

New York State Department of Environmental Conservation

Permit Review Report

Permit ID: 3-4846-00079/00019 Renewal Number: 1



06/01/2006

Facility Identification Data

Name: SULLIVAN COUNTY LANDFILL
Address: 91 LANDFILL DRIVE
MONTICELLO, NY 12701-3835

Owner/Firm

Name: SULLIVAN COUNTY
Address: GOVERNMENT CTR 100 NORTH ST
MONTICELLO, NY 12701, USA
Owner Classification: Municipal

Permit Contacts

Division of Environmental Permits:
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91 LANDFILL DR
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Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

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Renewal 1 applies to the existing permitted operations of the Sullivan County Landfill through completion of Phase I cells 1 - 6. Title V permit renewal 1 does not authorize construction and operation of the Phase II expansion.

Attainment Status

SULLIVAN COUNTY LANDFILL is located in the town of THOMPSON in the county of SULLIVAN. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone* ATTAINMENT)	TRANSPORT REGION (NON-
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

** NOx has a separate ambient air quality standard in addition to being an ozone precursor

Facility Description

The subject of this Title V permit Renewal 1 pertains to Sullivan County Landfill operations through Phase I cells 1 through 6. The landfill is currently permitted to operate a Solid Waste Management Facility under 6 NYCRR Part 360 (Permit No. 3-4846-00079/00002-0 SWMF 53503). The Phase II expansion is a separate preceding which will require modification to this renewal permit 1.

The Sullivan County Landfill is a municipal solid waste (MSW) landfill facility located on 260 acres of County-owned land situated in the Village of Monticello, New York. The Standard Industrial Classification (SIC) for this facility is 4953 - Refuse Systems.

The Facility consists of a closed and capped area, an active area cells 1 through 5 and a cell 6 expansion area. The closed and capped areas were active between 1963 and 1994. Total design volume for this portion of landfill included approximately 2 million cubic yards. Cells 1 through 5 began receiving waste in 1994 and have a design capacity of approximately 3.166 million cubic yards. Cells 1 through 3 are at or near design capacity. Cells 4 and 5 have been constructed and are currently receiving waste.



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Construction of the planned cell 6 expansion is pending with a design capacity of 375,000 cubic yards. Cell 6 is expected to operate from 2006 through 2008.

The Facility has commenced construction, reconstruction or modification or began accepting waste on or after May 30, 1991 and is subject to Federal New Source Performance Standard 40 CFR Part 60 Subpart WWW-Standards of Performance for Municipal Solid Waste Landfills as well as 40 CFR Part 63 Subpart AAAA - National Emission Standards for Hazardous Air pollutants for Source Categories. The facilities design capacity is greater than 2.5 million cubic meters and is therefore subject to Title V Air Facility permitting.

The gas collection system installation and operation is subject to the monitoring, recordkeeping and specification requirements of 40 CFR Part 60 Subpart WWW. This includes monthly wellhead parameter monitoring and quarterly methane surface monitoring. Collected landfill gas from the landfill complex is conveyed to the existing 1,200 cfm and 2,000 cfm landfill flares.

The facility has been identified as a major source of sulfur dioxide and conservatively Carbon Monoxide emissions. Facility emissions are estimated as follows: Oxides of nitrogen less than 100 tons per year, sulfur dioxide between 150 and 200 tons per year, carbon monoxide between 150 and 200 tons per year, particulate less than 100 tons per year, volatile organic compounds (excluding methane) less than 50 tons per year and hazardous air pollutants less than 25 tons per year. New Source Review (NSR) and Prevention of Significant Deterioration (PSD) does not apply to this facility.

The facility air permit contains two specific emission units including 1-LFGAS and 2-LEACH.

1-LFGAS defines the closed and active landfill contributing to the generation of landfill gas and the apparatus necessary to collect and combust (flare) the landfill gas.

2-LEACH consists of four 395,000 gallon aboveground storage tanks for the storage of leachate and a leachate pretreatment facility.

Permit Structure and Description of Operations

The Title V permit for SULLIVAN COUNTY LANDFILL is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process.

A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device.

[NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e.

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parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants that is not included in the above categories.

