#### **Bay Area Air Quality Management District**

939 Ellis Street San Francisco, CA 94109 (415) 771-6000

#### **Final**

#### **MAJOR FACILITY REVIEW PERMIT**

## Issued To: TriCities Waste Management Facility #A2246

**Facility Address:** 

7010 Auto Mall Parkway Fremont, CA 94538

**Mailing Address:** 

7010 Auto Mall Parkway Fremont, CA 94538

#### **Responsible Official**

James Devlin North Bay Market Area Manager (510) 430-8509

#### **Facility Contact**

Brian Bowen Environmental Protection Manager (916) 448-4675

**Type of Facility:** Municipal Solid Waste Landfill BAAQMD Permit Division Contact: Ted Hull, Senior Air Quality Engineer

**Product:** Landfill Operations

#### ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jack P. Broadbent

Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

Date

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#### I. STANDARD CONDITIONS

#### A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 5/2/01);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 12/21/04);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 12/21/04);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 12/21/04);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 1/26/99); and

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 4/16/03).

#### B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

- 1. This Major Facility Review Permit was issued on November 28, 2001 and expires on October 31, 2006. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than April 30, 2006 and no earlier than October 31, 2005. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** October 31, 2006. If the permit renewal has not been issued by October 31, 2006, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
- 2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
- 3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

#### I. Standard Conditions

- 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
- 5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The 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. The certifications shall be signed by a responsible official for the facility. (MOP Volume II, Part 3, §4.11)

#### C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

#### **D.** Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

#### I. Standard Conditions

#### E. Records

- 1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
- 2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

#### F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be November 28, 2001 to April 30, 2002. The report shall be submitted by May 31, 2002. Subsequent reports shall be for the following periods: May 1st through October 31st and November 1st through April 30th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109 Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

#### **G.** Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be November 1st to October 31st. The certification shall be submitted by November 30th of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification should be sent to the Environmental Protection Agency at the following address:

Director of the Air Division USEPA, Region IX

#### I. Standard Conditions

75 Hawthorne Street San Francisco, CA 94105 Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

#### **H.** Emergency Provisions

- 1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
- 2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
- 3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

#### I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

#### J. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

#### II. EQUIPMENT

#### **Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities for each source, pursuant to Standard Condition I.J and Regulation 2-1-301.

S-#	Description	Make or Type	Model	Capacity
S-1	TriCities Landfill: (Active	Municipal Solid Waste	N/A	Max. Design Capacity =
	Solid Waste Disposal Site with			19.271 million cubic
	Active Gas Collection System,			yards (14.735 million
	25 Vertical Gas Collection			cubic meters)
	Wells)			Max. Waste In Place =
				13.5 million tons
				Max. Waste Acceptance
				Rate = 2,628 tons/day
S-5	Wood Waste Stockpiles	N/A	N/A	200 tons/day
S-9	Portable Diesel Engine	John Deere		70 hp
S-10	Parts Cleaner	Safety-Kleen		20 gallon capacity
S-14	Diesel IC Engine – Air	John Deere	4239D	80 BHP
	Compressor (GE-1)			
S-15	Diesel IC Engine – Air	John Deere	4239D	80 BHP
	Compressor (GE-2)			
S-16	Diesel IC Engine – Vacuum	Cummins	6BTA5.9	177 BHP
	Truck			
S-17	Diesel IC Engine – Street	John Deere	4239D	80 BHP
	Sweeper			
S-18*	IC Engine Generator Set #1,	Caterpillar	G3516LE	1,148 BHP,
	Landfill Gas Fired			10.5 MMBTU/hr
S-19*	IC Engine Generator Set #1,	Caterpillar	G3516LE	1,148 BHP,
	Landfill Gas Fired			10.5 MMBTU/hr
S-20*	IC Engine Generator Set #1,	Caterpillar	G3516LE	1,148 BHP,
	Landfill Gas Fired			10.5 MMBTU/hr

<sup>\*</sup> Proposed Equipment. (See Authority to Construct #009222)

## II. Equipment

**Table II B – Abatement Devices** 

		Source(s)	Applicable	Operating	Limit or
<b>A-</b> #	Description	Controlled	Requirement	Parameters	Efficiency
A-3	Landfill Gas Flare,	S-1	BAAQMD	Minimum Flue Gas	Either NMOC
	burning propane (during		Regulation	Temperature:	destruction
	start-up only) and landfill		8-34-301.3	1450 degrees F	efficiency
	gas, 75 MM BTU/hour		and	(3-hour average),	≥98% (wt), or
			BAAQMD	see also Table VII-A	<30 ppm
			Condition		NMOC
			#8366, Part 6,		@ 3% O <sub>2</sub> at
			see also Table		flare outlet,
			IV-A		see also Table
					VII-A
A-5	Water Truck	S-1	BAAQMD	None	Ringelmann
			Regulation		No. 1
			6-301		

Revision date: August 16, 2006

#### III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors.
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9's website. The address is: <a href="http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions">http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions</a>

#### NOTE:

There are differences between the current BAAQMD rules and the version of the rules in the SIP. All sources must comply with <u>both</u> versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III
Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	$\mathbf{Y}^1$
BAAQMD Regulation 2, Rule 1	General Requirements (12/21/04)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	$\mathbf{Y}^1$
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y <sup>1</sup>
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y

## **III.** Generally Applicable Requirements

Table III
Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	N
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	Y
BAAQMD 8-40-116	Exemption, Small Volume	Y
BAAQMD 8-40-117	Exemption, Accidental Spills	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	$\mathbf{Y}^{1}$
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	$\mathbf{Y}^1$
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	$Y^1$
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	$\mathbf{Y}^{1}$
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 3	Hazardous Pollutants - Beryllium (3/17/82)	N
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants - Asbestos Containing Serpentine (7/17/91)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/90)	N

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#### III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable
Requirement	Description of Requirement	(Y/N)
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y <sup>1</sup>
California Code of Regulations	Asbestos Airborne Toxic Control Measure for	N
Title 17, Section 93105	Construction, Grading, Quarrying, and Surface Mining Operations (7/26/01)	
California Code of Regulations	Asbestos Airborne Toxic Control Measure for Asbestos-	N
Title 17, Section 93106	Containing Serpentine (7/20/00)	
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (5/28/03)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y

<sup>1.</sup> This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

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#### IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors.
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date.

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is:

http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat =Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions. All other text may be found in the regulations themselves.

Table IV - A
Source-Specific Applicable Requirements
S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND
A-3: LANDFILL GAS FLARE

Applicable  Requirement	Regulation Title or	Federally Enforceable	Future Effective
Requirement BAAQMD	Description of Requirement	(Y/N)	Date
Regulation 1	General Provisions and Definitions (5/2/01)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP	General Provisions and Definitions (6/28/99)		
Regulation 1			
1-523	Parametric Monitoring and Recordkeeping Procedures	$\mathbf{Y}^{1}$	
1-523.3	Reports of Violations	$Y^1$	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to flare only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Organic Compounds – Miscellaneous Operations (6/15/94)		
Regulation 8, Rule 2			
8-2-301	Miscellaneous Operations (applies to low VOC soil handling and disposal activities only)	Y	
BAAQMD			
Regulation 8,	Organic Compounds – Solid Waste Disposal Sites (10/6/99)		
Rule 34			
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	
8-34-116.2	Limits on Number of Wells Shutdown	Y	
8-34-116.3	Shutdown Duration Limit	Y	
8-34-116.4	Capping Well Extensions	Y	
8-34-116.5	Well Disconnection Records	Y	
8-34-117	Limited Exemption, Gas Collection System Components	Y	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	Y	
8-34-117.2	New Components are Described in Collection and Control System Design Plan	Y	
8-34-117.3	Meets Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

A	Decembed on Title on	Federally	Future
Applicable Requirement	Regulation Title or Description of Requirement	Enforceable (Y/N)	Effective Date
8-34-118.1	Construction Plan	Y	Date
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4	Emission Minimization Requirement	Y	
8-34-118.5	Excavated Refuse Requirements	Y	
8-34-118.6	Covering Requirements for Exposed Refuse	Y	
8-34-118.7	Installation Time Limit	Y	
8-34-118.8		Y	
	Capping Required for New Components	Y	
8-34-118.9	Construction Activity Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	+	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Destruction Efficiency Requirements for Flares	Y	
8-34-303	Landfill Surface Requirements	Y	
8-34-304	Gas Collection System Installation Requirements	Y	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	Y	
8-34-304.2	Based on Waste Age For Active Areas	Y	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	Y	
8-34-304.4	Based on NMOC Emission Rate	Y	
8-34-305	Wellhead Requirements	Y	
8-34-305.1	Operate Under Vacuum	Y	
8-34-305.2	Temperature < 55 °C	Y	
8-34-305.3	Nitrogen < 20% or	Y	
8-34-305.4	Oxygen < 5%	Y	
8-34-405	Design Capacity Reports (If Design Capacity is Amended)	Y	
8-34-408	Collection and Control System Design Plans	Y	
8-34-408.2	Sites With Existing Collection and Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-414	Repair Schedule for Wellhead Excesses	Y	
8-34-414.1	Records of Excesses	Y	

