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 201-6

Item 24.1(From Mod 1):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-LFGAS

Emission Unit Description:

THIS UNIT CONSISTS OF THE LANDFILL AREA THAT GENERATES LANDFILL GAS (LFG), AN ACTIVE COLLECTION SYSTEM, A 1,500-CFM ENCLOSED FLARE TO COMBUST THE LFG AND PROVISIONS FOR FUTURE INSTALLATION/OPERATION OF A 3,000 CFM ENCLOSED FLARE. THIS UNIT ALSO CONTAINS SIX SPACE HEATERS (WHICH DISCHARGE TO SEVEN EMISSION POINTS) IN THE MAINTENANCE GARAGE WHICH ARE BEING CONVERTED FROM BURNING PROPANE GAS TO LFG.

Building(s): OUTSIDE

Item 24.2(From Mod 0):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 2-LEACH

Emission Unit Description:

THIS UNIT CONSISTS OF ONE 1.1 MILLION-GALLON, ABOVE-GROUND, VERTICAL FIXED ROOF LEACHATE STORAGE TANK AND ONE WATER TRUCK USED TO SPRAY LEACHATE BACK



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

ONTO THE ACTIVE LANDFILL AREA IN THE
LEACHATE RECIRCULATION PROCESS.

Item 24.3(From Mod 0):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 3-CDDEB

Emission Unit Description:

THIS UNIT CONSISTS OF A RUBBLE PROCESSING
PLANT FOR CRUSHING CONSTRUCTION AND
DEMOLITION MATERIAL, A VIBRATING SCREEN TO
SORT MATERIAL BY SIZE AND A WATER SPRAY BAR
TO DECREASE DUST EMISSIONS.

Building(s): OUTSIDE

Item 24.4(From Mod 0):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 4-TIRES

Emission Unit Description:

THIS UNIT CONSISTS OF A TIRE SHREDDER
POWERED BY A 350 KILOWATT DIESEL GENERATOR
AND TROMMEL SCREEN WHICH IS POWERED BY A
100 HP DIESEL ENGINE. THE SHAKER TABLE IS
EQUIPPED WITH CYCLONES AND BAG FILTERS TO
CONTROL DUST EMISSIONS. THESE UNITS VENT
WITHIN AN ENCLOSURE.

Building(s): OUTSIDE
TIRE BLDG

**Condition 1-1: Recordkeeping and reporting of compliance monitoring
Effective between the dates of 01/07/2004 and 04/09/2007**

Applicable Federal Requirement: 6NYCRR 201-6.5(c)

Item 1-1.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



(vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

Condition 1-2: Monitoring, Related Recordkeeping, and Reporting Requirements.

Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(2)

Item 1-2.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

Condition 1-3: Compliance Certification

Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)(ii)

Item 1-3.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-3.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 60 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

(1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.

(2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.

(3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2004.

Subsequent reports are due every 6 calendar month(s).

Condition 1-4: Compliance Certification

Effective between the dates of 01/07/2004 and 04/09/2007



Applicable Federal Requirement: 6NYCRR 201-6.5(e)

Item 1-4.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-4.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

270 Michigan Avenue
Buffalo, NY 14203-2999

The address for the BCME is as follows:

NYSDEC
Bureau of Compliance Monitoring
and Enforcement
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2003.
Subsequent reports are due on the same day each year

Condition 29: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 202-2.1

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

Condition 30: Recordkeeping requirements

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 202-2.5

Item 30.1:

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 33: EPA Region 2 address.

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 33.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

NYSDEC
Bureau of Enforcement and Compliance Assurance
625 Broadway
Albany, NY 12233-3258

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Condition 34: Excess emissions report.
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.7(c), NSPS Subpart A

Item 34.1:

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each calendar quarter (or as appropriate), and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 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; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Condition 35: Excess emissions report.
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.7(d), NSPS Subpart A

Item 35.1:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 36: Facility files for subject sources.
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.7(f), NSPS Subpart A

Item 36.1:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 37: Prior notice.
Effective between the dates of 04/09/2002 and 04/09/2007

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Applicable Federal Requirement: 40CFR 60.8(d), NSPS Subpart A

Item 37.1:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 38: Performance testing facilities.

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.8(e), NSPS Subpart A

Item 38.1:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 39: Number of required tests.

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.8(f), NSPS Subpart A

Item 39.1:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 40: Availability of information.

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.9, NSPS Subpart A

Item 40.1:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by 40 CFR Part 2.

Condition 41: Circumvention.

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.12, NSPS Subpart A



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Item 41.1:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

**Condition 42: Standards for air emissions from MSW landfills
Effective between the dates of 04/09/2002 and 04/09/2007**

Applicable Federal Requirement: 40CFR 60.752(b)(2), NSPS Subpart WWW

Item 42.1:

If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:

i) Submit a collection and control system design plan prepared by a professional engineer to the Administrator within 1 year:

A) The collection and control system as described in the plan shall meet the design requirements of paragraph (ii) below.

B) The collection and control system design plan shall include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of 40 CFR Part 60.753 through 60.758 proposed by the owner or operator.

C) The collection and control system design plan shall either conform with specifications for active collection systems in 40 CFR Part 60.759 or include a demonstration to the Administrator's satisfaction of the sufficiency of the alternative provisions to 40 CFR Part 60.759.

D) The Administrator shall review the information submitted under paragraphs (i)(A), (B) and (C) above and either approve it, disapprove it, or request that additional information be submitted. Because of the many site-specific factors involved with landfill gas system design, alternative systems may be necessary. A wide variety of system designs are possible, such as vertical wells, combination horizontal and vertical collection systems, or horizontal trenches only, leachate collection components, and passive systems.

ii) Install a collection and control system that captures the gas generated within the landfill as required by paragraphs (ii)(A) or (B) and (iii) below, within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, as specified in 40 CFR Part 60.757(c)(1) or (2).

