

502(b)(10) Permit for Part 70 Source

Permit Attachment No.: 4953-013-0068-V-02-1 **Effective Date:** June 18, 2008

Facility Name: **Oak Grove Sanitary/Speedway Landfill**
967 Carl-Bethlehem Road
Winder, Georgia 30680, Barrow County

Mailing Address: P.O. Box 44066
Atlanta, Georgia 30336

Parent/Holding Company: Republic Services of Georgia Limited Partnership

Facility AIRS Number: 04-13-013-00068

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to or in effect under the Act, the Permittee described above is issued a SIP Construction and Operating Permit for:

The relocation of existing Flares No. 1 and No. 2; The upgrading of Flare No. 2 with a new blower; and
The authorization to use a third party landfill gas treatment facility to serve as a control device.

This modification qualifies as a Section 502(b)(10) change to the Part 70 source in accordance with Georgia Air Quality Control Rule 391-3-1-.03(10)(b)(5).

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted or in effect under that Act, or any other condition of this Permit and Permit No. 4953-013-0068-V-02-0. Unless modified or revoked, this Permit expires upon issuance of the next Part 70 Permit for this source.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. TV-18027 dated March 3, 2008; any other applications upon which this Permit or Permit No. 4953-013-0068-V-02-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 2 page(s).

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION**1.3 Process Description of Modification**

The landfill gas (LFG) from Oak Grove Landfill is currently controlled by Flares No. 1 and No. 2. The LFG from Speedway Landfill is controlled by Flare No. 3. Flares No. 1 and No. 2 will be relocated near a proposed third party LFG treatment facility (Winder Renewable Methane, LLC), and Flare No. 2 will be upgraded by the replacement of its blower. A Title V construction/draft operating permit (Permit No. 4932-013-0076-V-01-0) was issued to Winder Renewable Methane on February 26, 2008. The Title V operating permit was finalized on June 10, 2008.

Winder Renewable Methane will be located at the landfill and, once constructed, will use the LFG from Oak Grove Landfill as its raw material to produce pipeline quality gas. The LFG, produced by the decomposition of waste material deposited in the landfill, is collected by an active gas collection and control system (GCCS). Winder Renewable Methane will compress the landfill gas as well as remove water and trace impurities from the LFG. The LFG will then be separated into two streams. The first stream consists primarily of methane and will be injected into a natural gas pipeline. The second stream is a waste stream consisting primarily of carbon dioxide with lesser quantities of methane and NMOC. The waste stream will be burned in a thermal oxidizer owned and operated by Winder Renewable Methane.

Winder Renewable Methane will serve as the primary control device for NMOC from the landfill. Flares No. 1 and No. 2 will be used when the LFG generation exceeds the capacity of the treatment facility and as backup control devices. No changes will be made to Flare No. 3 or the Speedway Landfill gas collection system.

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

3.1.1 Additional Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
LF01	Oak Grove Landfill (Active site)	40 CFR Part 60, Subpart A	2.2.1, 2.2.2, 2.2.3, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 4.2.1, 4.2.2, 5.2.1-5.2.9, 6.1.7, 6.2.1 through 6.2.20	FL01	Oak Grove Flare # 1 and associated GCCS
		40 CFR Part 60, Subpart WWW		FL02	Oak Grove Flare # 2 and associated GCCS
		40 CFR Part 61, Subpart A		01	Third-party LFG treatment system
		40 CFR Part 61, Subpart M			
		40 CFR Part 63, Subpart A			
		40 CFR Part 63, Subpart AAAA			

* Generally applicable requirements contained in this permit may also apply to emission units listed above.