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-414.2	Corrective Action	Y	
8-34-414.3	Collection System Expansion	Y	
8-34-414.4	Operational Due Date for Expansion	Y	
8-34-415	Repair Schedule for Surface Leak Excesses	Y	
8-34-415.1	Records of Excesses	Y	
8-34-415.2	Corrective Action	Y	
8-34-415.3	Re-monitor Excess Location Within 10 Days	Y	
8-34-415.4	Re-monitor Excess Location Within 1 Month	Y	
8-34-415.5	If No More Excesses, No Further Re-Monitoring	Y	
8-34-415.6	Additional Corrective Action	Y	
8-34-415.7	Re-monitor Second Excess Within 10 days	Y	
8-34-415.8	Re-monitor Second Excess Within 1 Month	Y	
8-34-415.9	If No More Excesses, No Further Re-monitoring	Y	
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	Y	
8-34-415.11	Operational Due Date for Expansion	Y	
8-34-416	Cover Repairs	Y	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorder	Y	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
BAAQMD	Organic Compounds - Aeration of Contaminated Soil and Removal of		
Regulation 8,	Underground Storage Tanks (12/15/99)		
Rule 40			
8-40-110	Exemption, Storage Pile	Y	
8-40-112	Exemption, Sampling	Y	
8-40-113	Exemption, Non-Volatile Hydrocarbons	Y	
8-40-118	Exemption, Aeration Projects of Limited Impact	Y	
8-40-301	Uncontrolled Contaminated Soil Aeration	Y	
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations (applies to flare only)	Y	
9-1-302	General Emission Limitations (applies to flare only)	Y	
BAAQMD	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
Regulation 9,			
Rule 2			
9-2-301	Limitations on Hydrogen Sulfide	N	
40 CFR Part	Standards of Performance for New Stationary Sources – General		
60, Subpart	Provisions (5/4/98)		
A			
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other	Y	
	Correspondence to the Administrator		
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and in operation before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Multiple monitors are required for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part	Standards of Performance for New Stationary Sources – Standards of		
60, Subpart	Performance for Municipal Solid Waste Landfills (2/24/99)		
www			
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to or greater than 2.5 million Mg <b>and</b> 2.5 million m <sup>3</sup> (Large Designated Facilities)	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a Collection and Control System Design Plan	Y	
60.752 (b)(2)(i)(A)	The collection and control system in the Design Plan shall comply with 60.752(b)(2)(ii)	Y	
60.752 (b)(2)(i)(B)	Design Plan shall include all proposed alternatives to 60.753 through 60.758	Y	
60.752	Design Plan shall conform to 60.759 (active collection	Y	
(b)(2)(i)(C)	system) or demonstrate sufficiency of proposed alternatives	-	
60.752 (b)(2)(ii)	Install a collection and control system	Y	
60.752 (b)(2)(iii)	Route collected gases to a control system.	Y	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O2, dry basis, as demonstrated by initial performance test within 180 days of start-up.	Y	
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	
60.752(c)	Title V Operating Permit Requirements	Y	
60.752(c)(1)	Subject is June 10, 1996 for Landfills new or modified between May 30, 1991 and March 12, 1996	Y	
60.752(c)(2)	Subject date is 90 days after date of commenced construction or modification for newer landfills	Y	
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(a)	Operate a Collection System in each area or cell in which:	Y	
60.753(a)(1)	Active Cell – solid waste in place for 5 years or more	Y	
60.753(a)(2)	Closed/Final Grade – solid waste in place for 2 years or more	Y	
60.753(b)	Operate each wellhead under negative pressure unless:	Y	
60.753(b)(1)	Fire or increased well temperature or to prevent fire	Y	
60.753(b)(2)	Use of geomembrane or synthetic cover (subject to alternative pressure limits)	Y	
60.753(b)(3)	Decommissioned well after approval received for shut-down	Y	
60.753(c)	Operate each wellhead at $< 55$ °C, and either $< 20\%$ N <sub>2</sub> or $<$ than 5% O <sub>2</sub> (or other approved alternative levels)	Y	
60.753(c)(1)	N <sub>2</sub> determined by Method 3C	Y	
60.753(c)(2)	O <sub>2</sub> determined by 3A and as described in (2)(i-v)	Y	
60.753(d)	Surface Leak Limit is less than 500 ppm methane above background at landfill surface. This section also describes some surface monitoring procedures.	Y	
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii). If collection or control system inoperable, shut down gas mover and close all vents within 1 hour	Y	
60.753(f)	Operate the control system at all times when collected gas is routed to the control system	Y	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.753(g)	If monitoring demonstrates that 60.753(b), (c), or (d) are not being met, corrective action must be taken	Y	
60.754	Test Methods and Procedures	Y	
60.754(a)	NMOC Calculation Procedures for NMOC Emission Rate Reports and Comparison to 50 Mg/Year Standard	Y	
60.654(a)(1)	Calculate NMOC Emission Rate using either or both of the equations in 60.754(a)(1)(i-ii) with the listed default values	Y	
60.754 (a)(1)(i)	Equation for known year-to-year waste acceptance rate	Y	
60.754 (a)(1)(ii)	Equation for unknown year-to-year waste acceptance rate	Y	
60.754(a)(2)	Tier 1 – compare calculated NMOC emission rate to 50 Mg/year	Y	
60.754 (a)(2)(ii)	If NMOC Emission Rate $\geq 50$ Mg/year, comply with $60.752(b)(2)$ or determine a site specific NMOC concentration and follow $60.754(a)(3)$	Y	
60.754(c)	For PSD, NMOC emissions shall be calculated using AP-42	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(a)	For Gas Collection Systems	Y	
60.755(a)(1)	Calculation Procedures for Maximum Expected Gas Generation Flow Rate	Y	
60.755 (a)(1)(i)	Equation for unknown year-to-year waste acceptance rate	Y	
60.755 (a)(1)(ii)	Equation for known year-to-year waste acceptance rate	Y	
60.755	For closed or inactive and full sites with gas collection	Y	
(a)(1)(iii)	systems, actual flow rates may be used		
60.755(a)(2)	Vertical wells and horizontal collectors shall be of sufficient density to meet all performance specifications	Y	
60.755(a)(3)	Measure wellhead pressure monthly. If pressure is positive, take corrective action (final corrective action = expand system within 120 days of initial positive pressure reading)	Y	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.755(a)(4)	Expansion not required during first 180 days after startup.	Y	
60.755(a)(5)	Monitor wellheads monthly for temperature and either nitrogen or	Y	
	oxygen. If readings exceed limits, take corrective action up to		
	expanding system within 120 days of first excess.		
60.755(b)	Wells shall be placed in cells as described in design plan and no later	Y	
	than 60 days after:		
60.755(b)(1)	Five years after initial waste placement in cell, for active cells	Y	
60.755(b)(2)	Two years after initial waste placement in cell, for closed/final	Y	
	grade cells.		
60.755(c)	Procedures for complying with surface methane standard	Y	
60.755(c)(1)	Quarterly monitoring of surface and perimeter	Y	
60.755(c)(2)	Procedure for determining background concentration	Y	
60.755(c)(3)	Method 21 except probe inlet placed 5-10 cm above ground	Y	
60.755(c)(4)	Excess is any reading of 500 ppmv or more. Take corrective	Y	
	action indicated below (i-v).		
60.755	Mark and record location of excess	Y	
(c)(4)(i)			
60.755	Repair cover or adjust vacuum. Re-monitor within 10	Y	
(c)(4)(ii)	calendar days.		
60.755	If still exceeding 500 ppmv, take additional corrective action.	Y	
(c)(4)(iii)	Re-monitor within 10 calendar days of 2 <sup>nd</sup> excess.		
60.755	Re-monitor within 1 month of initial excess.	Y	
(c)(4)(iv)			
60.755	For any location with 3 monitored excesses in a quarter,	Y	
(c)(4)(v)	additional collectors (or other approved collection system		
	repairs) shall be operational within 120 days of 1st excess.		
60.755(c)(5)	Monitor cover integrity monthly and repair as needed.	Y	
60.755(d)	Instrumentation and procedures for complying with 60.755(c).	Y	
60.755(d)(1)	Portable analyzer meeting Method 21	Y	
60.755(d)(2)	Calibrated with methane diluted to 500 ppmv in air	Y	
60.755(d)(3)	Use Method 21, Section 4.4 instrument evaluation procedures	Y	
60.755(d)(4)	Calibrate per Method 21, Section 4.2 immediately before	Y	
	monitoring.		

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems.	Y	
60.756	Monitoring of Operations	Y	
60.756(a)	For active collection systems, install wellhead sampling port	Y	
60.756(a)(1)	Measure gauge pressure in wellhead on a monthly basis	Y	
60.756(a)(2)	Measure nitrogen or oxygen concentration in wellhead gas on a monthly basis.	Y	
60.756(a)(3)	Measure temperature of wellhead gas on a monthly basis.	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	
60.756(b)(1)	Temperature monitor and continuous recorder (not required for boilers and process heaters with capacity > 44 MW)	Y	
60.756(b)(2)	Device that records flow to or bypass of the control device (i or ii below)	Y	
60.756 (b)(2)(i)	Install, calibrate, and maintain a device that records flow to the control device at least every 15 minutes	Y	
60.756 (b)(2)(ii)	Secure a bypass valve in closed position with a lock-and-key configuration and inspect seal and lock monthly	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.756(f)	Monitor surface on a quarterly basis. Closed landfills with no monitored exceedences in 3 consecutive quarters may reduce monitoring frequency to an annual basis	Y	
60.757	Reporting Requirements	Y	
60.757(a)	Submit an Initial Design Capacity Report	Y	
60.757(a)(3)	Amended Design Capacity Report required within 90 days of receiving a permitted increase in design capacity or within 90 days of an annual density calculation that results in a design capacity over the thresholds	Y	
60.757(b)	Submit Initial and Annual NMOC Emission Rate Report	Y	
60.757(b)(3)	Sites with Collection and Control Systems operating in compliance with this subpart are exempt from (b)(1) and (b)(2)	Y	

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
60.757(c)	Submit a Collection and Control System Design Plan within 1 year of	Y	
	first NMOC emission rate report showing NMOC > 50 MG/year,		
	except as follows		
60.757(f)	Submit Annual Reports containing information required by (f)(1)	Y	
	through (f)(6)		
60.757(f)(1)	Value and length of time for exceedance of parameters monitored	Y	
	per 60.756(a), (b) or (d)		
60.757(f)(2)	Description and duration of all periods when gas is diverted from	Y	
	the control device by a by-pass line		
60.757(f)(3)	Description and duration of all periods when control device was	Y	
	not operating for more than 1 hour		
60.757(f)(4)	All periods when collection system was not operating for more	Y	
	than 5 days.		
60.757(f)(5)	Location of each surface emission excess and all re-monitoring	Y	
	dates and concentrations.		
60.757(f)(6)	Location and installation dates for any wells or collectors added as	Y	
	a result of corrective action for a monitored excess.		
60.757(g)	Initial Performance Test Report Requirements (g)(1-6)	Y	
60.757(g)(1)	Diagram of collection system showing positions of all existing	Y	
	collectors, proposed positions for future collectors, and areas to be		
	excluded from control.		
60.757(g)(2)	Basis for collector positioning to meet sufficient density req.	Y	
60.757(g)(3)	Documentation supporting percentage of asbestos or non-	Y	
	degradeable material claims for areas without a collection system.		
60.757(g)(4)	For areas excluded from collection due to non-productivity,	Y	
	calculations and gas generation rates for each non-productive area		
	and the sum for all nonproductive areas.		
60.757(g)(5)	Provisions for increasing gas mover equipment if current system	Y	
	inadequate to handle maximum projected gas flow rate.		
60.757(g)(6)	Provisions for control of off-site migration	Y	
60.758	Recordkeeping Requirements	Y	
60.758(a)	Design Capacity and Waste Acceptance Records (retain 5 years)	Y	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or  Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.758(b)	Collection and Control Equipment Records (retain for life of control equipment except 5 years for monitoring data)	Y	
60.758(b)(1)	Collection System Records	Y	
60.758 (b)(1)(i)	Maximum expected gas generation flow rate	Y	
60.758 (b)(1)(ii)	Density of wells and collectors	Y	
60.758(b)(2)	Control System Records - enclosed combustors other than boilers or process heaters with heat input > 44 MW	Y	
60.758 (b)(2)(i)	Combustion temperature measured every 15 minutes and averaged over the same time period as the performance test	Y	
60.758 (b)(2)(ii)	Percent NMOC reduction achieved by the control device	Y	
60.758(c)	Records of parameters monitored pursuant to 60.756 and periods of operation when boundaries are exceeded (retain for 5 years)	Y	
60.758(c)(1)	Exceedances subject to record keeping are	Y	
60.758 (c)(1)(i)	All 3-hour periods when average combustion temperature was more than 28 C below the average combustion temperature during the most recent complying performance test	Y	
60.758(c)(2)	Records of continuous flow to control device or monthly inspection records if seal and lock for bypass valves	Y	
60.758(d)	Plot map showing location of all existing and planned collectors with a unique label for each collector (retain for life of collection system)	Y	
60.758(d)(1)	Installation date and location of all newly installed collectors	Y	
60.758(d)(2)	Records of nature, deposition date, amount, and location of asbestos or non-degradable waste excluded from control	Y	
60.758(e)	Records of any exceedance of 60.753, location of exceedance and remonitoring dates and data (for wellheads and surface). Retain for 5 years.	Y	
60.759	Specifications for Active Collection Systems	Y	
60.759(a)	Active wells and collectors shall be at sufficient density	Y	
60.759(a)(1)	Collection System in refuse shall be certified by PE to achieve comprehensive control of surface gas emissions	Y	

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.759(a)(2)	Collection Systems (active or passive) outside of refuse shall address migration control	Y	
60.759(a)(3)	All gas producing areas shall be controlled except as described below (i-iii).	Y	
60.759 (a)(3)(i)	Any segregated area of asbestos or non-degradable material only may be excluded, if documented adequately per 60.758(d).	Y	
60.759 (a)(3)(ii)	Any non-productive areas may be excluded from control, provided total NMOC emissions from all excluded areas is < 1% of total NMOC emissions from landfill. Document amount, location, and age of waste and all calculations for each excluded area.	Y	
60.759 (a)(3)(iii)	For calculating NMOC emissions, values for k and concentration of NMOC that have been previously approved shall be used or defaults if no values were approved. All non-degradable wastes that are being subtracted from total wastes for NMOC calculations must be documented adequately.	Y	
60.759(b)	Gas Collection System Components	Y	
60.759(b)(1)	Must be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved material and of suitable dimensions to convey projected gas amounts and withstand settling, traffic, etc.	Y	
60.759(b)(2)	Collectors shall not endanger liner, shall manage condensate and leachate, and shall prevent air intrusion and surface leaks.	Y	
60.759(b)(3)	Header connection assemblies shall include positive closing throttle valve, seals and couplings to prevent leaks, at least one sampling port, and shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved materials.	Y	
60.759(c)	Gas Mover Equipment shall be sized to handle maximum expected gas generation rate over the intended period of use.	Y	
60.759(c)(1)	For existing systems, flow data shall be used to project maximum flow rate.	Y	
60.759(c)(2)	For new systems, shall be calculated per 60.755(a)(1)	Y	

## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR Part	National Emission Standards for Hazardous Air Pollutants: General		
63, Subpart	Provisions (3/16/94)		
A			
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)	Records for startup, shutdown, malfunction, and maintenance	Y	
(i-v)			
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part	National Emission Standards for Hazardous Air Pollutants: Municipal		
63, Subpart	Solid Waste Landfills (1/16/03)		
AAAA			
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(1)	Comply with 40 CFR Part 60, Subpart WWW	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is	Y	
	required by 40 CFR Part 60, Subpart WWW or a State Plan		
	implementing 40 CFR Part 60, Subpart Cc		
63.1955(c)	Comply with all approved alternatives to standards for collection and	Y	
	control systems plus all SSM requirements and 6 month compliance		
	reporting requirements		
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate	Y	
	compliance?		
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR	Y	
	Part 60, Subpart WWW or the State Plan implementing 40 CFR Part		
	60, Subpart Cc, except that the annual report required by 40 CFR		
	60.757(f) must be submitted every 6 months		

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## IV. Source-Specific Applicable Requirements

# Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition #8366			
Part 1	Permitted Refuse Capacity (Cumulative Increase, Offsets, and Toxic Risk Management Policy)	Y	
Part 2	Number of Authorized Wells in Gas Collection System (Regulations 2-1-301, 8-34-301.1, and 8-34-305)	Y	
Part 3	Refuse Disposal Records (Cumulative Increase and Regulations 2-6-501 and 8-34-304)	Y	
Part 4	Landfill Gas Collection System – Continuous Operation (Regulations 8-34-301 and 8-34-305)	Y	
Part 5	Abatement Requirement for Collected Landfill Gas (Regulation 8-34-301)	Y	
Part 6	Flare Temperature Requirements (Regulation 8-34-301, Toxic Risk Management Policy, RACT, and 40 CFR 60.758(c)(1)(i))	Y	
Part 7	Temperature Monitor for Flare (Regulation 8-34-507)	N	
Part 8	NOx Emissions Limit (RACT and Offsets)	Y	
Part 9	CO Emissions Limit (RACT and Offsets)	Y	
Part 10	Annual Source Test Requirements (Regulations 8-34-301.3 and 8-34-412 and 40 CFR 60.752(b)(2)(iii)(B))	Y	
Part 11	Flare Heat Input Limits (Regulation 2-1-301)	Y	
Part 12	Surrogate SO2 Monitoring (Regulations 9-1-302 and 2-6-503)	Y	
Part 13	Dust Control Watering Requirements (Regulations 6-301 and 1-301)	Y	
Part 14	Requirement to Keep Paved Roadways Clean (Regulations 6-301 and 1-301)	Y	
Part 15	Visible Emissions – Particulate Fallout Restrictions (Regulations 6-301 and 1-301)	Y	
Part 16	Site Watering – Road Cleaning Records (Regulation 2-6-501)	Y	
Part 17	Low VOC soils for landfill cover (Regulations -8-40-205 and 8-40-604)	Y	

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#### IV. Source-Specific Applicable Requirements

## Table IV - A Source-Specific Applicable Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 18	Handling Procedures for Soil Containing Volatile Organic Compounds	Y	
	(Regulations 8-40-301, 8-40-304, and 8-40-305)		
Part 19	Reporting periods and report submittal due dates for the Regulation 8,	Y	
	Rule 34 report (Regulation 8-34-411 and 40 CFR 63.1980(a))		

<sup>1.</sup> This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

Table IV - B
Source-Specific Applicable Requirements
S-5: WOOD WASTE STOCKPILES

Applicable Requirement	Regulation Title or  Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD			
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #15022			
Part 1	Particulate Abatement Requirements (Regulations 6-301 and 1-301)	Y	
Part 2	Visible Emissions – Particulate Fallout Restrictions (Regulations 6-301 and 1-301)	Y	
Part 3	Observation of Emissions Source (Regulations 6-301, 6-305, and 2-1-403)	Y	

## IV. Source-Specific Applicable Requirements

## Table IV - C Source-Specific Applicable Requirements S-9: PORTABLE DIESEL ENGINE

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Description of Requirement	(1/11)	Dute
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Liquid and Solid Fuels	Y	
BAAQMD			
Condition			
#17680			
Part 1	Low Sulfur Fuel Requirement, Demonstration of Sulfur Content (Regulation 9-1-304)	Y	
Part 2	Observation of Emissions Source (Regulations 2-1-403 and 6-303)	Y	

Table IV - D
Source-Specific Applicable Requirements
S-10: PARTS CLEANER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	<b>Description of Requirement</b>	(Y/N)	Date
BAAQMD	Organic Compounds – General Provisions (6/15/94)		
Regulation 8,			
Rule 1			
8-1-320	Storage and Disposal of Solvent Impregnated Cloth or Paper	Y	·
8-1-321	Closed Containers for Spent or Fresh Organic Solvents	Y	

## IV. Source-Specific Applicable Requirements

## Table IV - D Source-Specific Applicable Requirements S-10: PARTS CLEANER

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD	Organic Compounds – Solvent Cleaning Operations (10/16/02)		
Regulation 8,			
Rule 16			
8-16-121	Limited Exemption, Single Cold Cleaner	Y	
8-16-122	Limited Exemption, Permitted Cold Cleaners	Y	
8-16-303	Cold Cleaner Requirements	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.2	Leak Repair Requirement	Y	
8-16-303.1.3	Solvent Storage or Disposal – Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-	Covered Containers for Waste Solvent Awaiting Pick-up	Y	
303.1.4(a)			
8-16-	On-site Waste Treatment	Y	
303.1.4(b)			
8-16-303.1.5	Solvent Evaporation Minimization Devices shall not be Removed	Y	
8-16-303.1.6	Solvent Spray Requirements	Y	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-303.3.4	Label Stating Operating Requirements	Y	
8-16-303.4	Control Device (one of the following)	Y	
8-16-303.4.1	Freeboard Ratio ≥ 0.75	Y	
8-16-303.4.2	Water Cover	Y	
8-16-303.4.3	Freeboard Chiller	Y	
8-16-303.4.4	Approved Emission Control Device	Y	
8-16-303.4.5	Enclosed Design	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide Annual Solvent Usage Records	Y	
8-16-501.5	Records Retained for Previous 24 Month Period	Y	

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#### IV. Source-Specific Applicable Requirements

## Table IV - D Source-Specific Applicable Requirements S-10: PARTS CLEANER

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
8-16-501.6	Records to Demonstrate Compliance with the Single Cold Cleaner	Y	
	Exemption		
BAAQMD			
Condition			
#17682			
Part 1	Solvent Usage Limit (Cumulative Increase)	Y	
Part 2	Monthly Solvent Usage Records (Regulation 2-6-501)	Y	·

Table IV - E Source-specific Applicable Requirements S-14, S-15, S-16, S-17: SMALL DIESEL IC ENGINES

Applicable Requirement	Regulation Title or  Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD	Description of Requirement	(1/11)	Dute
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-303	Ringelmann No. 2 Limitation	Y	
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Liquid and Solid Fuels	Y	
BAAQMD Condition #21617			
Part 1	Limit on hours of operation (Offsets)	Y	
Part 2	Low sulfur fuel requirement, demonstration of sulfur content (Regulation 9-1-304)	Y	

#### IV. Source-Specific Applicable Requirements

Table IV - E Source-specific Applicable Requirements S-14, S-15, S-16, S-17: SMALL DIESEL IC ENGINES

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Observation of emissions source (Regulation 6-303.1, Regulation 2-1-403)	Y	2 000
Part 4	Recordkeeping requirements (Offsets, Regulation 9-1-304)	Y	

Table IV - F
Source-specific Applicable Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			upon start-
Regulation 1	General Provisions and Definitions (5/2/01)		up
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limit on periods of inoperation	Y	
1-523.3	Reports of Violations	N	
1-523.4	Records	Y	
SIP			upon start-
Regulation 1	General Provisions and Definitions (6/28/99)		up
1-523	Parametric Monitoring and Recordkeeping Procedures	$Y^1$	
1-523.3	Reports of Violations	$Y^1$	
BAAQMD			upon start-
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		up
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD			upon start-
Regulation 8,	Organic Compounds – Solid Waste Disposal Sites (10/6/99)		up
Rule 34			
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	

## IV. Source-Specific Applicable Requirements

Table IV - F Source-specific Applicable Requirements S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-509	Key Emission Control System Operating Parameters	Y	
8-34-508	Gas Flow Meter	Y	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		upon start-
Regulation 9,			up
Rule 1			
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		upon start-
Regulation 9,			up
Rule 2			
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon		upon start-
Regulation 9	Monoxide from Stationary Internal Combustion Engines (1/20/93)		up
Rule 8			
9-8-301	Emission Limits - Fossil Derived Fuel Gas	Y	
9-8-301.2	Lean-Burn Engines: NOx Emission Limit	Y	

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## IV. Source-Specific Applicable Requirements

#### Table IV - F Source-specific Applicable Requirements S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
9-8-301.3	CO Emission Limit	Y	
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	Y	
9-8-302.3	CO Emission Limit	Y	
40 CFR Part	Standards of Performance for New Stationary Sources – General		upon start-
60, Subpart	<b>Provisions</b> (5/4/98)		up
A			
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other	Y	
	Correspondence to the Administrator		
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operation before Performance Tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part	Standards of Performance for New Stationary Sources – Standards		upon start-
60, Subpart	of Performance for Municipal Solid Waste Landfills (2/24/99)		up
www			
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Comply with paragraph (b)(2) or calculate NMOC emission rate	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752	Submit a collection and control system design plan	Y	
(b)(2)(i)			
60.752	Install a collection and control system	Y	
(b)(2)(ii)			

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## IV. Source-Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

Applicable Requirement	Regulation Title or  Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.752	Route collected gases to a control system	Y	
(b)(2)(iii)	<b>,</b>		
60.752	Reduce NMOC emissions by 98% by weight or reduce	Y	
(b)(2)(iii)(B)	NMOC outlet concentration to less than		
· / / / / /	20 ppmv as hexane at 3% O2, dry basis		
60.752	Operate in accordance with 60.753, 60.755, and 60.756	Y	
(b)(2)(iv)			
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii)	Y	
60.753(f)	Operate the control system at all times when collected gas is	Y	
	Routed to the control system		
60.754	Test Methods and Procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or	Y	
	malfunction, provided the duration of these shall not exceed 5		
	days for collection systems or 1 hour for control systems		
60.756	Monitoring of Operations	Y	
60.756(d)	Approval of other control devices	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.757	Reporting Requirements	Y	
60.757(c)	Submit a Collection and Control System Design Plan	Y	
60.757(e)	Submit Equipment Removal Report 30 days prior to removal or	Y	
	cessation of operation of the control equipment		
60.757(f)	Submit Annual Reports containing information required by (f)(1),	Y	
	(f)(2), and $(f)(3)$		
60.757(f)(1)	Value and length of time for exceedance of parameters	Y	
	monitored per 60.756(b) or (e)		
60.757(f)(2)	Description and duration of all periods when gas is diverted	Y	
	from the control device by a by-pass line		
60.757(f)(3)	Description and duration of all periods when control device	Y	
	was not operating for more than 1 hour		
60.758	Recordkeeping Requirements	Y	

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## IV. Source-Specific Applicable Requirements

## Table IV - F Source-specific Applicable Requirements S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.758(b)	Control Equipment Records	Y	
60.758(b)(2)	Performance test data for enclosed combustors other than		
	boilers or process heaters (greater than 44 MW heat input)		
60.758(c)	Records of parameters monitored pursuant to 60.756 (e)	Y	
60.758(e)	Records of any exceedance of 60.753(e) or (f)	Y	
40 CFR Part	National Emission Standards for Hazardous Air Pollutants:		upon start-
63, Subpart	General Provisions (3/16/94)		up
A			
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)	Records for startup, shutdown, malfunction, and maintenance	Y	
(i-v)			
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part	National Emission Standards for Hazardous Air Pollutants:		upon start-
63, Subpart	Municipal Solid Waste Landfills (1/16/03)		up
AAAA			
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is	Y	
	required by 40 CFR Part 60, Subpart WWW or a State Plan		
	implementing 40 CFR Part 60, Subpart Cc		
63.1955(c)	Comply with all approved alternatives to standards for collection and	Y	
	control systems plus all SSM requirements and 6 month compliance		
	reporting requirements		
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	

#### IV. Source-Specific Applicable Requirements

Table IV - F
Source-specific Applicable Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR	Y	
	Part 60, Subpart WWW or the State Plan implementing 40 CFR Part		
	60, Subpart Cc, except that the annual report required by 40 CFR		
	60.757(f) must be submitted every 6 months		
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR	Y	
	Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM		
	Plans and Reports		
BAAQMD			upon start-
Condition			up
#21619			
Part 1	Control requirement for collected landfill gas (Regulation 8-34-301)	Y	
Part 2	Fuel requirements (Cumulative Increase)	Y	
Part 3	Engine heat input limits (Regulation 2-1-301)	Y	
Part 4	Landfill gas flow meter and automatic control valve (Regulations 8-34-	Y	
	301, 8-34-508)		
Part 5	NOx emission limit (BACT, Cumulative Increase)	Y	
Part 6	CO emission limit (BACT, Cumulative Increase)	Y	
Part 7	NMOC emission limit (Cumulative Increase, Regulation 8-34-301.4)	Y	
Part 8	Key emission control system operating parameters (Regulations 8-34-	Y	
	301.4, 8-34-509)		
Part 9	Source test requirements (BACT, Cumulative Increase, Regulations 8-	Y	
	34-301.4, 8-34-412, 9-8-302.1, 9-8-302.3)		
Part 10	Recordkeeping requirements (BACT, Cumulative Increase, Regulation	Y	
	8-34-501)		

<sup>1.</sup> This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved (or disapproved) the District's revision of the regulation.