A) An active gas collection system shall:

1) be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



2) collect gas from each area, cell or group of cells in the landfill in which the initial solid waste has been placed for a period of 5 years (if active) or 2 years (if closed or at final grade);

3) collect gas at a sufficient extraction rate; and

4) be designed to minimize off-site migration of subsurface gas.

(B) A passive collection system shall:

(1) Comply with the provisions specified in paragraphs (A)(1),(2), and (4) above.

(2) Be installed with liners on the bottom and all sides in all areas in which gas is to be collected. The liners shall be installed as required under 40 CFR Part 258.40 of this title.

iii) Route all the collected gas to a control system that complies with either of the following:

A) is an open flare designed and operated in accordance with 40 CFR 60.18; or

B) is a control system designed and operated to reduce NMOC by 98% (by weight) or, when an enclosed combustion device is used for control, to either reduce NMOC by 98% weight or reduce the NMOC outlet concentration to less than 20 parts per million by volume, dry basis as hexane at 3% 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 Part 60.754(d).

(1) If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone.

(2) 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 Part 60.756;

(C) Route the collected gas to a treatment system 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 of paragraph (ii)(A) or (B) above.

**Condition 43: Operational standards for collection and control systems
Effective between the dates of 04/09/2002 and 04/09/2007**

Applicable Federal Requirement: 40CFR 60.753(a), NSPS Subpart WWW

Item 43.1:

Each owner or operator of an MSW landfill with a gas collection and control system used to comply with the provisions of 40 CFR Part 60.752(b)(2)(ii) shall:

a) Operate the collection system such that gas is collected from each area, cell or group of cells



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

in the MSW landfill in which solid waste has been in place for:

- 1) 5 years or more if active; or
- 2) 2 years or more if closed or at final grade.

Condition 44: Compliance Certification

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(b), NSPS Subpart WWW

Item 44.1:

The Compliance Certification activity will be performed for the Facility.

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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. These records shall be submitted with the annual reports as provided in 40 CFR Part 60.757(f)(1).
- 2) Use of a geomembrane cover or an equivalent gas-impermeable synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan.
- 3) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: PRESSURE

Upper Permit Limit: 0 pounds per square inch gauge

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Condition 45: Compliance Certification

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(c), NSPS Subpart WWW

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Operate each interior wellhead in the collection system with an oxygen level in the landfill gas less than 5%. The owner or operator may establish a higher operating oxygen level 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.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: OXYGEN CONTENT

Upper Permit Limit: 4.9 percent

Reference Test Method: Method 3a

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(c), NSPS Subpart WWW

Item 46.1:

The Compliance Certification activity will be performed for the Facility.

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Operate each interior wellhead in the collection system



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

with a landfill gas temperature less than 55 degrees centigrade. The owner or operator may establish a higher operating temperature 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.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: LANDFILL GAS
Parameter Monitored: TEMPERATURE
Upper Permit Limit: 54.9 degrees Centigrade (or Celsius)
Monitoring Frequency: MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2002.
Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(d), NSPS Subpart WWW

Item 47.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 000074-82-8 METHANE

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: AMBIENT AIR MONITORING

Monitoring Description:

Operate the collection system so that the methane concentration is less than 500 part per million 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. The owner or operator may establish an alternative traversing pattern that ensures equivalent overage. A surface monitoring design plan shall be developed that includes a topographical map with the monitoring route and the rationale for any site-specific



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

deviations from the 30 meter intervals. Areas with steep slopes or other dangerous areas may be excluded from the surface testing.

The procedures as provided in 40 CFR 60.755(c) shall be used for compliance with the surface methane operational standard as provided in 40 CFR 60.753(d).

Parameter Monitored: METHANE

Upper Permit Limit: 499 parts per million (by volume)

Reference Test Method: 40CFR60 App A, M 21

Monitoring Frequency: QUARTERLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

Condition 48: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(e), NSPS Subpart WWW

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Operate the collection system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR Part 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 one hour.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: LANDFILL GAS

Upper Permit Limit: 1 hours

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Condition 49: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(f), NSPS Subpart WWW

Item 49.1:

The Compliance Certification activity will be performed for the Facility.

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operate the control or treatment system at all times when
the collected gas is routed to the system

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 50: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.753(g), NSPS Subpart WWW

Item 50.1:

The Compliance Certification activity will be performed for the Facility.

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If monitoring demonstrates that the operational
requirements of 40 CFR Part 60.753(b), (c) or (d) are not
met, corrective action shall be taken as specified in 40
CFR Part 60.755(a)(3) through (5) or 40 CFR Part
60.755(c). If corrective actions are taken as specified in
40 CFR Part 60.755, the monitored exceedance is not a
violation of the operational requirements in 40 CFR Part
60.753.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

**Condition 51: NMOC Calculation After Collection and Control System
Installation**



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.754(b), NSPS Subpart WWW

Item 51.1:

After the installation of a collection and control system in compliance with 40 CFR Part 60.755, the owner or operator shall calculate the NMOC emission rate for purposes of determining when the system can be removed as provided in 40 CFR Part 60.752(b)(2)(v), using the following equation:

$$M_{\text{NMOC}} = 1.89 \times 10^{-3} Q_{\text{LFG}} C_{\text{NMOC}}$$

where,

M_{NMOC} = mass emission rate of NMOC, megagrams per year

Q_{LFG} = flow rate of landfill gas, cubic meters per minute

C_{NMOC} = NMOC concentration, parts per million by volume as hexane

(1) The flow rate of landfill gas, Q_{LFG} , shall be determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device calibrated according to the provisions of section 4 of Method 2E of 40 CFR Part 60 Appendix A.