SULLIVAN COUNTY LANDFILL is defined by the following emission unit(s):

Emission unit 2LEACH - Emission Unit 2-LEACH consists of four 395,000 gallon aboveground leachate storage tanks.

Emission unit 2LEACH is associated with the following emission points (EP):

TNK01, TNK02, TNK03, TNK04

It is further defined by the following process(es):

Process: EVPFOUR 395000-GAL, ABOVE GROUND, VERTICAL FIXED FOOF STORAGE TANKS ARE USED TO STORE LEACHATE FROM THE LANDFILL. THE TANKS ARE VENTED TO PREVENT PRESSURIZATION. IN ADDITION, A PRETREATMENT FACILITY TREATS LEACHATE PRIOR TO DISCHARGE TO THE POTW. EMISSIONS F ROM THE TANKS AND PRETREATMENT FACILITY CONSIST OF EVAPORATIVE LOSS OF LEACHATE.

Emission unit 1LFGAS - This emission unit defines the landfill complex and active gas collection system. The landfill areas are defined as follows:

- Old Village landfill (closed)
- Old County Landfill (closed)
- Phase I Landfill Cells 1 and 2 (capped)
- Phase I Landfill Cells 3 through 5 (active)
- Phase I Landfill Cell 6 (construction pending)

Design capacity for all landfills through completion of Phase I is approximately 3.0 million megagrams. Both the Old Village and County landfills are unlined and received waste between 1963 through 1993. The Old Village Landfill was capped in 2000. The Old County Landfill was capped in 1994. Phase I cells 1 through 5 have been constructed under authority of a Part 360 Solid Waste Management permit No. 3-4846-00079. Phase I design incorporates a double composite liner system.

Landfill gas is collected by vertical extraction wells and horizontal collection pipes. Collected gas is conveyed by lateral and header piping to two permanent centrally located open flares.

Projected landfill gas generation, utilizing USEPA LandGem modeling, is estimated as follows:

- 2005 - 1743 cfm
- 2006 - 1674 cfm
- 2007 - 1615 cfm

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2008 - 1562 cfm
2009 - 1372 cfm
2010 - 1205 cfm

Emission unit 1LFGAS is associated with the following emission points (EP):
F0001, F0002

It is further defined by the following process(es):

Process: FUGFUGITIVE LFG EMISSIONS (BEYOND THE COLLECTION EFFICIENCY OF THE GAS COLLECTION SYSTEM) FROM THE CLOSED AND ACTIVE LANDFILL AREAS.

Process: GASLANDFILL GAS IS COLLECTED AND COMBUSTED IN ONE 1,200-CFM AND ONE 2,000 CFM OPEN FLARE.

Title V/Major Source Status

SULLIVAN COUNTY LANDFILL is subject to Title V requirements. This determination is based on the following information:

Sullivan County Landfill has been determined to be a major source for sulfur dioxide and conservatively Carbon Monoxide emissions pursuant to 6 NYCRR 201.

Renewal application estimate of emissions through completion of Phase I Cells 1 -6 are:

CO - 81 tpy
NOx - 15 tpy
PM - 4 tpy
NMOC - 16 tpy
VOC - 6 tpy
SO2 - 173 tpy
Total HAP - 6.5 tpy

The Permit Renewal application calculates CO emissions based on flare vendor information. Based on published USEPA AP-42 CO factor of 750 lbs / 10⁶ dscf as methane, a conservative estimate of emissions is approximately 170 tons per year. Absent results of a performance test, the facility should be considered a major source for SO2 and CO emissions.

New Source Review (NSR) and Prevention of Significant Deterioration (PSD) do not apply to this facility.