### V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

### VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

- 1. The TriCities Landfill S-1 is permitted for a total refuse capacity of 19,271,000 cubic yards (approximately 13,489,700 tons), with a maximum refuse acceptance rate of 2,628 tons/day. Prior to increasing the design capacity of the landfill, the owner/operator of this site shall first apply for and receive from the District a modified permit to operate. (Basis: Cumulative Increase, Offsets, and Toxic Risk Management Policy)
- 2. The Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described. Increasing or decreasing the number of wells or collectors, or significantly changing the length of collectors or the locations of wells or collectors are modifications that are subject to the Authority to Construct requirement.

The Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in Permit Application # 3515.

**Required Components** 

Total Number of Vertical Wells:

25

(Basis: Regulations 2-1-301, 8-34-301.1, and 8-34-305)

- 3. In order to demonstrate compliance with the above requirements, the S-1 Permit Holder shall maintain the following records:
  - a. Monthly records of the quantity of refuse accepted and placed in the landfill.
  - b. For areas of the landfill not controlled by a landfill gas collection system, the Permit Holder shall maintain a record of the date that waste was initially placed in the area or cell.
  - c. The cumulative amount of waste placed in each uncontrolled area or cell on a monthly basis.
  - d. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the types and amounts of all non-decomposable waste placed in the area or cell shall be recorded. If non-decomposable waste makes up less than 100% of the contents of a given cell, that percentage shall be noted.
  - e. The initial operation date for each new landfill gas well and collector.

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### VI. Permit Conditions

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

f. An accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors as identified in the Collection and Control System Design Plan. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least every six months to indicate changes in refuse boundaries and to include any newly installed wells and collectors.

These records shall be kept on-site and be made available for inspection to District personnel upon request for a period of five years from the date on which a record was made. (Basis: Cumulative Increase and Regulations 2-6-501 and 8-34-304)

- 4. The landfill gas collection system described in Part 2 above shall be operated continuously. Wells shall not be disconnected or removed from operation nor shall isolation or adjustment valves be closed without written authorization from the District, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (Basis: Regulations 8-34-301 and 8-34-305)
- 5. All landfill gas collected by the gas collection system for S-1 shall be abated at all times by the Landfill Gas Flare A-3 or the IC Engine Generator Sets S-18, S-19, and S-20 (operation of the IC Engines is subject to Permit Condition #21619). Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 or to inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (Basis: Regulation 8-34-301)
- 6. The combustion zone temperature of the flare shall be maintained at a minimum temperature of 1450 degrees F, averaged over any 3-hour period. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO may revise this minimum temperature limit in accordance with the procedures identified in Regulation 2-6-414 or 2-6-415, based on the following criteria. The minimum combustion zone temperature for the flare shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature is not less than 1400 degrees F. (Basis: Regulation 8-34-301, Toxic Risk Management Policy, RACT, and 40 CFR 60.758(c)(1)(i))

### VI. Permit Conditions

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

- 7. The Landfill Gas Flare A-3 shall be equipped with a combustion temperature readout monitor and continuous recorder to measure and record the temperature in the combustion zone. (Basis: Regulation 8-34-507)
- 8. Emissions of Nitrogen Oxides (NOx) from the Flare A-3 shall not exceed 0.06 pounds per million BTU (calculated as NO<sub>2</sub>). (basis: RACT and Offsets)
- 9. Emissions of Carbon Monoxide (CO) from the Flare A-3 shall not exceed 0.3 pounds per million BTU. (basis: RACT and Offsets).
- 10. In order to demonstrate compliance with Regulation 8, Rule 34, Section 301.3, Regulation 9, Rule 1, Section 302, 40 CFR 60 .752(b)(2)(iii)(B), and the above requirements, the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-3). The annual source test shall determine the following:
  - a. Landfill gas flow rate to the flare (dry basis)
  - b. Concentrations (dry basis) of methane (CH<sub>4</sub>) and total non-methane organic compounds (NMOC) in the landfill gas;
  - c. Stack gas flow rate from the flare (dry basis)
  - d. Concentrations (dry basis) of nitrogen oxides (NOx), carbon monoxide (CO), CH<sub>4</sub>, NMOC, and O<sub>2</sub> in the flare stack gas
  - e. The NMOC destruction efficiency achieved by the flare
  - f. The average combustion temperature in the flare during the test period.

Annual source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain its approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 60 days after the test date. (Basis: Regulations 8-34-301.3 and 8-34-412 and 40 CFR 60.752(b)(2)(iii)(B))

### VI. Permit Conditions

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

- 11. The heat input to the A-3 Flare shall not exceed 1,800 million BTU per day or 657,000 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the flare based on the landfill gas flow rate recorded pursuant to Part10, the average methane concentration in the landfill gas based on the most recent source test, and a high heating value for methane of 1013 BTU/scf. The records shall be retained for five years and shall be made available to the District staff upon request. (Basis: Regulation 2-1-301)
- 12. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in control systems exhaust. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 1300 ppmv (dry). In order to demonstrate compliance with this part, the Permit Holder shall measure the total sulfur content in collected landfill gas on a quarterly basis using a draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter.

(Basis: Regulations 9-1-302 and 2-6-503)

- 13. On rainless operating days, water shall be applied as necessary and at least 2 times per full operational day to all unpaved roadways and active soil removal and fill areas associated with this facility to suppress dust emissions. On operating days when rain has fallen in the last 24 hours, water shall be applied as necessary to prevent visible dust emissions. (Basis: Regulations 6-301 and 1-301)
- 14. Paved roadways at the facility shall be kept sufficiently clear of dirt and debris as to prevent visible particulate emissions from vehicle traffic or wind. (Basis: Regulations 6-301 and 1-301)

### VI. Permit Conditions

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

- 15. Visible dust emissions from any part of the facility shall not exceed Ringelmann 1.0 or result in fallout on adjacent property in such quantities as to cause a public nuisance. (Basis: Regulations 6-301 and 1-301)
- 16. In order to demonstrate compliance with Parts 13 and 14, the operator of this facility shall keep records of all site watering and road cleaning activities in a District approved log. These records shall be kept on-site and be made available for inspection to District personnel upon request for a period of five years from the date on which the record was made. (Basis: Regulation 2-6-501)
- 17. Low VOC soil (soil that contains 50 ppmw or less of VOC) is not considered to be "contaminated soil" and may be used as daily, intermediate, or final cover material for landfill waste operations if the organic concentration above the soil does not exceed 50 ppmv (expressed as methane, C1). To demonstrate compliance with this requirement, each lot of soil to be used as cover material shall be randomly screened for VOC surface emissions (in such a manner as to be representative of the entire lot) using the testing procedures outlined in Regulation 8-40-604. The Permit Holder shall keep the following records for each lot of soil subject to this requirement:
  - a. The soil lot number as established in part 18m.i. (below).
  - b. The time and date of the soil screening.
  - c. The name and affiliation of the person performing the monitoring.
  - d. The results of the screening and an acknowledgement that the procedures outlined in Regulation 8-40-604 were used.

Soil presumed to be low VOC soil that is found to have a surface VOC concentration greater than 50 ppmv as described above shall be considered contaminated soil and will be subject to the requirements of part 2 of these conditions. (basis: Regulations 8-40-205, 8-40-604)

- 18. Handling Procedures for Soil Containing Volatile Organic Compounds
  - a. The procedures listed below in subparts b-l do not apply if the following criteria are satisfied. However, the record keeping requirements in subpart m, below, are applicable.
    - i. The Permit Holder has appropriate documentation demonstrating that either the organic content of the soil or the organic concentration above the soil is below the "contaminated" level (as defined in Regulation 8, Rule 40, Sections 205, 207, and 211). The handling of soil containing VOCs in concentrations below the "contaminated" level is subject to Part 17 above.

### Condition #8366

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- ii. The Permit Holder has no documentation to prove that soil is not contaminated, but source of the soil is known and there is no reason to suspect that the soil might contain organic compounds.
- b. The Permit Holder shall provide notification to the Compliance and Enforcement Division of the Permit Holder's intention to accept contaminated soil at the facility at least 24 hours in advance of receiving the contaminated soil. The Permit Holder shall provide an estimate of the amount of contaminated soil to be received, the degree of contamination (range and average VOC Content), and the type or source of contamination.
- c. Any soil received at the facility that is known or suspected to contain volatile organic compounds (VOCs) shall be handled as if the soil were contaminated, unless the Permit Holder receives test results proving that the soil is not contaminated. To prove that the soil is not contaminated, the Permit Holder shall collect soil samples in accordance with Regulation 8-40-601 within 24 hours of receipt of the soil by the facility. The organic content of the collected soil samples shall be determined in accordance with Regulation 8-40-602.
  - i. If these test results indicate that the soil is still contaminated or if the soil was not sampled within 24 hours of receipt by the facility, the Permit Holder must continue to handle the soil in accordance with the procedures set forth in subparts e.-l. below, until the soil has completed treatment or has been placed in a final disposal location and adequately covered. Storing soil in a temporary stockpile or pit is not considered treatment. Co-mingling, blending, or mixing of soil lots is not considered treatment.
  - ii. If these test results indicate that the soil as received at the facility has an organic content of 50 ppmw or less, then the soil may be considered to be not contaminated and need not be handled in accordance with the procedures listed in subparts e.-l. below.
- d. Any contaminated soil received at the facility shall be clearly identified as contaminated soil, shall be handled in accordance with subparts e.-l. below, and shall be segregated from non-contaminated soil. Contaminated soil lots may not be co-mingled, blended, or otherwise mixed with non-contaminated soil lots prior to treatment, reuse, or disposal. Mixing soil lots in an attempt to reduce the overall concentration of the contaminated soil or to circumvent any requirements or limits is strictly prohibited.

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FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

- e. On-site handling of contaminated soil shall be limited to no more than 2 on-site transfers per soil lot. For instance, unloading soil from off-site transport vehicles into a temporary storage pile is 1 transfer. Moving soil from a temporary storage to a staging area is 1 transfer. Moving soil from a temporary storage pile to a final disposal site is 1 transfer. Moving soil from a staging area to a final disposal site is 1 transfer. Therefore, unloading soil from off-site transport into a temporary storage pile and then moving the soil from that temporary storage pile to the final disposal site is allowed. Unloading soil from off-site transport into a staging area and then moving the soil from that staging area to the final disposal site is allowed. However, unloading soil from off-site transport to a temporary storage pile, moving this soil to a staging area, and then moving the soil again to a final disposal site is 3 on-site transfers and is not allowed.
- f. If the contaminated soil has an organic content of less than 500 ppmw, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 90 days of receipt at the facility.
- g. If the contaminated soil has an organic content 500 ppmw or more, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 45 days of receipt at the facility.
- h. All active storage piles shall meet the requirements of Regulation 8-40-304 by using water sprays, vapor suppressants or approved coverings to minimize emissions. The exposed surface area of any active storage pile (including the active face at a landfill) shall be limited to 6000 ft<sup>2</sup>. The types of storage piles that may become subject to these provisions include (but are not limited to) truck unloading areas, staging areas, temporary stockpiles, soil on conveyors, bulldozers or trucks, the active face of a landfill, or other permanent storage pile at the final disposal location.
- i. All inactive storage piles shall meet the requirements of Regulation 8-40-305 including the requirement to cover contaminated soil during periods of inactivity longer than one hour. The types of storage piles that may become subject to these provisions include (but are not limited to) soil on trucks or other on-site equipment, staging areas, temporary stockpiles, and the permanent storage pile at the final disposal location. District approved coverings for inactive storage piles include continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) or encapsulating vapor suppressants (with re-treatment as necessary to prevent emissions).

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- j. The Permit Holder must:
  - i. Keep contaminated soil covered with continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) whenever soil is to be stored in temporary stockpiles or during on-site transport in trucks. Soil in trucks shall not be left uncovered for more than 1 hour.
  - ii. Establish a tipping area for contaminated soils near the active face that is isolated from the tipping area for other wastes.
  - iii. Spray contaminated soil with water or vapor suppressant immediately after dumping the soil from a truck at the tipping area.
  - iv. Ensure that all contaminated soil is transferred from the tipping area to the active face immediately after spraying with water or vapor suppressant.
  - v. Ensure that contaminated soil in the tipping area is not disturbed by subsequent trucks. Trucks shall not drive over contaminated soil in the tipping area or track contaminated soil out of the tipping area on their wheels.
  - vi. Spray contaminated soil on the active face with water or vapor suppressant (to keep the soil visibly moist) until the soil can be covered with an approved covering.
  - vii. Limit the area of exposed soil on the active face to no more than 6000 ft<sup>2</sup>.
  - viii. Ensure that contaminated soil spread on the active face is completely covered on all sides with one of the following approved coverings: at least 6 inches of clean compacted soil, at least 12 inches of compacted garbage, or at least 12 inches of compacted green waste.
  - ix. Ensure that covering of soil on the active face is completed within one hour of the time that the soil was first dumped from a truck at the tipping area.
- k. Contaminated soil shall not be used as daily, intermediate, or final cover material for landfill waste operations unless the requirements of Regulation 8, Rule 40, Sections 116 or 117 have been satisfied.
- 1. Contaminated soil is considered to be a decomposable solid waste pursuant to Regulation 8, Rule 34. All contaminated soil disposed of at a site shall be included in any calculations of the amount of decomposable waste in place that are necessary for annual reporting requirements or for purposes of 8-34-111 or 8-34-304.