(2) The average NMOC concentration, C_{NMOC} , shall be determined by collecting and analyzing landfill gas sampled from the common header pipe before the gas moving or condensate removal equipment using the procedures in Method 25C or Method 18 of 40 CFR Part 60 Appendix A. If using Method 18 of 40 CFR Part 60 Appendix A, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The sample location on the common header pipe shall be before any condensate removal or other gas refining units. The landfill owner or operator shall divide the NMOC concentration from Method 25C of 40 CFR Part 60 Appendix A by six to convert from C_{NMOC} as carbon to C_{NMOC} as hexane.

(3) The owner or operator may use another method to determine landfill gas flow rate and NMOC concentration if the method has been approved by the Administrator.

Condition 52: Performance Test

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.754(d), NSPS Subpart WWW

Item 52.1:

For the performance test required in 40 CFR Part 60.752(b)(2)(iii)(B), Method 25, 25C or Method 18 of 40 CFR Part 60 Appendix A shall be used to determine compliance with the 98 weight-percent efficiency or the 20 ppmv outlet concentration level, unless another method to demonstrate compliance has been approved by the Administrator as provided by 40 CFR Part 60.752(b)(2)(i)(B). Method 3 or 3A shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), Method 25A should be used in place of Method 25. If using method 18, the minimum list of



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The following equation shall be used to calculate efficiency:

$$\text{Control Efficiency} = (\text{NMOC}_{\text{in}} - \text{NMOC}_{\text{out}}) / (\text{NMOC}_{\text{in}})$$

where,

NMOC_{in} = mass of NMOC entering control device

NMOC_{out} = mass of NMOC exiting control device

Condition 53: Compliance Provisions - collection system
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.755(a), NSPS Subpart WWW

Item 53.1:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), the specified methods in paragraphs (1) through (6) below, shall be used to determine whether the gas collection system is in compliance with 40 CFR Part 60.752(b)(2)(ii).

1) For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with 40 CFR Part 60.752(b)(2)(ii)(A)(1), the following equation shall be used. The k and L_0 kinetic factors should be those published in the most recent Compilation of Air Pollutant Emissions Factors (AP-42) or other site specific values demonstrated to be appropriate for this site and approved by the Administrator. If k has been determined as specified in 40 CFR Part 60.754(a)(4), the value of k determined from the test shall be used. The active life of the landfill is the age of the landfill plus the estimated number of years until closure.

ii) For waste sites with known year-to-year solid waste acceptance rate:

$$Q_M = \sum 2 k L_0 M_i (e^{-kt_i}) ,$$

where,

Q_M = maximum expected gas generation flow rate, cubic meters per year

k = methane generation rate constant, year⁻¹

L_0 = methane generation potential, cubic meters per megagram solid waste

M_i = mass of solid waste in the ith section, megagrams

t_i = age of the ith section (years).

2) For the purposes of determining sufficient density of gas collectors for compliance with 40 CFR Part 60.752(b)(2)(ii)(A)(2), the owner shall design a system of vertical wells, horizontal collectors, or other collection devices, satisfactory to the Administrator, capable of controlling and extracting gas from all portions of the landfill sufficient to meet all operational and performance standards.



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

3) For the purpose of demonstrating whether the gas collection system flow rate is sufficient to determine compliance with 40 CFR Part 60.752(b)(2)(ii)(A)(3), the owner or operator shall measure gauge pressure in the gas collection header at each individual well, monthly. 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 Part 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. An alternate timeline for correcting the exceedance may be submitted to the Administrator for approval.

4) Owners or operators are not required to expand the system as required in paragraph (3) above during the first 180 days after gas collection system startup.

5) For the purpose of identifying whether excess air infiltration into the landfill is occurring, the owner or operator shall monitor each well monthly for temperature and nitrogen or oxygen as provided in 40 CFR Part 60.753(c). 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. An alternative timeline for correcting the exceedance may be submitted to the Administrator for approval.

6) An owner or operator seeking to demonstrate compliance with 40 CFR Part 60.752(b)(2)(ii)(A)(4) through the use of a collection system not conforming to the specifications provided in 40 CFR Part 60.759 shall provide information satisfactory to the Administrator as specified in 40 CFR Part 60.752(b)(2)(i)(C) demonstrating that off-site migration is being controlled.

Condition 54: Compliance Provisions - wells
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.755(b), NSPS Subpart WWW

Item 54.1:

For purposes of compliance with 40 CFR Part 60.753(a), each owner or operator of a controlled landfill shall place each well or design component as specified in the approved design plan as provided in 40 CFR Part 60.752(b)(2)(i). Each well shall be installed no later than 60 days after the date on which the initial solid waste has been in place for a period of:

- 1) 5 years or more if active; or
- 2) 2 years or more if closed or at final grade.

Condition 55: Compliance Provisions - Start-up, shutdown, or malfunction
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.755(e), NSPS Subpart WWW

Item 55.1:

The provisions of this subpart apply at all times, except during periods of start-up, shutdown, or



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

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.

Condition 56: Compliance Certification

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.756(a), NSPS Subpart WWW

Item 56.1:

The Compliance Certification activity will be performed for the Facility.

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(ii)(A) for an active gas collection system shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:

(1) Measure the gauge pressure in the gas collection header on a monthly basis as provided in 40 CFR Part 60.755(a)(3); and

(2) Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 40 CFR Part 60.755(a)(5); and

(3) Monitor temperature of the landfill gas on a monthly basis as provided in 40CFR Part 60.755(a)(5).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

Condition 57: Monitoring of Operations - Enclosed Combustor

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.756(b), NSPS Subpart WWW

Item 57.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(iii) using an enclosed combustor shall calibrate, maintain, and operate according to the manufacturer's specifications, the



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

following equipment.

(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 °C, whichever is greater. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity greater than 44 megawatts.

(2) A device that records flow to or bypass of the control device. The owner or operator shall either:

(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

(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.

Condition 58: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.756(f), NSPS Subpart WWW

Item 58.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 000074-82-8 METHANE

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: AMBIENT AIR MONITORING

Monitoring Description:

Each owner or operator seeking to demonstrate compliance with 40 CFR Part 60.755(c), shall monitor surface concentrations of methane according to the instrument specifications and procedures provided in 40 CFR Part 60.755(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.