Program Applicability

The following chart summarizes the applicability of SULLIVAN COUNTY LANDFILL with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
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PSD	NO
NSR (non-attainment)	NO
NESHAP (40 CFR Part 61)	YES
NESHAP (MACT - 40 CFR Part 63)	YES
NSPS	YES
TITLE IV	NO
TITLE V	YES
TITLE VI	NO
RACT	NO
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR Part 231) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's)

MACT Maximum Achievable Control Technology (40 CFR 63) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the

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regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's(hydrofluorocarbons)or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212.10, 226, 227-2, 228, 229, 230, 232, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code	Description
4953	REFUSE SYSTEMS

SCC Codes

SCC or Source Classification Code is a code developed and used by the USEPA to categorize

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processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code	Description
4-07-999-97	ORGANIC CHEMICAL STORAGE ORGANIC CHEMICAL STORAGE - MISCELLANEOUS Specify in Comments
5-02-006-02	SOLID WASTE DISPOSAL - COMMERCIAL/INSTITUTIONAL SOLID WASTE DISPOSAL: COMMERCIAL - LANDFILL DUMP MUNICIPAL: FUGITIVE EMISSIONS ** (USE 5-01-004-02)
5-02-006-01	SOLID WASTE DISPOSAL - COMMERCIAL/INSTITUTIONAL SOLID WASTE DISPOSAL: COMMERCIAL - LANDFILL DUMP WASTE GAS FLARES ** (USE 5-01-004-10)

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Series code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant Name	PTE	
		lbs/yr	Range
000630-08-0	CARBON MONOXIDE	>= 50	tpy but < 100 tpy
0NY100-00-0	HAP	>= 10	tpy but < 25 tpy
000074-82-8	METHANE	>= 50	tpy but < 100 tpy
0NY998-20-0	NMOC - LANDFILL USE ONLY	>= 25	tpy but < 40 tpy
0NY210-00-0	OXIDES OF NITROGEN	>= 10	tpy but < 25 tpy
0NY075-00-5	PM-10	>= 2.5	tpy but < 10 tpy
007446-09-5	SULFUR DIOXIDE	>= 100	tpy but < 250 tpy
0NY998-00-0	VOC	>= 2.5	tpy but < 10 tpy

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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Item A: 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 B: 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 C: 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.

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- Item D: 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 E: 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 F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission 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 G: 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 H: 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 I: 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 J: Permit Shield - 6 NYCRR Part 201-6.5(g)**

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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 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 K: 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

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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 a shorter time period in the case of an emergency.

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

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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.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Short Description	Condition
FACILITY	ECL 19-0301	Powers and Duties of the Department with respect to air pollution control	70
FACILITY	40CFR 60-A.11	General provisions - compliance with standards and maintenance requirements	29
FACILITY	40CFR 60-A.11 (d)	General provisions - compliance with standards and maintenance requirements	30
1-LFGAS/-/GAS/FLR1K	40CFR 60-A.18 (e)	Control Device Requirements (Flares)	66
1-LFGAS/-/GAS/FLR2K	40CFR 60-A.18 (e)	Control Device	68

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1-LFGAS/-/GAS/FLR1K	40CFR 60-A.18 (f)	Requirements (Flares) Control Device	67
1-LFGAS/-/GAS/FLR2K	40CFR 60-A.18 (f)	Requirements (Flares) Control Device	69
FACILITY	40CFR 60-A.4	Requirements (Flares) General provisions - Address	26
FACILITY	40CFR 60-A.7 (a)	Notification and Recordkeeping	27
FACILITY	40CFR 60-A.8 (a)	Performance Tests	28
FACILITY	40CFR 60-WWW.752 (b) (1)	Standards for air emissions from municipal solid waste landfills.	31
FACILITY	40CFR 60-WWW.752 (b) (2)	Standards for air emissions from MSW landfills	32
FACILITY	40CFR 60-WWW.753 (a)	Operational standards for collection and control systems	33
FACILITY	40CFR 60-WWW.753 (b)	Op Standards for collection/ control systems-Pressure	34
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FACILITY	40CFR 60-WWW.753 (d)	Operational Standards for Collection and Control Systems - Surface Methane	37
FACILITY	40CFR 60-WWW.753 (e)	Operational Standards for Collection and Control Systems - Collected Gases to Control System	38
FACILITY	40CFR 60-WWW.753 (f)	Operational Standards for Collection and Control Systems - Control Systems	39
FACILITY	40CFR 60-WWW.753 (g)	Operational Standards for Collection and Control Systems - Corrective Action	40
FACILITY	40CFR 60-WWW.754 (a) (2)	NMOC Calculation - Tier 1	41
FACILITY	40CFR 60-WWW.754 (b)	Test Methods and Procedures	42
FACILITY	40CFR 60-WWW.755 (a)	Compliance Provisions - collection system	43
FACILITY	40CFR 60-WWW.755 (b)	Compliance Provisions - wells	44
FACILITY	40CFR 60-WWW.755 (c)	Compliance Provisions - surface methane	45
FACILITY	40CFR 60-WWW.755 (d)	Compliance Provisions - instrumentation specifications	46
FACILITY	40CFR 60-WWW.755 (e)	Compliance Provisions - Start-up, shutdown, or malfunction	47
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Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-301.