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### VI. Permit Conditions

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

- m. The Permit Holder shall keep the following records for each lot of soil received, in order to demonstrate on-going compliance with the applicable provisions of Regulation 8, Rule 40.
  - i. For all soil received by the facility (including soil with no known contamination), record the arrival date at the facility, the soil lot number, the amount of soil in the lot, the organic content or organic concentration of the lot (if known), the type of contamination (if any), and keep copies of any test data or other information that documents whether the soil is contaminated (as defined in 8-40-205) or not contaminated, with what, and by how much.
  - ii. If the soil is tested for organic content after receipt by the facility, a report with the sampling date, test results, and the date results were received.
  - iii. For all on-site handling of contaminated soil, use a checklist or other approved method to demonstrate that appropriate procedures were followed during all on-site handling activities. One checklist shall be completed for each day and for each soil lot (if multiple lots are handled per day).
  - iv. For soil aerated in accordance with 8-40-116 or 117 record the soil lot number, the amount of soil in the lot, the organic content, the final placement date, the final placement location, and describe how the soil was handled or used on-site.
  - v. For final disposal at a landfill, record on a daily basis the soil lot number, the amount of soil placed in the landfill, the disposal date, and the disposal location.

All records shall be retained for at least 5 years from the date of entry and shall be made available for District inspection upon request.

(Basis: Regulations 8-40-301, 8-40-304 and 8-40-305)

### VI. Permit Conditions

### Condition #8366

FOR S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

19. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments. The reporting periods and report submittal due dates for the semi-annual increments of the Regulation 8-34-411 report and the MSW Landfill NESHAP report, which is required pursuant to 40 CFR Part 63.1980(a), shall be synchronized with the reporting periods and report submittal due dates for the semi-annual MFR Permit monitoring reports that are required by Section I.F of the MFR Permit for this site. A single report may be submitted to satisfy the requirements of Section I.F, Regulation 8-34-411, and 40 CFR Part 63.1980(a), provided that all items required by each applicable reporting requirement are included in the single report.

(Basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

### **Condition # 15022**

FOR S-5: WOOD WASTE STOCKPILES

- 1. Water spray (A-1), minimized drop height, and other particulate reducing techniques shall be used as necessary to minimize particulate emissions from the wood debris stockpiling operations. (Basis: Regulations 6-301 and 1-301)
- 2. Visible emissions shall not exceed Ringelmann 1.0 nor shall it result in fallout on adjacent properties in sufficient quantities as to cause a public nuisance per Regulation 1-301. (Basis: Regulations 6-301 and 1-301)
- 3. Observation for visible particulate emissions is required each time material to added to or removed from the Wood Waste Stockpiles. If visible emissions are detected, the operator of the source shall take the necessary corrective action to stop the emissions. (Basis: Regulations 6-301, 6-305, and 2-1-403)

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### **Condition # 17680**

FOR S-9: PORTABLE DIESEL ENGINE

- 1. Only low sulfur fuel (<0.5% sulfur by weight) shall be combusted at S-9. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (Basis: Regulation 9-1-304)
- 2. The exhaust of the Portable Diesel Engine for shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the operator of the source shall take the necessary corrective action to stop the emissions. (Basis: Regulations 2-1-403 and 6-303)

### **Condition # 17682**

FOR S-10: PARTS CLEANER

- 1. The net solvent usage at the Parts Cleaner S-10 shall not exceed 150 gallons during any consecutive 12-month period. (Basis: Cumulative Increase).
- 2. In order to demonstrate compliance with part #1 of this condition, monthly records of the amount of make-up solvent added to S-10 shall be recorded in a District approved log. These records shall be kept on site and be available for District inspection for a period of at least 5 years from the date on which the record was made. (Basis: Regulation 2-6-501)

### **Condition # 21617**

For S-9, S-14, S-15, S-16, S-17: Small Diesel IC Engines

- 1. The Diesel Engines S-9, S-14, S-15, S-16, and S-17 shall each be limited to 1,456 hours per year of operation. Each engine shall be equipped with a non-resettable totalizing meter that measures and records the hours of operation for the engine. (basis: Offsets)
- 2. Only low sulfur fuel (<0.5% sulfur by weight) shall be combusted at these engines. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (basis: Regulation 9-1-304)

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### **Condition # 21617**

For S-9, S-14, S-15, S-16, S-17: Small Diesel IC Engines

- 3. The exhaust of these engines shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the operator of the source shall take the necessary corrective action to stop the emissions. (basis: Regulation 6-303.1, Regulation 2-1-403)
- 4. In order to demonstrate compliance with the above requirements, the operator of these engines shall keep the following records in a District approved log. These records shall be updated on at least a monthly basis, kept on-site, and be available for District inspection for at least 5 years from the date on which a record was made. (basis: Offsets, Regulation 9-1-304)
  - a. operating hours for each engine
  - b. vendor certified fuel sulfur content

### **Condition # 21619**

For S-18, S-19, S-20: IC Engine Generator Sets

- 1. All collected landfill gas shall be vented to properly operating abatement equipment including the IC Engines S-18, S-19, and S-20 and/or the Landfill Gas Flare A-3. Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during control system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)
- 2. The IC Engines S-18, S-19, and S-20 shall be fired on landfill gas. If required, natural gas can be used as a supplemental fuel, but it shall not reduce or replace landfill gas available for use in this engine. Natural gas shall not be used as supplemental fuel when the A-3 Flare is operating concurrently with these engines. (basis: Cumulative Increase)

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### VI. Permit Conditions

### **Condition # 21619**

For S-18, S-19, S-20: IC Engine Generator Sets

- 3. The Heat Input to each of the IC Engines S-18, S-19, and S-20 shall not exceed 252 million BTU per day and shall not exceed 91,980 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the engine based on (a) the landfill gas flow rate recorded pursuant to part 4, (b) the average methane concentration in the landfill gas based on the most recent source test, and (c) a high heating value for methane of 1013 BTU/cubic foot at 60 degrees F. (basis: Regulation 2-1-301)
- 4. A District approved flow meter, to measure and record the landfill gas flow into each engine, shall be installed prior to any operation and maintained in good working condition. An automatically controlled landfill gas valve shall be installed, and maintained to ensure that landfill gas is immediately made available for flaring to the A-3 Landfill Gas Flare when the engine is down. (basis: Regulation 8-34-301, Regulation 8-34-508)
- 5. Emissions of Nitrogen Oxides (NO<sub>x</sub>) from each of the IC Engines S-18, S-19, and S-20 shall not exceed either 0.6 grams of NO<sub>x</sub>, calculated as NO<sub>2</sub>≠ per brake horsepower-hour or 37 ppmv of NO<sub>x</sub>, @ 15% oxygen, dry basis. (basis: BACT, Cumulative Increase)
- 6. Emissions of Carbon Monoxide (CO) from each of the IC Engines S-18, S-19, and S-20 shall not exceed either 2.1 grams of CO/ per brake horsepower-hour or 215 ppmv of CO @ 15% oxygen, dry basis. (basis: BACT, Cumulative Increase)
- 7. Emissions of Non-Methane Organic Compounds (NMOC) from each of the IC Engines S-18, S-19, and S-20 shall be less than 120 ppm by volume (dry), expressed as methane @ 3% oxygen. (basis: Cumulative Increase, Regulation 8-34-301.4)

### **Condition # 21619**

For S-18, S-19, S-20: IC Engine Generator Sets

- 8. In order to demonstrate compliance with part 7, the permit holder of these IC Engines shall determine key emission control system operating parameter(s) that are indicative of NMOC destruction efficiency and that can be monitored. The permit holder shall submit a proposal for the key emission control system operating parameter(s) that will be measured during the initial source test and monitored during subsequent engine operation to the Source Test Section and to the Permit Services Division at least 14 days prior to conducting the initial source test required by Part 9. The specific operating parameter, allowable operating range, type and location of monitors, and monitoring frequency shall be added to this part via a minor permit revision after the District has received the results of the initial source test. Within 105 days of start-up of S-18, S-19, and S-20, the key emission control system operating parameter(s) shall be maintained within the range established by the most recent source test, during all times that the IC Engine is operated. (basis: Regulations 8-34-301.4 and 8-34-509)
- 9. In order to demonstrate compliance with parts 5, 6 and 7 above and Regulations 8-34-301.4, 9-8-302.1 and 9-8-302.3, the permit holder shall conduct source testing of S-18, S-19, and S-20 to determine the emissions of NO<sub>x</sub>, CO, and NMOC and the destruction efficiency for NMOC. In addition, the operating range for each key emission control system operating parameter required by part 8 shall be determined by each test. An initial source test shall be performed within 60 days of startup, followed by annual source tests thereafter. All source testing shall be performed in accordance with the Manual of Procedures. The facility shall obtain prior approval from the Source Test Manager for the location of sampling ports and source testing procedures. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. All source test results shall be delivered to the Compliance and Enforcement Division and to the Source Test Section within 45 days of the date of the test. The time interval between source testing shall not exceed 12 months. (basis: BACT, Cumulative Increase, Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)

### VI. Permit Conditions

### **Condition # 21619**

For S-18, S-19, S-20: IC Engine Generator Sets

- 10. The owner/operator of the IC Engines S-18, S-19, and S-20 shall maintain the following records in a District approved log:
  - a. The times and dates of all startups and shutdowns for each engine and the reason for each shutdown.
  - b. The total landfill gas and natural gas throughput to each engine on a monthly basis.
  - c. Records of key emission control system operating parameters for each engine on at least a monthly basis.
  - d. All source test results.
  - e. The operating times and the landfill gas flow rate to each engine on a daily basis, summarized monthly.
  - f. The heat input to each engine, pursuant to part 3 above.

All records shall be maintained on-site for a minimum of 5 years and shall be made available for inspection by District personnel upon request. (basis: BACT, Cumulative Increase, Regulation 8-34-501)

# VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included only to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

Table VII – A

Applicable Limits and Compliance Monitoring Requirements
S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND
A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Collection	BAAQMD	Y		For Inactive/Closed Areas:	BAAQMD	P/E	Records
System	8-34-304.1			collection system	8-34-501.7		
Installa-				components must be	and 501.8 and		
tion Dates				installed and operating by	BAAQMD		
				2 years + 60 days	Condition		
				after initial waste	#8366, Part 3		
				placement			
Collection	BAAQMD	Y		For Active Areas:	BAAQMD	P/E	Records
System	8-34-304.2			Collection system	8-34-501.7		
Installa-				components must be	and 501.8 and		
tion Dates				installed and operating by	BAAQMD		
				5 years + 60 days	Condition		
				after initial waste	#8366, Part 3		
				placement			

# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Collection	BAAQMD	Y		For Any Uncontrolled	BAAQMD	P/E	Records
System	8-34-304.3			Areas or Cells: collection	8-34-501.7		
Installa-				system components must be	and 501.8 and		
tion Dates				installed and operating	BAAQMD		
				within 60 days after the	Condition		
				uncontrolled area or cell	#8366, Part 3		
				accumulates 1,000,000 tons			
				of decomposable waste			
Collection	40 CFR	Y		For Inactive/Closed Areas:	40 CFR	P/E	Records
System	60.753			collection system	60.758(a),		
Installa-	(a)(2) and			components must be	(d)(1) and		
tion Dates	60.755			installed and operating by	(d)(2), and		
	(b)(2)			2 years + 60 days	60.759(a)(3)		
				after initial waste			
				placement			
Collection	40 CFR	Y		For Active Areas:	40 CFR	P/E	Records
System	60.753			Collection system	60.758(a),		
Installa-	(a)(1) and			components must be	(d)(1) and		
tion Dates	60.755			installed and operating by	(d)(2)		
	(b)(1)			5 years + 60 days			
				after initial waste			
				placement			
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	P/E	Records of
	8-34-301			system shall operate	8-34-501.1,		Collection
	and 301.1			continuously and all	501.2		and Control
	and			collected gases shall be			System
	BAAQMD			vented to a properly			Downtime
	Condition			operating control system			
	#8366,						
	Parts 4, 5						