Parameter Monitored: METHANE
Upper Permit Limit: 499 parts per million (by volume)
Reference Test Method: Method 21



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

Condition 59: Reporting Requirements - Closure Report
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.757(d), NSPS Subpart WWW

Item 59.1:

Each owner or operator of a controlled landfill shall submit a closure report to the Administrator within 30 days of waste acceptance cessation. The Administrator may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR Part 258.60 of this title. If a closure report has been submitted to the Administrator, no additional wastes may be placed into the landfill without filing a notification of modification as described under 40 CFR Part 60.7(a)(4).

Condition 60: Reporting Requirements - Control Equipment Removal
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.757(e), NSPS Subpart WWW

Item 60.1:

Each owner or operator of a controlled landfill shall submit an equipment removal report to the Administrator 30 days prior to removal or cessation of operation of the control equipment.

(1) The equipment removal report shall contain all of the following items:

(i) A copy of the closure report submitted in accordance with 40 CFR Part 60.757(d) of this section;

(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.

(2) The Administrator may request such additional information as may be necessary to verify that all of the conditions for removal in 40 CFR Part 60.752(b)(2)(v) have been met.

Condition 61: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.757(f), NSPS Subpart WWW

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Item 61.1:

The Compliance Certification activity will be performed for the Facility.

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of a landfill seeking to comply with 40 CFR Part 60.752(b)(2) using an active collection system designed in accordance with 40 CFR Part 60.752(b)(2)(ii) shall submit to the Administrator annual reports of the recorded information in paragraphs (1) through (6) below. The initial annual report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR Part 60.8. For enclosed combustion devices and flares, reportable exceedances are defined under 40 CFR Part 60.758(c).

(1) Value and length of time for exceedance of applicable parameters monitored under 40 CFR Part 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 Part 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 Part 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 paragraphs 40 CFR Part 60.755(a)(3), (b), and (c)(4).



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2003.

Subsequent reports are due every 12 calendar month(s).

**Condition 62: Reporting requirements - Collection and control system
Effective between the dates of 04/09/2002 and 04/09/2007**

Applicable Federal Requirement: 40CFR 60.757(g), NSPS Subpart WWW

Item 62.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(iii) shall include the following information with the initial performance test report required under 40 CFR Part 60.8:

- 1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;
- 2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;
- 3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;
- 4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and
- 5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and
- 6) The provisions for the control of off-site migration.

**Condition 63: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007**

Applicable Federal Requirement: 40CFR 60.758(a), NSPS Subpart WWW

Item 63.1:

The Compliance Certification activity will be performed for the Facility.

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator of an MSW landfill subject to the provisions of 40 CFR Part 60.752(b) shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity report which triggered 40 CFR Part 60.752(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 64: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.758(b), NSPS Subpart WWW

Item 64.1:

The Compliance Certification activity will be performed for the Facility.

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs (1) through (4) below as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.

1) Where an owner or operator seeks to demonstrate compliance with 40 CFR Part 60.752(b)(2)(ii):

i) The maximum expected gas generation flow rate as calculated in 40 CFR Part 60.755(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Administrator.

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



ii) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 40 CFR Part 60.759(a)(1).

2) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with 40 CFR Part 60.752(b)(2)(iii) through use of an enclosed combustion device other than a boiler or process heater with a design heat input capacity greater than 44 megawatts:

i) The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test.

ii) The percent reduction of NMOC determined as specified in 40 CFR Part 60.752(b)(2)(iii)(B) achieved by the control device.

3) Where an owner or operator subject to the provisions of this subpart seeks to demonstrate compliance with 40 CFR Part 60.752(b)(2)(iii)(B)(1) through use of a boiler or process heater of any size: a description of the location at which the collected gas vent stream is introduced into the boiler or process heater over the same time period of the performance testing.

4) Where an owner or operator seeks to demonstrate compliance with 40 CFR Part 60.752(b)(2)(iii)(A) through use of an open flare, the flare type (i.e., steam-assisted, air-assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in 40 CFR Part 60.18; continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 65: Compliance Certification

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.758(c), NSPS Subpart WWW

Item 65.1:

The Compliance Certification activity will be performed for the Facility.

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep for 5 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 40 CFR Part 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 Part 60.757(f):

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 degrees C below the average combustion temperature during the most recent performance test at which compliance with 40 CFR Part 60.752(b)(2)(iii) was determined.

ii) For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under paragraph 40 CFR Part 60.758(b)(3)(i) of this section.

2) 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 Part 60.756.

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



3) Each owner or operator subject to the provisions of this subpart who uses a boiler or process heater with a design heat input capacity of 44 megawatts or greater to comply with 40 CFR Part 60.752(b)(2)(iii) shall keep an up-to-date, readily accessible record of all periods of operation of the boiler or process heater. (Examples of such records could include records of steam use, fuel use, or monitoring data collected pursuant to other State, local, Tribal, or Federal regulatory requirements.)

4) Each owner or operator seeking to comply by use of an open flare shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring specified under 40 CFR Part 60.756(c), and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 66: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.758(d), NSPS Subpart WWW

Item 66.1:

The Compliance Certification activity will be performed for the Facility.

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), each owner or operator 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.

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 Part 60.755(b).



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

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 Part 60.759(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 40 CFR Part 60.759(a)(3)(ii).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 67: Compliance Certification
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.758(e), NSPS Subpart WWW

Item 67.1:

The Compliance Certification activity will be performed for the Facility.