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6NYCRR Part 200-.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6NYCRR Part 200-.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

6NYCRR Part 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or

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upset in the event that these are unavoidable.

6NYCRR Part 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6NYCRR Part 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6NYCRR Part 201-3.2(a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart.

All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6NYCRR Part 201-3.3(a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to 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.

6NYCRR Part 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6NYCRR 201-6.5(a)(4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a

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reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6NYCRR 201-6.5(a)(7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6NYCRR 201-6.5(a)(8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and monitoring, as necessary.

6NYCRR Part 201-6.5(c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6NYCRR Part 201-6.5(c)(2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6NYCRR Part 201-6.5(c)(3)(ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6NYCRR 201-6.5(d)(5)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6NYCRR Part 201-6.5(e)

Sets forth the general requirements for compliance certification content; specifies

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an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6NYCRR 201-6.5(f)(6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6NYCRR Part 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6NYCRR Part 202-2.1

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

6NYCRR Part 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6NYCRR Part 211-.2

This regulation prohibits any emissions of air contaminants to the outdoor atmosphere which may be detrimental to human, plant or animal life or to property, or which unreasonably interferes with the comfortable enjoyment of life or property regardless of the existence of any specific air quality standard or emission limit.

6 NYCRR Part 211.3

This condition requires that the opacity (i.e., the degree to which emissions other than water reduce the transmission of light) of the emissions from any air contamination source be less than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent.

6 NYCRR Part 215

Prohibits open fires at industrial and commercial sites.

40 CFR Part 68.

This Part lists the regulated substances and there applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82. Subpart F

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Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, SULLIVAN COUNTY LANDFILL has been determined to be subject to the following regulations:

40CFR 60-A.11

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40CFR 60-A.11 (d)

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40CFR 60-A.18 (e)

This regulation specifies the operating parameters and testing methods used to operate and monitor a flare that is being used as an air pollution control device (as required by a new source performance standard).

40CFR 60-A.18 (f)

This condition outlines the provisions which must be met to properly operate open flares for the combustion of landfill gas.

40CFR 60-A.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40CFR 60-A.7 (a)

This regulation requires any owner or operator subject to a New Source Performance Standard (NSPS) to furnish the Administrator with notification of the dates of: construction or reconstruction, initial startup, any physical or operational changes, commencement of performance testing for continuous monitors and anticipated date for opacity observations as required.

40CFR 60-A.8 (a)

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This regulation contains the requirements for the completion date and reporting of Performance Testing (stack testing), at the facility. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the owner or operator of the facility must conduct performance test(s) and furnish a written report of the test results.

40CFR 60-WWW.752 (b) (1)

This regulation requires the owner or operator of a municipal solid waste (MSW) landfill to determine the annual emissions of non-methane organic compounds from the landfill. If the non-methane organic carbon emission rate from an MSW landfill is less than 50 megagram/year (55 tons/year), the owner must submit an emission report and recalculate the emission rate annually.

40CFR 60-WWW.752 (b) (2)

If the non-methane organic carbon emission rate is greater than 50 megagrams/year (55 tons/year), the owner or operator must submit a design plan for a collection and control system.

40CFR 60-WWW.753 (a)

This condition sets forth the requirements of where and when a collection and control system is required at an MSW landfill. The collection system is required for areas, cells or groups of cells where solid waste has been in place for 5 years (if active) or 2 years (if inactive or closed). The collection system must be operated as follows: under negative pressure; with a temperature of less than 55 degrees Celsius; and with an oxygen content less than 5% or a nitrogen content less than 20%

40CFR 60-WWW.753 (b)

This condition requires that the collection system be operated under negative pressure.