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# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	С	Gas Flow
	8-34-301			system shall operate	8-34-501.10		Meter and
	and 301.1			continuously and all	and 508		Recorder
				collected gases shall be			(every 15
				vented to a properly			minutes)
				operating control system			
Gas Flow	40 CFR	Y		Operate a Collection	40 CFR	C or P/M	Gas Flow
	60.753(a)			System in each area or cell	60.756(b)(2)		Meter and
	and (e)			and vent all collected gases	(i or ii) and		Recorder
				to a properly operating	60.758(c)(2)		(every 15
				control system			minutes) or
							Monthly
							Inspection of
							Bypass
							Valve and
							Lock and
							Records
Collection	BAAQMD	Y		240 hours/year nor 5	BAAQMD	P/D	Operating
and	8-34-113.2			consecutive days	8-34-501.1		Records
Control							
Systems							
Shutdown							
Time							
Collection	40 CFR	Y		5 days per event	40 CFR	P/D	Operating
System	60.755(e)				60.7(b),		Records (all
Startup					60.757(f)(2)		occurrences
Shutdown					and (f)(4)		and duration
or							of each)
Malfunc-							
tion							

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# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Startup	40 CFR	Y		Minimize Emissions by	40 CFR	P/E	Records (all
Shutdown	63.6(e)			Implementing SSM Plan	63.1980(a-b)		occurrences,
or Mal-							duration of
function							each,
Pro-							corrective
cedures							actions)
Periods of	BAAQMD	Y		15 consecutive	BAAQMD	P/D	Operating
Inopera-	1-523.2			days/incident and	1-523.4		Records for
tion for				30 calendar days/12 month			All
Para-				period			Parametric
metric							Monitors
Monitors							
Contin-	40 CFR	Y		Requires Continuous	40 CFR	P/D	Operating
uous	60.13(e)			Operation except for	60.7(b)		Records for
Monitors				breakdowns, repairs,			All
				calibration, and required			Continuous
				span adjustments			Monitors
Wellhead	BAAQMD	Y		< 0 psig	BAAQMD	P/M	Monthly
Pressure	8-34-305.1				8-34-414,		Inspection
					501.9 and		and Records
					505.1		
Wellhead	40 CFR	Y		< 0 psig	40 CFR	P/M	Monthly
Pressure	60.753(b)				60.755(a)(3),		Inspection
					60.756(a)(1),		and Records
					and 60.758(c)		
					and (e)		
Temper-	BAAQMD	Y		< 55 °C	BAAQMD	P/M	Monthly
ature of	8-34-305.2				8-34-414,		Inspection
Gas at					501.9 and		and Records
Wellhead					505.2		

# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Temper-	40 CFR	Y		< 55 °C	40 CFR	P/M	Monthly
ature of	60.753(c)				60.755(a)(5),		Inspection
Gas at					60.756(a)(3),		and Records
Wellhead					and 60.758(c)		
					and (e)		
Gas	BAAQMD	Y		$N_2 < 20\%$ <b>OR</b> $O_2 < 5\%$	BAAQMD	P/M	Monthly
Concen-	8-34-305.3				8-34-414,		Inspection
trations at	or 305.4				501.9 and		and Records
Wellhead					505.3 or		
					505.4		
Gas	40 CFR	Y		$N_2 < 20\%$ <b>OR</b> $O_2 < 5\%$	40 CFR	P/M	Monthly
Concen-	60.753(c)				60.755(a)(5),		Inspection
trations at					60.756(a)(2),		and Records
Wellhead					and 60.758(c)		
					and (e)		
Well	BAAQMD	Y		No more than 5 wells at a	BAAQMD	P/D	Records
Shutdown	8-34-116.2			time or 10% of total	8-34-116.5		
Limits				collection system,	and 501.1		
				whichever is less			
Well	BAAQMD	Y		24 hours per well	BAAQMD	P/D	Records
Shutdown	8-34-116.3				8-34-116.5		
Limits					and 501.1		
Well	BAAQMD	Y		No more than 5 wells at a	BAAQMD	P/D	Records
Shutdown	8-34-117.4			time or 10% of total	8-34-117.6		
Limits				collection system,	and 501.1		
				whichever is less			
Well	BAAQMD	Y		24 hours per well	BAAQMD	P/D	Records
Shutdown	8-34-117.5				8-34-117.6		
Limits					and 501.1		

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# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
TOC	BAAQMD	Y		1000 ppmv as methane	BAAQMD	P/Q	Quarterly
(Total	8-34-301.2			(component leak limit)	8-34-501.6		Inspection of
Organic					and 503		collection
Com-							and control
pounds							system
Plus							components
Methane)							with OVA
							and Records
TOC	BAAQMD	Y		500 ppmv as methane at 2	BAAQMD	P/M, Q, and	Monthly
	8-34-303			inches above surface	8-34-415,	E	Visual
					416, 501.6,		Inspection of
					506 and 510		Cover,
							Quarterly
							Inspection
							with OVA of
							Surface,
							Various
							Reinspec-
							tion Times
							for Leaking
							Areas, and
							Records

# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
TOC	40 CFR	Y		<500 ppmv as methane at	40 CFR	P/M, Q and	Monthly
	60.753(d)			5-10 cm from surface	60.755(c)(1),	Е	Visual
					(4) and (5),		Inspection of
					60.756(f),		Cover,
					and		Quarterly
					60.758(c) and		Inspection
					(e)		with OVA of
							Surface,
							Various
							Reinspec-
							tion Times
							for Leaking
							Areas, and
							Records
Non-	BAAQMD	Y		98% removal by weight	BAAQMD	P/A	Initial and
Methane	8-34-301.3			OR	8-34-412 and		Annual
Organic				$< 30$ ppmv dry @ 3% $O_2$ ,	8-34-501.4		Source Tests
Com-				expressed as methane			and Records
pounds							
(NMOC)							
NMOC	40 CFR	Y		98% removal by weight	40 CFR 60.8	P/I	Initial
	60.752(b)			OR	and 60.752(b)		Source Test
	(2)(iii)(B)			$< 20$ ppmv dry @ 3% $O_2$ ,	(2)(iii)(B)		and Records
				expressed as hexane	and		
					60.758(b)(2)		
Low VOC	BAAQMD	Y		Soil with Organic Vapor	BAAQMD	P/E	Surface
Soil	Condition			Concentration ≤50 ppmv	8-40-604 and		Organic
	# 8366,			Acceptable as Cover	BAAQMD		Vapor
	Part 17			Material	Condition #		Monitoring
					8366, Part 17		
					rait 1/		

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# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Contami-	BAAQMD	Y		≤ 50 ppmw organics;	BAAQMD	P/E	Records of
nated Soil	Permit			or	Permit		Soil Test
Limits	Condition			≤ 50 ppmw TPH as	Condition		Data
	#8366,			gasoline, ≤ 50 ppmw TPH	#8366,		
	Part 18			as diesel, and $\leq 50$ ppmw	Part 18m		
				TPH as motor oil;			
				or			
				IBP of all organics $\geq 302$			
				degrees F			
Total	BAAQMD	Y		150 pounds per project and	BAAQMD	P/E	Records
Aeration	8-40-118			toxic air contaminant	Permit		
Project				emissions per year	Condition		
Emissions				<baaqmd 2-1-316<="" table="" td=""><td>#8366,</td><td></td><td></td></baaqmd>	#8366,		
				limits	Part 18m		
Amount	BAAQMD	Y		Prohibited for Soil with	BAAQMD	P/E	Records
of	8-40-301			Organic Content >50 ppmw	Permit		
Contami-	and			unless exempt per	Condition		
nated Soil	BAAQMD			BAAQMD 8-40-116, 117,	#8366,		
Aerated	Condition			or 118	Part 18m		
or Used	#8366,						
as Cover	Part 18k						
Contami-	BAAQMD	Y		Limited to 2 on-site	BAAQMD	P/E	Records
nated Soil	Permit			transfers per lot of	Permit		
Handling	Condition			contaminated soil	Condition		
	#8366,				#8366,		
	Part 18e				Part 18m		
Contami-	BAAQMD	Y		If organic content is:	BAAQMD	P/E	Records
nated Soil	Permit			< 500 ppmw, storage time	Permit		
On-Site	Condition			≤ 90 days;	Condition		
Storage	#8366,			If organic content is:	#8366,		
Time	Part 18f-g			≥ 500 ppmw, storage time ≤	Part 18m		
				45 days			

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# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for 3 minutes in any hour (applies to landfill operations)	BAAQMD Permit Condition #8366,	P/D	Records of Site Watering and Road
Opacity	BAAQMD Condition #8366, Part 13	Y		Site Watering: 2 times daily; all unpaved roads and active soil removal and fill areas (rainless operating days only)	Part 16  BAAQMD  Condition  #8366,  Part 16	P/D	Cleaning Records
Opacity	BAAQMD Condition #8366, Part 14	Y		Paved Road Cleaning: (as necessary)	BAAQMD Condition #8366, Part 16	P/D	Records
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hour (applies to flare)	None	N	NA
FP	BAAQMD 6-310	Y		$\leq$ 0.15 grains/dscf (applies to flare only)	None	N	NA
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Ground Level Concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours	None	N	NA
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 8366, Part 12	Y		Total Sulfur Content ≤ 1300 ppmv (dry)	BAAQMD Condition # 8366, Part 12	P/Q	Sulfur Analysis of landfill gas only

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# Table VII – A Applicable Limits and Compliance Monitoring Requirements S-1: LANDFILL WITH GAS COLLECTION SYSTEM AND A-3: LANDFILL GAS FLARE

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
$SO_2$	BAAQMD	Y		≤300 ppm (dry)	BAAQMD	P/Q	Sulfur
	Regulation				Condition		Analysis of
	9-1-302				# 8366,		landfill gas
					Part 12		as a
							surrogate for
							SO2
							monitoring
Total	BAAQMD	Y		Total Sulfur Content $\leq$	BAAQMD	P/Q	Sulfur
Sulfur	Condition			1300 ppmv (dry)	Condition		Analysis of
Content in	# 8366,				# 8366,		landfill gas
Landfill	Part 12				Part 12		only
Gas							
$H_2S$	BAAQMD	N		Property Line ground level	None	N	NA
	9-2-301			limits $\leq 0.06$ ppm			
				Averaged over 3 minutes			
				and $\leq 0.03$ ppm			
				Averaged over 60 minutes			
NOx	BAAQMD	Y		$\leq 0.06$ lb/MMBTU	BAAQMD	P/A	Annual
	Condition			(calculated as NO <sub>2</sub> )	Condition		Source Test
	#8366, Part				#8366, Part		
	8				10		
CO	BAAQMD	Y		≤ 0.3 lb/MMBTU	BAAQMD	P/A	Annual
	Condition				Condition		Source Test
	#8366, Part				#8366, Part		
	9				10		
Amount	BAAQMD	Y		≤ 2628 tons/day and	BAAQMD	P/D	Records
of Waste	Condition			$\leq$ 19,271,000 yd <sup>3</sup>	Condition #		
Accepted	# 8366,				8366,		
	Part 1				Part 3		
Flare Heat	BAAQMD	Y		Input to Flare:	BAAQMD	P/D,M	Record
Input	Condition			≤ 1,800 MMBTU/hr,	Condition		Calculated
	# 8366,			≤ 657,000 MMBTU/yr	# 8366,		Heat Input to
	Part 11			,	Part 11		the Flare

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-5: WOODWASTE STOCKPILES

_			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD			Ringelmann No. 1 for	BAAQMD	P/E	Observation
	Regulation			3 minutes in any hour	Condition		of
	6-301 and				#15022,		Operations
	BAAQMD				Part 3		
	Condition						
	#15022,						
	Part 2						

Table VII - C
Applicable Limits and Compliance Monitoring Requirements
S-9: PORTABLE DIESEL ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-303	Y		Ringelmann No. 2 for 3 minutes in any hour	BAAQMD Condition #17680, Part 2	С	Observation for Visible Smoke
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	Y		Ground Level Concentrations: 0.5 ppm for 3 consecutive minutes, 0.25 ppm averaged over 60 consecutive minutes, 0.05 ppm averaged over 24 hours	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-304 and BAAQMD Condition #17680, Part 1	Y		Fuel Sulfur Limit 0.5%	BAAQMD Condition #17680, Part 1	P/M	Vendor Certificatio n

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## VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - D
Applicable Limits and Compliance Monitoring Requirements
S-10: PARTS CLEANER

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
Usage	BAAQMD	Y		150 gallons net solvent	BAAQMD	P/M	Records
	Condition			usage per 12-month period	Condition		
	#17682,				#17682,		
	Part 1				Part 2		
					BAAQMD	P/A	Records
					8-16-501.2		