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 40 CFR Part 60.752(b)(2)(i)(B), 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 Part 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 68: Specifications for active collection systems
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.759(c), NSPS Subpart WWW

Item 68.1:

Each owner or operator seeking to comply with 40 CFR Part 60.752(b)(2)(i)(A) shall convey the landfill gas to a control system in compliance with 40 CFR Part 60.752(b)(2)(iii) through the collection header pipe(s). The gas mover equipment shall be sized to handle the maximum gas generation flow rate expected over the intended use period of the gas moving equipment using the following procedures:



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

1) For existing collection systems, the flow data shall be used to project the maximum flow rate. If no flow data exists, the procedures in paragraph (2) below shall be used.

2) For new collection systems, the maximum flow rate shall be in accordance with 40 CFR Part 60.755(a)(1).

Condition 69: Asbestos-containing waste material standard for active waste disposal sites
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 61.154, NESHAP Subpart M

Item 69.1:

Owner or operator shall comply with the requirements of 40 CFR Part 61.154 when accepting asbestos-containing waste material from any source required to comply with 40 CFR Part 61.149, 61.150, or 61.155.

Condition 1-5: General Provisions
Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 40CFR 63, Subpart A

Item 1-5.1:

This emission source is subject to the applicable provisions of 40 CFR 63 Subpart A. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 1-6: Compliance Certification
Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 40CFR 63.1955(b), Subpart AAAAA

Item 1-6.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY100-00-0 HAP

Item 1-6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If you are required by 40CFR60.752(b)(2) of subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan to install a collection and control system, you must comply with the requirements in §§63.1960 through 63.1985 and with the general provisions of part 63 as specified in table 1 of Subpart AAAAA.



The facility shall develop and implement a written startup, shutdown, and malfunction (SSM) 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 air pollution control and monitoring equipment used to comply with this standard.

This plan must be developed by the facility by the compliance date of 40CFR63, subpart AAAA (the landfill NESHAP) and must comply with all of the provisions as listed in §63.6(e)(3)(ii)-(ix) which includes the following provisions:

- During periods of startup, shutdown, and malfunction, the facility must operate and maintain the affected source in accordance with the procedures specified in the SSM plan.
- When actions taken by the owner/operator during a startup, shutdown, or malfunction are consistent with the procedures specified in the affected source's SSM plan, the owner/operator must keep records for that event which demonstrate that the procedures specified in the plan were followed. In addition, the owner/operator must keep records of these events as specified in §63.10(b), including records of operation and each malfunction of the air pollution control and monitoring equipment. Furthermore, the owner/operator shall confirm that actions taken during the startup, shutdown, and malfunction were consistent with the SSM plan in the semiannual report as required in §63.10(d)(5).
- If an action taken by the facility is not consistent with the SSM plan, and the affected source exceeds the relevant emission standard, then the owner/operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the SSM plan, followed by a letter within 7 working days after the end of the event.
- EPA or NYSDEC may at any time request in writing that the facility submit a copy of the SSM plan (or a portion thereof) which is maintained at the affected source. Upon receipt of such a request, the facility must promptly



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

submit a copy of the requested plan to EPA or NYSDEC. EPA or NYSDEC must request that the facility submit a SSM plan whenever a member of the public submits a specific and reasonable request to examine or to receive a copy of that plan or portion of a plan. If the facility claims that any portion of such a SSM plan is confidential business information entitled to protection from disclosure under section 114(c) of the Act or 40CFR2.301, the material which is claimed as confidential must be clearly designated in the submission.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2004.

Subsequent reports are due every 6 calendar month(s).

**Condition 1-7: Accidental release provisions.
Effective between the dates of 01/07/2004 and 04/09/2007**

Applicable Federal Requirement: 40CFR 68

Item 1-7.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866
ATTN: Accidental Release Program contact

**** Emission Unit Level ****

Air Pollution Control Permit Conditions

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Condition 71: Emission Point Definition By Emission Unit
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 201-6

Item 71.1(From Mod 0):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-LFGAS

Emission Point: 00001

Height (ft.): 38

Diameter (in.): 96

Building: OUTSIDE

Emission Point: F0002

Height (ft.): 38

Diameter (in.): 96

Building: OUTSIDE

Emission Point: MH001

Height (ft.): 38

Diameter (in.): 6

Emission Point: MH002

Height (ft.): 38

Diameter (in.): 6

Emission Point: MH003

Height (ft.): 38

Diameter (in.): 6

Emission Point: MH004

Height (ft.): 38

Diameter (in.): 6

Emission Point: MH005

Height (ft.): 38

Diameter (in.): 6

Emission Point: MH006

Height (ft.): 38

Diameter (in.): 6

Emission Point: MH007

Height (ft.): 38

Diameter (in.): 6

Item 71.2(From Mod 0):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 2-LEACH

Emission Point: 00003

Height (ft.): 35

Diameter (in.): 840

Item 71.3(From Mod 0):



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 3-CDDEB

Emission Point: CD001

Height (ft.): 16

Diameter (in.): 6

Building: OUTSIDE

Emission Point: CD002

Height (ft.): 22

Diameter (in.): 6

Building: OUTSIDE

Item 71.4(From Mod 0):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 4-TIRES

Emission Point: CE001

Height (ft.): 12

Diameter (in.): 6

Building: TIRE BLDG

Emission Point: CE002

Height (ft.): 10

Diameter (in.): 6

Building: TIRE BLDG

Emission Point: D0001

Height (ft.): 13

Diameter (in.): 6

Building: OUTSIDE

Emission Point: D0002

Height (ft.): 13

Diameter (in.): 6

Building: OUTSIDE

Condition 72: Process Definition By Emission Unit

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 201-6

Item 72.1(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-LFGAS

Process: FUG

Source Classification Code: 5-02-006-02

Process Description:

FUGITIVE LFG EMISSIONS (BEYOND THE
COLLECTION EFFICIENCY OF THE GAS COLLECTION
SYSTEM).