40CFR 60-WWW.753 (c)

This condition requires that each interior wellhead in the collection system be operated such that the landfill gas temperature is less than 55 °C and with a nitrogen content less than 20% or an oxygen content less than 5%.

40CFR 60-WWW.753 (d)

This condition requires that the collection system be operated such that the concentration of methane on the surface of the landfill is less than 500 parts per million (by volume).

40CFR 60-WWW.753 (e)

This condition requires that all collected gases be sent to a control system when the collection system is operating.

40CFR 60-WWW.753 (f)

This condition requires that the control or treatment system be operated at all times when the collected gas is sent to the system.

40CFR 60-WWW.753 (g)

This condition requires that any problems at the landfill, found as a result of the monitoring of operation of the collection or control system be repaired or fixed within 15 days.

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40CFR 60-WWW.754 (a) (2)

This condition sets forth the requirements for conducting a Tier 1 test of non-methane organic carbon emissions from an MSW landfill. The emission rate is calculated using the default values cited in 40 CFR 60.754(a)(1) and compared to 50 megagrams/year (55 tons/year).

40CFR 60-WWW.754 (b)

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).

40CFR 60-WWW.755 (a)

This condition sets forth the compliance provisions for the collection system at an MSW landfill.

40CFR 60-WWW.755 (b)

This condition sets forth the compliance provisions for the collection system. The system must be installed within 60 days after the date on which solid waste has been in place for a period of 5 years for an active cell or section or 2 years for a closed cell or section.

40CFR 60-WWW.755 (c)

This condition sets forth the procedures to be used to determine compliance with the surface methane operational standard. The perimeter and surface area of the landfill are monitored for methane concentrations. If the concentration is 500 parts per million above background, corrective action must be taken.

40CFR 60-WWW.755 (d)

This condition sets forth the instrumentation specifications and procedures for determining the surface methane concentration.

40CFR 60-WWW.755 (e)

This condition requires that the provisions of this subpart apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed 5 days for collection systems and shall not exceed 1 hour for treatment or control devices

40CFR 60-WWW.756 (a)

This condition sets forth the monitoring requirements for an active gas collection system. Landfill gas temperature, pressure and oxygen or nitrogen content must be monitored.

40CFR 60-WWW.756 (c)

This condition sets forth the requirements for an open flare used to control landfill gas. A heat sensing device to determine the presence of a flame or pilot light and a gas flow meter are required.

40CFR 60-WWW.756 (f)

This condition requires that monitoring of surface methane concentrations be done according to the requirements of 40 CFR 60.755(d).

40CFR 60-WWW.757 (a)

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This condition requires that an initial landfill design capacity report be submitted to the EPA administrator.

40CFR 60-WWW.757 (b)

This condition requires that a non-methane organic carbon emission report be submitted to the EPA administrator.

40CFR 60-WWW.757 (c)

This condition requires that a design plan be submitted to the EPA administrator within one year of when the non-methane organic carbon emission rate exceeds 50 megagrams/year (55 tons/year).

40CFR 60-WWW.757 (d)

This condition requires that each owner or operator of a controlled landfill shall submit a closure report to the Administrator 30 days after the landfill stops accepting waste.

40CFR 60-WWW.757 (e)

This condition requires that each owner or operator of a controlled landfill submit an equipment removal report to the EPA Administrator 30 days prior to removal or cessation of operation of the control equipment

40CFR 60-WWW.757 (g)

This condition sets forth the required information to be included in the initial performance test report (i.e., stack test) for the control system at an MSW landfill.

40CFR 60-WWW.758 (a)

This condition requires that 5 years of up-to-date records be kept of the current amount of waste in place at the landfill.

40CFR 60-WWW.758 (b)

This condition specifies the records to be kept regarding the control equipment at the landfill.

40CFR 60-WWW.758 (c)

This condition requires each owner or operator of a controlled landfill to 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.

40CFR 60-WWW.759 (a)

This condition provides the specifications for the construction and installation of the active collection system.

40CFR 63-AAAA.1955 (b)

This condition requires the owner or operator of the landfill to prepare and implement a Startup, Shutdown, Malfunction (SSM) plan for the control device used at the landfill to control the landfill gas. The plan must describe the 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

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control and monitoring equipment used to comply with this standard.