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-14, S-15, S-16, S-17: SMALL DIESEL IC ENGINES

Type of	Citation of	FE Y/N	Future Effective Date	Limit	Monitoring Requiremen t Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD	Y	2400	Ringelmann No. 2 for 3	BAAQMD	C	Observation
	Regulation			minutes in any hour	Condition		for Visible
	6-303.1				#21617,		Smoke
					Part 3		
FP	BAAQMD	Y		0.15 gr/dscf	None	N	N/A
	Regulation						
	6-310						
$SO_2$	BAAQMD	Y		Ground Level	None	N	N/A
	Regulation			Concentrations:			
	9-1-301			0.5 ppm for 3 consecutive			
				minutes, 0.25 ppm averaged			
				over 60 consecutive			
				minutes, 0.05 ppm averaged			
				over 24 hours			

Table VII - E
Applicable Limits and Compliance Monitoring Requirements
S-14, S-15, S-16, S-17: SMALL DIESEL IC ENGINES

Type of Limit	Citation of	FE Y/N	Future Effective Date	Limit	Monitoring Requiremen t Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO <sub>2</sub>	BAAQMD Regulation 9-1-304 and BAAQMD Condition #21617, Part 2	Y		Fuel Sulfur Limit 0.5%	BAAQMD Condition #21617, Part 2	P/M	Vendor Certificatio n
Hours of Operation	BAAQMD Condition #21617, Part 1	Y		1,456 hours per year (each engine)	BAAQMD Condition #21617, Part 4	P/M	Records

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	<b>Emission Limit</b>	Citation	(P/C/N)	Type
Opacity	BAAQMD	Y	Upon	Ringelmann No. 1	None	N	N/A
	6-301		Start-up				
FP	BAAQMD	Y	Upon	0.15 grains/dscf	None	N	N/A
	6-310		Start-up				
TOC	BAAQMD	Y	Upon	1000 ppmv as methane	BAAQMD	P/Q	Quarterly
(Total	8-34-301.2		Start-up	(component leak limit)	8-34-501.6		Inspection
Organic					and 8-34-503		and Records
Com-							
pounds							
Plus							
Methane)							

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	<b>Emission Limit</b>	Citation	(P/C/N)	Type
Non-	BAAQMD	Y	Upon	98% removal by weight	BAAQMD	P/M, P/A	Key
Methane	8-34-301.4		Start-up	OR	8-34-412,		Emission
Organic				< 120 ppmv dry @ 3% O <sub>2</sub> ,	8-34-501.4,		Control
Com-				expressed as methane	8-34-501.11,		System
pounds					and		Operating
(NMOC)					BAAQMD		Parameter
					Condition		Records and
					#21619, Parts		Annual
					8, 9, and 10		Source Test
NMOC	40 CFR	Y		98% removal by weight	40 CFR 60.8	P/I	Initial
	60.752(b)			OR	and 60.752(b)		Source Test
	(2)(iii)(B)			< 20 ppmv dry @ 3% O <sub>2</sub> ,	(2)(iii)(B)		and Records
				expressed as hexane	and		
					60.758(b)(2)		
NMOC	BAAQMD	Y	Upon	< 120 ppmv dry @ 3% O <sub>2</sub> ,	BAAQMD	P/M, P/A	Key
	Condition		Start-up	expressed as methane	Condition		Emission
	#21619,				#21619, Parts		Control
	Part 7				8, 9, and 10		System
							Operating
							Parameter
							Records and
							Annual
							Source Test
$SO_2$	BAAQMD	Y	Upon	Property Line Ground	None	N	N/A
	9-1-301		Start-up	Level Limits:			
				$\leq$ 0.5 ppm for 3 minutes,			
				$\leq$ 0.25 ppm for 60 minutes			
				& $\leq$ 0.05 ppm for 24 hours			
$SO_2$	BAAQMD	Y		≤300 ppm (dry)	BAAQMD	P/Q	Sulfur
	Regulation				Condition		Analysis of
	9-1-302				# 8366,		landfill gas
					Part 12		as a
							surrogate for
							SO2
							monitoring

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
H <sub>2</sub> S	BAAQMD 9-2-301	N	Upon Start-up	Property Line ground level limits $\leq 0.06$ ppm Averaged over 3 minutes and $\leq 0.03$ ppm Averaged over 60 minutes	None	N	N/A
NO <sub>x</sub>	BAAQMD 9-8-301.2	Y	Upon Start-up	Fossil Fuel Gas, Lean-Burn 140 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition #21619, Part	P/A	Annual Source Test
NO <sub>x</sub>	BAAQMD 9-8-302.1	Y	Upon Start-up	Waste Fuel Gas, Lean-Burn 140 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition #21619, Part	P/A	Annual Source Test
NO <sub>x</sub>	BAAQMD Condition #21619, Part 5	Y	Upon Start-up	$\leq$ 0.6 g/bhp-hr expressed as NO <sub>2</sub> or 37 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition #21619, Part 9	P/A	Annual Source Test
СО	BAAQMD 9-8-301.3	Y	Upon Start-up	Fossil Fuel Gas: 2000 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition #21619, Part 9	P/A	Annual Source Test
СО	BAAQMD 9-8-302.3	Y	Upon Start-up	Waste Fuel Gas: 2000 ppmv dry @ 15% O <sub>2</sub>	BAAQMD Condition #21619, Part	P/A	Annual Source Test
СО	BAAQMD Condition #21619, Part 6	Y	Upon Start-up	$\leq$ 2.1 g/bhp-hr or 215 ppmv dry @ 15% $\rm O_2$	BAAQMD Condition #21619, Part 9	P/A	Annual Source Test
Heat Input	BAAQMD Condition #21619, Part 3	Y	Upon Start-up	≤ 252 MM BTU per day and ≤ 91,980 MM BTU per year (each engine)	BAAQMD Condition #21619, Parts 3 and 10	P/D	Records

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Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

T. 6	Emission	- DE	Future		Monitoring	Monitoring	3.5
Type of limit	Limit Citation	FE Y/N	Effective	Emission Limit	Requirement Citation	Frequency	Monitoring
			Date			(P/C/N)	Туре
Emission	BAAQMD	Y	Upon	240 hours/year	BAAQMD	P/D	Records
Control	8-34-113.2		Start-up		8-34-501.2		
System					and		
Shutdown					BAAQMD		
Time					Condition		
					#21619, Part		
					10a		
Emission	40 CFR	Y		$\leq 1$ hour per event	40 CFR	P/D	Records of
Control	60.755(e)				60.7(b),		occurrence
System					60.757(f)(2)		and duration
Startup					and (f)(3),		
Shutdown					and 60.758(e)		
or							
Malfunc-							
tion							
Startup	40 CFR	Y		Minimize Emissions by	40 CFR	P/E	Records (all
Shutdown	63.6(e)			Implementing SSM Plan	63.1980(a-b)		occurrences,
or Mal-							duration of
function							each,
Pro-							corrective
cedures							actions)
Key	BAAQMD	Y	Upon		BAAQMD	P/M	Key
Emission	Condition		Start-up		8-34-501.3		Emission
Control	#21619,				and 8-34-509		Control
System	Part 8				and		System
Operating					BAAQMD		Operating
Parameter					Condition		Parameter
(s)					#21619, Parts		Records
					8 and 10c		

Table VII - F
Applicable Limits and Compliance Monitoring Requirements
S-18, S-19, S-20 – IC ENGINE GENERATOR SETS

4	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Natural	BAAQMD	Y	Upon	Prohibited when flare is	BAAQMD	P/M	Records
Gas	Condition		Start-up	operating and unless it is	8-34-501.2		
Usage	#21619,			needed as supplemental	and		
	Part 2			fuel	BAAQMD		
					Condition		
					#21619, Part		
					10b		
Gas Flow	BAAQMD	Y	Upon	Vent all collected gases to	BAAQMD	C	Gas Flow
	Condition		Start-up	a properly operating	Condition		Meter
	#21619,			control system and operate	#21619, Part		
	Parts 1 & 2			control system	4		
				continuously.			
Gas Flow	BAAQMD	Y	Upon	Vent all collected gases to	BAAQMD	С	Gas Flow
	8-34-301		Start-up	a properly operating	8-34-501.10		Meter and
	and 301.1			control system and operate	and 508		Recorder
				control system			(every 15
				continuously.			minutes)

### VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

# Table VIII Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-301		
BAAQMD	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
6-303		
BAAQMD	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate; or
6-310		USEPA Method 5, Determination of Particulate Matter Emissions
		from Stationary Sources
BAAQMD	Miscellaneous Operations	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or
8-2-301		EPA Reference Method 25 or 25A
BAAQMD	Collection and Control System	EPA Reference Method 21, Determination of Volatile Organic
8-34-301.2	Leak Limitations	Compound Leaks
BAAQMD	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and
8-34-301.3		ST-14, Oxygen, Continuous Sampling; or
		EPA Reference Method 18, 25, 25A, or 25C
BAAQMD	Landfill Surface Requirements	EPA Reference Method 21, Determination of Volatile Organic
8-34-303		Compound Leaks
BAAQMD	Wellhead Gauge Pressure	APCO Approved Device
8-34-305.1		
BAAQMD	Wellhead Temperature	APCO Approved Device
8-34-305.2		
BAAQMD	Wellhead Nitrogen	EPA Reference Method 3C, Determination of Carbon Dioxide,
8-34-305.3		Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD	Wellhead Oxygen	EPA Reference Method 3C, Determination of Carbon Dioxide,
8-34-305.4		Methane, Nitrogen, and Oxygen from Stationary Sources

## VIII. Test Methods

### Table VIII Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic
8-34-412		Compound Emissions by Gas Chromatography, Method 25,
		Determination of Total Gaseous Nonmethane Organic Emissions as
		Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method 25C,
		Determination of Nonmethane Organic Compounds (NMOC) in
		MSW Landfill Gases
BAAQMD	Organic Content Limit for Small	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
8-40-116.2	Volume Exemption	8021B
BAAQMD	Limits on Uncontrolled Aeration	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
8-40-301	of Contaminated Soil	8021B; or EPA Reference Method 21
BAAQMD	Limitations on Ground Level	Manual of Procedures, Volume VI, Part 1, Ground Level
9-1-301	Concentrations (SO <sub>2</sub> )	Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide,
9-1-302	(SO <sub>2</sub> )	Continuous Sampling
BAAQMD	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of
9-1-304		Sulfur in Fuel Oil
BAAQMD	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level
9-2-301		Monitoring for Hydrogen Sulfide and Sulfur Dioxide
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic
		Compound Emissions by Gas Chromatography, Method 25,
		Determination of Total Gaseous Nonmethane Organic Emissions as
		Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method 25C,
		Determination of Nonmethane Organic Compounds (NMOC) in
		MSW Landfill Gases
40 CFR	NMOC Outlet Concentration and	EPA Reference Method 18, Measurement of Gaseous Organic
60.752	Destruction Efficiency Limits	Compound Emissions by Gas Chromatography, Method 25,
(b)(2)(iii)(B)		Determination of Total Gaseous Nonmethane Organic Emissions as
		Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method 25C,
		Determination of Nonmethane Organic Compounds (NMOC) in
		MSW Landfill Gases
40 CFR	Wellhead Pressure	APCO Approved Device
60.753(b)		

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# VIII. Test Methods

# Table VIII Test Methods

Applicable			
Requirement	Description of Requirement	Acceptable Test Methods	
40 CFR	Temperature, N <sub>2</sub> , and O <sub>2</sub>	EPA Reference Method 3C, Determination of Carbon Dioxide,	
60.753(c)	concentration in wellhead gas	Methane, Nitrogen, and Oxygen from Stationary Sources	
40 CFR	Methane Limit at Landfill	EPA Reference Method 21, Determination of Volatile Organic	
60.753(d)	Surface	Compound Leaks	
BAAQMD	Flare Combustion Temperature	APCO Approved Device	
Condition	Limit		
#8366, Part 6			
BAAQMD	Flare NOx Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,	
Condition		Continuous Sampling and ST-14, Oxygen, Continuous Sampling	
#8366, Part 8			
BAAQMD	Flare CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,	
Condition		Continuous Sampling and ST-14, Oxygen, Continuous Sampling	
#8366, Part 9			
BAAQMD	Flare Source Test	Flare Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas	
Condition		Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14,	
#8366, Part 10		Oxygen, Continuous Sampling; and Manual of Procedures,	
		Volume IV, ST-7, Organic Compounds or EPA Reference Methods	
		18, 25, 25A, or 25C;	
DAAOMD	II (I (I' '(C E)	Flare Inlet: EPA Reference Method 3C	
BAAQMD	Heat Input Limit for Flare	APCO approved calculation procedure as described in BAAQMD	
Condition		Condition #8366, Part11.	
#8366, Part 11			
BAAQMD	Limit for Total Reduced Sulfur	Draeger Tube: used in accordance with manufacturer's	
Condition	Compounds in Landfill Gas	recommended procedures.	
#8366, Part 12			
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions	
Condition			
#8366, Part 15			
BAAQMD	Low VOC Soils for Landfill	BAAQMD 8-40-601 and EPA Reference Methods 8015B and	
Condition	Cover	8021B; and EPA Reference Method 21	
#8366, Part 17			
BAAQMD	Acceptance Criteria for VOC	EPA Reference Methods 8015B, 8021B, or any method determined	
Condition	Contaminated Soil	to be equivalent by the US EPA and approved by the APCO	
#8366, Part 18			