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Emission Source/Control: LNDFL - Process

Item 72.2(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-LFGAS

Process: GAS

Source Classification Code: 5-02-006-01

Process Description:

LANDFILL GAS IS COLLECTED AND COMBUSTED IN A 1500 CFM FLARE. ADDITIONALLY, MODERN INTENDS TO INSTALL A 3,000 CFM FLARE WHEN LFG COLLECTION RATES APPROACH THE CAPACITY OF THE EXISTING FLARE (PROJECTED BY LFG MODELING TO OCCUR BY APPROXIMATELY 2005). THIS PROCESS ALSO INCLUDES COMBUSTION OF LFG IN THE MAINTENANCE GARAGE SPACE HEATERS ONCE EMISSION TESTING HAS DETERMINED COMPLIANCE WITH SUBPART WWW EMISSION STANDARDS FOR NON-METHANE ORGANIC COMPOUNDS (NMOCs),IE: 98% THERMAL DESTRUCTION EFFICIENCY OR 20 PPM EMISSION AS STATED IN 40CFR60.752.

Emission Source/Control: FL15K - Control
Control Type: FLARING

Emission Source/Control: FL30K - Control
Control Type: FLARING

Emission Source/Control: MGSH1 - Control
Control Type: FLARING

Emission Source/Control: LNDFL - Process

Item 72.3(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-LEACH

Process: EVP

Source Classification Code: 4-07-999-97

Process Description:

A 1.1 MILLION GALLON, ABOVE GROUND, VERTICAL FIXED ROOF STORAGE TANK IS USED TO STORE LEACHATE FROM THE LANDFILL. THE TANK IS VENTED TO PREVENT PRESSURIZATION. EMISSIONS CONSIST OF EVAPORATIVE LOSS OF LEACHATE.

Emission Source/Control: TANK1 - Process

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Design Capacity: 1.1 million gallons

Item 72.4(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-LEACH

Process: REC

Source Classification Code: 4-07-999-98

Process Description:

IN THIS PROCESS A WATER TRUCK FILLS UP WITH LEACHATE FROM THE ON-SITE STORAGE TANK AND THE OPERATOR SPRAYS THE LEACHATE THROUGH A NOZZLE MOUNTED ON THE TRUCK ONTO THE ACTIVE LANDFILL SURFACE.

Emission Source/Control: TRUCK - Process

Item 72.5(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-CDDEB

Process: PRC

Source Classification Code: 3-05-020-01

Process Description:

CONSTRUCTION AND DEMOLITION MATERIALS ARE FED INTO THE RUBBLE PROCESSING PLANT AND CRUSHED. A WATER SPRAY BAR IS USED TO CONTROL DUST EMISSIONS.

Emission Source/Control: SPRAY - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: CRUSH - Process

Item 72.6(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-CDDEB

Process: SCS

Source Classification Code: 3-05-020-02

Process Description:

AFTER PRIMARY CRUSHING THE DEBRIS IS RUN THROUGH A VIBRATORY SCREEN TO SEGREGATE PARTICLES OVER THREE INCHES WHICH ARE REPROCESSED. A WATER SPRAY BAR IS USED TO CONTROL DUST EMISSIONS.

Emission Source/Control: SPRAY - Control

Control Type: DUST SUPPRESSION BY WATER SPRAY

Emission Source/Control: VIBSC - Process

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Item 72.7(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 4-TIRES

Process: ICE

Source Classification Code: 2-02-001-02

Process Description:

AFTER RIMS, TREADS AND STEEL CHORDS ARE REMOVED FROM THE TIRES, THEY ARE SHREDDDED. EMISSIONS FROM THIS PROCESS ARE FROM THE DIESEL ENGINE USED TO POWER THE SHREDDER. SINCE NO EMISSIONS COME FROM THE SHREDDER, IT IS NOT REQUIRED TO BE LISTED AS A SOURCE.

Emission Source/Control: DESL1 - Process

Item 72.8(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 4-TIRES

Process: RUB

Source Classification Code: 3-08-001-99

Process Description:

AFTER SHREDDING THE TIRES ARE RUN THROUGH A MAGNETIZED SHAKER TABLE WHICH SORTS ANY UNDESIRABLE MATERIAL SUCH AS METAL PARTS. THE RUBBER THEN GOES THROUGH THE GRANULATOR WHICH FURTHER REDUCES PARTICLE SIZE. EMISSIONS FROM THIS PROCESS ARE PARTICULATE MATTER FROM THE SHAKER TABLE AND GRANULATOR WHICH ARE CONTROLLED BY CYCLONES AND BAG FILTERS. ALSO, THERE ARE COMBUSTION EMISSIONS FROM THE DIESEL GENERATORS. SHOULD FUGITIVE EMISSIONS BE OBSERVED OF EQUIPMENT DURING THE WORK SHIFT, APPROPRIATE ACTION BY MODERN PERSONNEL IS REQUIRED TO ADDRESS THE SITUATION.

Emission Source/Control: BGFLT - Control

Control Type: FABRIC FILTER

Emission Source/Control: CYCLN - Control

Control Type: SINGLE CYCLONE

Emission Source/Control: DESL1 - Process

Emission Source/Control: DESL2 - Process

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Emission Source/Control: GRAN1 - Process

Emission Source/Control: SHAKE - Process

Condition 1-8: Compliance Certification
Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 231-2

Item 1-8.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-8.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

- a.) According to the AP-42 emission factor for an enclosed combustor, maximum emissions of NO_x from the control device (which occurs in year 2032) would not exceed the New Source Review (NSR) applicability threshold of 100 tons per year. The manufacturer guarantees the low NO_x emission enclosed combustors (both the 1500 CFM and 3000 CFM flares) will have a maximum emission rate (limit) of 0.06 pounds of NO_x per million BTU fired. Total actual (flare outlet) NO_x emissions of 56.05 tons per year are predicted for this facility. Total facility emissions (captured as well as uncaptured) are predicted to be 76.49 tons per year.
- b.) Therefore, under this permit, in order to cap emissions of NO_x from the facility below 100 tons per year the enclosed combustor shall not exceed 0.06 pounds of NO_x per million BTU of landfill gas fired.
- c.) Landfill gas is collected for combustion in a 1,500 CFM flare. However, the gas is currently (since mid-2001) collected and sold off-site to a privately owned gas to energy facility. Initial compliance testing conducted on the 1500 CFM flare in 1999 was required only for VOC and indicated compliance with subpart WWW. The owner or operator shall conduct a stack test for establishing