40CFR 63-AAAA.1980 (a)

This regulation requires the owner or operator of the landfill to submit a report, on a semiannual basis of the following:

- any time the monitoring of wellhead parameters showed exceedances of temperature, pressure or nitrogen and oxygen content
- description and duration of any gas diversion from the control device
- description and duration when the control device was not operating for more than 1 hour
- all periods when the collection system was not operating for 5 days or more
- location of each exceedance of the 500 ppm standard for surface methane
- date of installation and location of any additional wells for the collection system.

6NYCRR 201-6.5

This condition limits annual waste landfilled to less than 200,000 tons per year for consistency of emission estimates. This total shall consist of actual weighed MSW and equivalent MSW accounting for Alternative Daily Cover (ADC). Information concerning the applied MSW equivalent must be submitted by the County for DEC acceptance.

6NYCRR 212.4 (a)

This rule requires compliance with the degree of control specified in Tables 2, 3 and 4 for new (after July 1, 1973) process emission sources.

6NYCRR 225-1.2 (a) (2)

This regulation prohibits any person from selling, offering for sale, purchasing or using any fuel which contains sulfur in a quantity exceeding the limitations set forth in Table 1, Table 2, or Table 3 of this section.

Compliance Certification

Summary of monitoring activities at SULLIVAN COUNTY LANDFILL:

Location Facility/EU/EP/Process/ES	Type of Monitoring	Cond No.
FACILITY	work practice involving specific operations	34
FACILITY	work practice involving specific operations	35
FACILITY	work practice involving specific operations	36
FACILITY	work practice involving specific operations	37
FACILITY	work practice involving specific operations	38
FACILITY	record keeping/maintenance procedures	39



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FACILITY	record keeping/maintenance procedures	40
FACILITY	record keeping/maintenance procedures	48
FACILITY	record keeping/maintenance procedures	49
FACILITY	ambient air monitoring	50
FACILITY	record keeping/maintenance procedures	57
FACILITY	record keeping/maintenance procedures	58
FACILITY	record keeping/maintenance procedures	59
FACILITY	record keeping/maintenance procedures	61
FACILITY	record keeping/maintenance procedures	62
FACILITY	record keeping/maintenance procedures	24
FACILITY	record keeping/maintenance procedures	5
FACILITY	record keeping/maintenance procedures	6
FACILITY	record keeping/maintenance procedures	7
1-LFGAS	record keeping/maintenance procedures	65
FACILITY	work practice involving specific operations	25

Basis for Monitoring

The Sullivan County Landfill is subject to 40 CFR 60.WWW and 40 CFR 63.AAAA requirements.

Landfilling operations have been limited to 200,000 tons per year of MSW. This total shall consist of actual weighed MSW and equivalent MSW accounting for Alternative Daily Cover (ADC). This limit is imposed as a function of permit application emission estimates. Information concerning the applied MSW equivalent must be submitted by the County annually to DEC for acceptance.

In 2004, Sullivan County submitted compliance demonstration of Flare 2 which included exit velocity, net heating value and opacity evaluation.

The 2005 semi-annual compliance report identified numerous wellheads which exceed 5% oxygen content. All but 13 of these wells have been decommissioned (January 2005) as part of ongoing improvements to the overall gas collection management efforts. This information was confirmed with the DEC on-site environmental monitor. The County, as part of the July 2005 semi-annual compliance report, has concluded that the following gas collection wells can be operated at a oxygen level not to exceed 21% without an increased threat of fire pursuant to permit condition 46.

- GW-01 M-1W
- GW-10 PT-01
- GW-20 PT-02
- HO-13 PT-03
- HO-15
- HO-19
- HO-32
- HO-40
- HO-45

Additional narrative concerning this matter is elaborated within the permit description Responsiveness Summary and Administrative Record.

Annual surface methane monitoring is not required for the the Old Village Landfill since landfill gas generation is less than 10 cfm (See Permit Renewal Application Attachment 2). This contribution represents less than 0.5% of the total predicted landfill gas generation for the entire landfill complex is

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expected to continue decreasing over time. This determination is consistent with relief to control landfill gas pursuant to 40CFR 60.759(a)(3). The County has indicated efforts to collect and control landfill gas from this area will continue.