Revision date: August 16, 2006

# VIII. Test Methods

# Table VIII Test Methods

Applicable			
Requirement	Description of Requirement	Acceptable Test Methods	
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions	
Condition			
#15022, Part 2			
BAAQMD	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of	
Condition		Sulfur in Fuel Oil	
#17680, Part 1			
BAAQMD	Fuel Sulfur Content	Manual of Procedures, Volume III, Method 10, Determination of	
Condition		Sulfur in Fuel Oil	
#21617, Part 2			
BAAQMD	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation	
Condition		procedure described in BAAQMD Condition # 18696, Part 3	
#21619, Part 3			
BAAQMD	IC Engine NOx Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,	
Condition		Continuous Sampling and ST-14, Oxygen, Continuous Sampling	
#21619, Part 5			
BAAQMD	IC Engine CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,	
Condition		Continuous Sampling and ST-14, Oxygen, Continuous Sampling	
#21619, Part 6			
BAAQMD	IC Engine NMOC Limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds	
Condition		and ST-14, Oxygen, Continuous Sampling; or	
#21619, Part 7		EPA Reference Method 18, 25, 25A, or 25C	
BAAQMD	Key Emission Control System	APCO Approved Devices and Location	
Condition	Operating Parameter(s)		
#21619, Part 8			

Revision date: August 16, 2006

# IX. PERMIT SHIELD

# A. SUBSUMED REQUIREMENTS

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a "hybrid" monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

Table IX-A S-1 ACTIVE LANDFILL

Subsumed Requirement		Streamlined	
Citation	Title or Description	Requirements	Title or Description
8-2-601	<b>Determination of Compliance</b>	8-40-604	Measurement of Organic Concentration
	(for organic compound		(to classify soil as "contaminated" or
	emissions as total carbon)		"not contaminated")

The Regulation 8, Rule 2 total carbon test procedure is subsumed by the Regulation 8, Rule 40 VOC test procedure for the Active Landfill (S-1) because testing performed pursuant to Regulation 8-40-604 will rule out the need to test in accordance with Regulation 8-2-601.

Regulation 8, Rule 2 "Miscellaneous Operations" is only applicable to sources of precursor organic compounds that are not otherwise limited by Regulation 8 or Regulation 10 rules. In the case of the Landfill S-1, Regulation 8, Rule 2 would apply only to cover soil that contains some VOC, but is not defined as "contaminated soil" by Regulation 8-40-205. Soil which has an organic content exceeding 50 ppmw or that registers an organic concentration greater than 50 ppmv (expressed as methane, C1) is subject to Regulation 8, Rule 40.

Regulation 8-2-301 limits organic compound emissions (expressed as total carbon) from an operation to 15 pounds per day, if the emission from the operation has an organic compound concentration greater than 300 ppmv (expressed as total carbon, dry basis). Since soil found not to be contaminated using the procedures of

# IX. Permit Shield

Regulation 8-40-604 will have a surface VOC concentration of less than 50 ppmv (expressed as methane, C1) it can reasonably be assumed that the concentration is also less than 300 ppmv (total carbon, dry basis) as determined by the procedures of Regulation 8-2-601. Since the operation complies with the 300 ppmv limit, it complies with Regulation 8-2-301.

In summary, measurements conducted under Regulation 8-40-604 that show surface VOC concentrations less than 50 ppmv (expressed as methane, C1) are conclusive to demonstrate compliance with Regulation 8-2-301.

Revision date: August, 2006

# X. REVISION HISTORY

Title V Permit Issuance (Application #17350):

**November 28, 2001** 

# **Administrative Permit Amendment (no application):**

June 5, 2003

• Deletion of outdated SIP Requirements

# Reopening (Applications #3515 and #8916):

**November 1, 2004** 

Revision date: August 16, 2006

- Correct contact information on the title page.
- Update standard language in Sections I, III, and VIII.
- Correct regulatory references and amendment dates and delete outdated SIP requirements in Section I, Tables III, IV-A, IV-D, VII-A, VII-D, and VIII, and Condition # 8366, Parts 8, 16, and 17.
- Correct collection system description in Table II-A and Condition # 8366, Part 2 (update number of collection wells).
- Expand the description of A-2 in Table II-B and delete references to obsolete limits.
- Add several recently identified generally applicable regulations to Table III. Move Regulation 8-40-116 and 117 from Tables IV-A and VII-A to Table III.
- Add several applicable requirements that were missing from Tables IV-A and VII-A including Regulations 6-310 and 8-34-501.3, and 40 CFR 60.752(b)(2)(iii)(B), 60.756(b)(1), and 60.758(b)(2)(i-ii) for the flare and Regulations 8-34-304.4 and 8-34-408.2 for the landfill.
- Add MSW Landfill NESHAP requirements to Tables IV-A and VII-A.
- Revise Condition # 8366 and Table IV-A by adding Part 17. This part requires semi-annual reports pursuant to the above NESHAP requirements and allows these reports to be combined with the Title V semi-annual monitoring reports.
- Revise Condition # 8336, Part 6 for consistency with MFR permit revision procedures in Regulation 2, Rule 6.
- Revise Condition # 8336, Part 8 to allow 60 days for submitting source test results instead of 45.
- Correct an applicable requirement in Tables IV-C, VII-C, and VIII and the associated basis for Condition # 17860, Part 2. The S-9 Portable Diesel Engine is subject to Regulation 6-303 and not 6-301, because the engine displacement is less than 1500 in<sup>3</sup>.

# X. Revision History

- Reword the condition bases for several parts in Condition #8366, #15022, and #17860 and in Tables IV-A, IV-B, and IV-C.
- In Table VIII, add an alternative test method for BAAQMD Regulation 6-310, Particulate Weight Limitation; add missing test method references for Condition # 8366, Part 8; and correct an erroneous reference for Condition # 8366, Part 15.
- Correct and update Section X Revision History.
- Add and correct several terms in the Section XI Glossary.

# **Minor Permit Revision (Application #9790):**

- Replace existing Landfill Gas Flare A-2 with new Landfill Gas Flare A-3.
- Remove Custom Schedule of Compliance previously added to accommodate the use of a temporary landfill gas flare.

# **Minor Permit Revision (Application #9222):**

- Added existing Diesel IC Engines S-14, S-15, S-16, and S-17 to Title V permit.
- Added proposed Landfill Gas Fired IC Engine Generator Sets S-18, S-19, and S-20.
- Added tables and permit conditions to reflect the additions of permitted and proposed equipment.
- Updated Table VIII to include "Test Methods" for new equipment.
- Modified standard permit text to say that SIP standards are now found on EPA's
  website and are not included as part of the permit. Part XII. "Applicable State
  Implementation Plan" was removed from the permit

# **Significant Permit Revision (Application #9907):**

August 16, 2006

- Updated permit content to the current District standard.
- Replaced Permit Condition #8366, part 17 with a condition that does not require a determination of compliance with a 15 lb/day VOC limit.
- Added a Permit Shield that subsumes the monitoring requirements of Regulation 8-2 with those of Regulation 8-40.

Facility Name: TriCities Waste Management

Permit for Facility #: A2246

# XI. GLOSSARY

### **ACT**

Federal Clean Air Act

#### **APCO**

Air Pollution Control Officer: Head of Bay Area Air Quality Management District

### **ARB**

Air Resources Board (same as CARB)

# **BAAQMD**

Bay Area Air Quality Management District

#### **BACT**

Best Available Control Technology

#### **BARCT**

Best Available Retrofit Control Technology

### **Basis**

The underlying authority that allows the District to impose requirements.

#### CAA

The federal Clean Air Act

### **CAAQS**

California Ambient Air Quality Standards

### **CAPCOA**

California Air Pollution Control Officers Association

### **CARB**

California Air Resources Board (same as ARB)

### **CEOA**

California Environmental Quality Act

### **CEM**

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

# **CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

# XI. GLOSSARY

### CH4 or CH<sub>4</sub>

Methane

#### CO

Carbon Monoxide

### CO2 or CO2

Carbon Dioxide

#### CT

Combustion Zone Temperature

# **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

#### **District**

The Bay Area Air Quality Management District

#### E 6

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example,  $4.53 \to 6$  equals  $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$ . Scientific notation is used to express large or small numbers without writing out long strings of zeros.

#### EG

**Emission Guidelines** 

# EO

**Executive Order** 

### **EPA**

The federal Environmental Protection Agency.

#### Excluded

Not subject to any District regulations.

### Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60, (NSPS), Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

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Revision date: August, 2006

# XI. GLOSSARY

# FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

### FR

Federal Register

#### GDF

Gasoline Dispensing Facility

# **GLM**

**Ground Level Monitor** 

# H2S or H2S

Hydrogen Sulfide

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

### Hg

Mercury

# **HHV**

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

### **LFG**

Landfill gas

### LHV

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60 °F.

# **Major Facility**

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

### MAX or Max.

Maximum

# XI. GLOSSARY

# **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

### MIN or Min.

Minimum

### **MOP**

The District's Manual of Procedures.

### **MSDS**

Material Safety Data Sheet

# **MSW**

Municipal solid waste

### MW

Molecular weight

# N2 or N<sub>2</sub>

Nitrogen

# NA

Not Applicable

### **NAAQS**

National Ambient Air Quality Standards

### **NESHAPS**

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

# **NMHC**

Non-methane Hydrocarbons (Same as NMOC)

#### **NMOC**

Non-methane Organic Compounds (Same as NMHC)

# NOx or NO<sub>x</sub>

Oxides of nitrogen.

# **NSPS**

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

# **NSR**

# XI. GLOSSARY

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

# O2 or O2

Oxygen

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NOx, PM10, and SO2.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

#### **POC**

**Precursor Organic Compounds** 

### PM

Particulate Matter

# PM10 or PM<sub>10</sub>

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

# PV or P/V Valve

Pressure/Vacuum Valve

# RMP

Risk Management Plan

# $\mathbf{S}$

Sulfur

# XI. GLOSSARY

# **SIP**

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

# SO2 or SO<sub>2</sub>

Sulfur dioxide

#### SSM

Startup, Shutdown, or Malfunction

### **SSM Plan**

A plan, which states the procedures that will be followed during a startup, shutdown, or malfunction, that is prepared in accordance with the general NESHAP provisions (40 CFR Part 63, Subpart A) and maintained on site at the facility.

# **TAC**

Toxic Air Contaminant (as identified by CARB)

#### THC

Total Hydrocarbons (NMHC + Methane)

### Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

### TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

# **TPH**

**Total Petroleum Hydrocarbons** 

# **TRMP**

Toxic Risk Management Policy

# **TRS**

Total Reduced Sulfur

# **TSP**

Total Suspended Particulate

# VOC

Volatile Organic Compounds

# XI. GLOSSARY

# **VMT**

Vehicle Miles Traveled

# **Symbols:**

# **Units of Measure:**

bhp brake-horsepower btu **British Thermal Unit** =**BTU** = **British Thermal Unit** °C degrees Centigrade cfm = cubic feet per minute dscf dry standard cubic feet ٥F degrees Fahrenheit  $ft^3$ = cubic feet

g = grams gal = gallon

gpm = gallons per minute

gr = grains (7000 grains = 1 pound)

hp = horsepower

hour hr =inches in kilograms kg = pound lb =lbmol pound-mole M = thousand  $m^2$ square meter  $m^3$ cubic meters =

Mg = mega-grams (1000 kg)

min = minute
mm = millimeter
MM = million
MMBTU = million BTU
MMcf = million cubic feet

mm Hg = millimeters of mercury (pressure)

MW = megawatts ppb = parts per billion

ppbv = parts per billion, by volume

# **XI. GLOSSARY**

parts per million ppm ppmv parts per million, by volume parts per million, by weight ppmw = pounds per square inch, absolute psia pounds per square inch, gauge psig = scf standard cubic feet = scfm standard cubic feet per minute = standard dry cubic feet sdcf sdcfm standard dry cubic feet per minute = 1 therm = 100,000 BTUtherms = yard yd  $yd^3$ cubic yards year yr