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

compliance with the NO_x limit within 180 days of re-startup of this flare should landfill gas no longer be sold to an off-site consumer or if operation is required to dispose of the facility's generated landfill gas. The stack test shall be conducted according to EPA Method 7 or alternative method approved by the Department. NOTE: The proposed 3000 CFM flare would also require compliance testing for NO_x as well as VOC and CO upon startup of operation.

d.) The owner or operator shall prepare and submit a stack test protocol to the Department for review and approval at least 45 days prior to scheduled testing. The stack test protocol shall also address QA/QC, reportables, data usability and corrective action. Corrective action shall include provisions for retesting where necessary.

e.) A stack test report shall be submitted to the Department for review and approval within 60 days of completion of the field testing.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.06 pounds per million Btus
Reference Test Method: EPA METHOD 7
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-9: Compliance Certification
Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 231-2

Item 1-9.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 1-9.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

- a.) The facility shall limit (cap) the amount of municipal solid waste (MSW) disposed in this landfill to 815,000 tons per calendar year (Jan. 1 - Dec. 31) assuming year 2032 as the closure year. NOTE: Maximum landfill capacity is 2.660E+07 (Mg) with a maximum landfill gas generation rate of 6.224E+07 Cubic m/yr.
- b.) The facility shall track all such MSW received by recording the amount received daily in a log maintained on site during each day of operation.
- c.) The owner or operator must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to the facility during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.
- d.) On an annual basis the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by this emission cap. This certification shall include a brief summary of the MSW disposed in this landfill and a comparison with the 815,000 tons per calendar year established by this cap.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: MUNICIPAL SOLID WASTE
Upper Permit Limit: 815000 tons per year
Monitoring Frequency: DAILY
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2005.
Subsequent reports are due every 12 calendar month(s).

Condition 1-10: Compliance Certification

Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 6NYCRR 231-2

Item 1-10.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 1-10.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

a.) Use of AP-42 emission factors in the EPA LandGEM model along with a maximum waste placement rate 815,000 tons per year results in a model predicted maximum VOC generation rate which will exceed the 50 tpy NSR applicability threshold for this landfill operation. As a result the facility has elected to limit (cap) VOC emissions to below the 50 tpy NSR applicability threshold by installing a landfill gas collection system which will capture up to 85% of VOC generated by the landfill and destroy 98% or more of the VOC captured by the collection system.

AP-42 estimates that a well designed collection system will result in 75 to 85% capture of VOC. Part 231- 2 applicability threshold for MSW landfills applies to all emissions generated by the landfill - both uncaptured and captured emissions. Based on site specific sampling data for uncaptured emissions and flare test data (1999) for captured emissions , total actual emissions of 18.84 tons per year are predicted by the closure year of 2032.

b.) Facility-wide emissions of Volatile Organic Compound (VOC) are limited to 39 tons for each 12 month period under this permit by the installation of a well designed gas collection and control system according to the requirements of Subpart WWW contained in this permit. By capping emissions the facility avoids applicability of New Source Review (NSR) under 6 NYCRR Part 231-2.

c.) The facility shall track actual annual emissions and keep records according to the following. This calculation shall be completed by the 15 day of each month for each 12 month period.

1. The facility shall continuously measure landfill gas flow rate (total cfm) being collected by the collection system and directed to the control device.



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

This information shall be logged daily and logs shall be kept on site.

2. The annual quantity of VOC emissions from the landfill shall be computed by adding the uncaptured VOC emissions to the VOC emissions after control. For this calculation 25% of the emissions are assumed to be uncaptured and the VOC concentration in landfill gas shall be that measured by the most recent stack test. In the absence of test data the AP-42 factor of 235 ppmv as hexane shall be used.

d.) The owner or operator must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to the facility during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

e.) On an annual calendar year basis, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison with the 39 ton per year VOC emission limit established by this cap.

Parameter Monitored: VOC

Upper Permit Limit: 39 tons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2005.

Subsequent reports are due every 12 calendar month(s).

Condition 1-11: Compliance Certification

Effective between the dates of 01/07/2004 and 04/09/2007

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 1-11.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



CAS No: 000630-08-0 CARBON MONOXIDE

Item 1-11.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

- a.) According to the AP-42 emission factor for an enclosed combustor, maximum emissions of Carbon Monoxide (CO) from the control device (which occurs in year 2032) would not exceed the Prevention of Significant Deterioration (PSD) applicability threshold of 250 tons per year. The manufacturer guarantees the low emission enclosed combustors (both the 1500 CFM and 3000 CFM flares) will have a maximum emission rate (limit) of 0.2 pounds of CO per million BTU fired. Total actual (flare outlet) CO emissions of 186.83 tons per year are predicted for this facility. Total facility emissions (captured as well as uncaptured) are predicted to be 191.12 tons per year.
- b.) Therefore, under this permit, in order to cap emissions of CO from the facility below 250 tons per year the enclosed combustor shall not exceed 0.2 pounds of CO per million BTU of landfill gas fired.
- c.) Landfill gas is collected for combustion in a 1,500 CFM flare. However, the gas is currently (since mid-2001) collected and sold off-site to a privately owned gas to energy facility. Initial compliance testing conducted on the 1500 CFM flare in 1999 was only required for VOC for compliance with subpart WWW. The owner or operator shall conduct a stack test for establishing compliance with the CO limit within 180 days of re-startup of this flare should landfill gas no longer be sold to an off-site consumer or if operation is required to dispose of the facility's generated landfill gas. The stack test shall be conducted according to EPA Method 10 or alternative method approved by the Department. NOTE: The proposed 3000 CFM flare would also require compliance testing for CO as well as VOC and NOx upon startup of operation.
- d.) The owner or operator shall prepare and submit a stack test protocol to the Department for review and approval at least 45 days prior to scheduled testing. The stack test protocol shall also address QA/QC, reportables, data usability and corrective action. Corrective action



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

shall include provisions for retesting where necessary.

e.) A stack test report shall be submitted to the Department for review and approval within 60 days of completion of the field testing.

Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 0.2 pounds per million Btus
Reference Test Method: EPA METHOD 10
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 73: Flare operation requirements.
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.18(c), NSPS Subpart A

Item 73.1:

This Condition applies to Emission Unit: 1-LFGAS

Item 73.2:

All required flares shall meet, at a minimum, the following conditions:

- 1) be designed for and operated with no visible emissions as determined by the methods specified in 40 CFR 60.18(f) (Method 22), except for periods not to exceed 5 minutes during any 2 consecutive hours;
- 2) Flares shall be operated with a flame present at all times, as determined by the methods specified in 40 CFR 60.18(f) (Method 22);
- 3) An owner/operator has the choice of adhering to either the heat content specifications in 40 CFR 60.18(c)(3)(ii) and the maximum tip velocity specifications in 40 CFR 60.18(c)(4), or adhering to the requirements in 40 CFR 60.18(c)(3)(i).
- 4) Steam assisted and non assisted flares shall be designed for and operate with an exit velocity, as determined by the methods specified in 40 CFR 60.18(f)(4), less than 18.3 m/sec (60 ft/sec), except as provided in 40 CFR 60.18(c)(4)(ii) and (iii).
- 5) Air-assisted flares shall be designed and operated with an exit velocity less than the velocity, V_{MAX} , as determined by the method specified in 40 CFR 60.18(f)(6).
- 6) Flares used to comply with 40 CFR 60.18(c) shall be steam-assisted, air-assisted or non-assisted.

Condition 74: Flare monitoring requirements.
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.18(d), NSPS Subpart A



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

Item 74.1:

This Condition applies to Emission Unit: 1-LFGAS

Item 74.2:

Owners or operators of flares used to comply with the provisions of 40 CFR 60.18 shall monitor these control devices to ensure that they are operated and maintained in conformance with their designs. Applicable subparts will provide provisions stating how owners or operators of flares shall monitor these control devices.

Condition 75: General Control Device Requirements - Flares
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.18(e), NSPS Subpart A

Item 75.1:

This Condition applies to Emission Unit: 1-LFGAS

Item 75.2:

Flares used to comply with the provisions of 40 CFR Part 60 Subpart A shall be operated whenever landfill gas is vented to them.

Condition 76: Flare compliance testing.
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.18(f), NSPS Subpart A

Item 76.1:

This Condition applies to Emission Unit: 1-LFGAS

Item 76.2: Required flares used to comply with the provisions in this subpart shall comply with the following:

1) Reference Method 22 shall be used to determine the compliance of flares with the visible emission provisions of this subpart. The observation period is 2 hours and shall be used according to Method 22.

2) 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.

3) The net heating value of the gas being combusted in a flare shall be calculated using the equation found in 40CFR 60.18(f)(3).

4) The actual exit velocity of a flare shall be determined by dividing the volumetric flowrate (in units of standard temperature and pressure), as determined by Reference Methods 2, 2A, 2C, or 2D as appropriate; by the unobstructed (free) cross sectional area of the flare tip.



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

5) The maximum permitted velocity, V_{max} , for flares complying with 40CFR 60.18(c)(4)(iii) shall be determined by the equation given in 40CFR 60.18(f)(5).

6) The maximum permitted velocity, V_{max} , for air assisted flares shall be determined by the equation given in 40CFR 60.18(f)(6).

Condition 77: Compliance Certification

Effective between the dates of 04/09/2002 and 04/09/2007

Applicable Federal Requirement: 40CFR 60.752, NSPS Subpart WWW

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-LFGAS

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This facility shall be permitted to combust landfill gas in six space heaters (used for comfort heat) in the maintenance garage upon successful compliance testing for non-methane organic compounds (NMOCs) as per 40CFR60.754(d). Method 18 or 25 of Appendix A of that part shall be used to determine compliance with the 98 weight-percent efficiency destruction or the 20 ppmv outlet concentration level for NMOCs. Testing shall be conducted according to a sampling protocol submitted to and approved by this Department. In addition, the Department will review an alternate compliance method for monitoring continuing performance of the space heaters as per 40CFR60756(d). Operation of the space heaters on LFG will be dependent upon Department approval of both the compliance test report and the proposed alternate compliance monitoring method for the space heater operation.

Upper Permit Limit: 20 parts per million by volume (dry, corrected to 3% oxygen)

Reference Test Method: METHOD 18 OR 25

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

New York State Department of Environmental Conservation
Permit ID: 9-2924-00016/00053 Facility DEC ID: 9292400016



Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable and are not subject to annual compliance certification requirements for Title V permits.

Condition 1-12: Contaminant List

Effective between the dates of 01/07/2004 and 04/09/2007

Applicable State Requirement: ECL 19-0301

Item 1-12.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).



New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 0NY100-00-0
Name: HAP

CAS No: 000074-82-8
Name: METHANE

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0
Name: VOC

Condition 79: Unavoidable noncompliance and violations
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable State Requirement: 6NYCRR 201-1.4

Item 79.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

New York State Department of Environmental Conservation

Permit ID: 9-2924-00016/00053

Facility DEC ID: 9292400016



(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 83: Air pollution prohibited
Effective between the dates of 04/09/2002 and 04/09/2007

Applicable State Requirement: 6NYCRR 211.2

Item 83.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.