Bay Area Air Quality Management District

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

Proposed

MAJOR FACILITY REVIEW PERMIT

Issued To:
Kirby Canyon Landfill
Facility #A1812

Facility Address:

910 Coyote Creek Golf Drive San Jose, CA 95198

Mailing Address:

P.O. Box 1870 Morgan Hill, CA 95038

Responsible Official

Joe Morse, Site Manager (408) 779-2206

Facility ContactJoe Morse

Type of Facility: Landfill Primary SIC: 4953

Product: Non-hazardous Solid Waste

BAAQMD Permit Division Contact: Ted Hull, Air Quality Engineer II

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

William C. Norton, Executive Officer/Air Pollution Control Officer Date

TABLE OF CONTENTS

I.	STANDARD CONDITIONS	3
II.	EQUIPMENT	7
III.	GENERALLY APPLICABLE REQUIREMENTS	8
IV.	SOURCE-SPECIFIC APPLICABLE REQUIREMENTS	10
V.	SCHEDULE OF COMPLIANCE	25
VI.	PERMIT CONDITIONS	26
VII.	APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS	44
III.	TEST METHODS	55
IX.	PERMIT SHIELD	58
X.	GLOSSARY	60
XI.	APPLICABLE STATE IMPLEMENTATION PLAN	67

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 8/1/01):

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 5/17/00);

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 5/17/00);

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 5/2/01).

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

- 1. This Major Facility Review Permit was issued on [] and expires on [when issued, enter 5th anniversary of issue date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than [when issued, enter date 6 months prior to permit expiration date] and no earlier than [when issued, enter date 12 months prior to expiration date]. If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after [when issued, enter 5th anniversary of issue date]. (Regulation 2-6-307, 404.2, & 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)

I. Standard Conditions

- 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)
- 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 that 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 or the potential to emit 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,

I. Standard Conditions

Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment that 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)

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 [date of issuance] to [six months later].
The report shall be submitted by [one month after end of reporting period]. Subsequent
reports shall be for the following periods: [1st through 30th or 31st] and
[1st through 30th or 31st], 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 ______ 1st to ______ 30th or 31st. The certification shall be submitted by ______ 30th or 31st of each year. The certification must list each applicable requirement, the compliance status, whether

I. Standard Conditions

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 shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division USEPA, Region IX 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	Kirby Canyon Sanitary	Type of waste accepted		Max. Design Capacity =
	Landfill, Active Solid Waste	are Municipal Solid		36.4 million cubic yards
	Disposal Site with Active	Wasted (MSW),		refuse (27.8 million cubic
	Landfill Gas Collection System	Commercial, Industrial,		meters)
		and Construction		Max. Acceptance Rate =
				2600 tons/day
				Est. Max. Cumulative
				Waste In Place = 19.84
				million tons refuse
				Gas Collection Wells =
				33
S-2	IC Engine Generator Set,	Deutz Genset	TBG 620	1,877 HP,
	Landfill Gas Fired		V16K	13.16 MMBTU/hr

Table II B – Abatement Devices

A //	D	Source(s)	Applicable	Operating	Limit or
A- #	Description	Controlled	Requirement	Parameters	Efficiency
A-10	Landfill Gas Flare	S-1	BAAQMD	Minimum combustion	98% destruc-
			8-34-301.3,	zone temperature of	tion of
			see also	1432 °F, see also	NMOC or
			Table IV-A	Table VII-A	< 30 ppmv of
					NMOC, as
					CH ₄ , at 3%
					O ₂ , dry

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.

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 included at the end of this permit.

NOTE:

There are differences between the current BAAQMD rules and the versions 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

Applicable	Regulation Title or	Federally 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)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable
Requirement	Description of Requirement	(Y/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
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (2/18/98)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02)	N
SIP Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (12/23/97)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (10/16/02)	N
SIP Regulation 8, Rule 16	Organic Compounds - Solvent Cleaning Operations (12/9/94)	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)	Y
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)	Y
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants – Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	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
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (9/2/81)	Y
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 M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (6/19/95)	Y

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 included at the end of this permit. All other text may be found in the regulations themselves.

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 1	General Provisions and Definitions (5/2/01)		
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	
1-523.5	Maintenance and calibration	N	
SIP			
Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y^1	
1-523.3	Reports of Violations	Y^1	
1-523.5	Maintenance and calibration	Y^1	

IV. Source Specific Applicable Requirements

		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 A-10 Flare only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Organic Compounds – Miscellaneous Operations (3/22/95)		
Regulation 8,			
Rule 2			
8-2-301	Miscellaneous Operations (applies to low VOC soil handling and	Y	
	disposal activities only)		
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	Y	
	Design Plan		
8-34-117.3	Meet 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	

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-118.1	Construction Plan	Y	
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	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	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares	Y	
8-34-301.4	Limits for Other Emission Control Systems	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	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	

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-414.1	Records of Excesses	Y	
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	

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
8-34-507	Continuous Temperature Monitor and Recorded	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
BAAQMD	Organic Compounds - Aeration of Contaminated Soil and Removal		
Regulation 8,	of 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	
8-40-116	Exemption, Small Volume	Y	
8-40-116.1	Volume does not exceed 1 cubic yard	Y	
8-40-116.2	Volume does not exceed 8 cubic yards, organic content does not	Y	
	exceed 500 ppmw, may be used only once per quarter		
8-40-117	Exemption, Accidental Spills	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 A-10 Flare	Y	
	only)		
9-1-302	General Emission Limitations (applies to A-10 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	Standards of Performance for New Stationary Sources – General		
Part 60,	Provisions (5/4/98)		
Subpart A			
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other	Y	
	Correspondence to the Administrator		

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
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)	Control devices operated using 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 operational 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)	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	Standards of Performance for New Stationary Sources – Emission		
Part 60,	Guidelines and Compliance Times for Municipal Solid Waste		
Subpart Cc	Landfills (2/24/99)		
60.36c(a)	Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions ≥ 50 MG/year	Y	
40 CFR Part	Approval and Promulgation of State Plans for Designated Facilities		
62	and Pollutants (9/20/01)		
62.1115	Identification of Sources	Y	
40 CFR Part	National Emission Standards for Hazardous Air Pollutants:		
63, Subpart	General Provisions (3/16/94)		
A			
63.4	Prohibited activities and circumvention	Y	1/16/04
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	1/16/04
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	1/16/04
63.6(f)	Compliance with non-opacity emission standards	Y	1/16/04

IV. Source Specific Applicable Requirements

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
63.10(b)(2)	Records for startup, shutdown, malfunction, and maintenance	Y	1/16/04
(i-v)			
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	1/16/04
40 CFR Part	National Emission Standards for Hazardous Air Pollutants:		
63, Subpart	Municipal 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	1/16/04
63.1955	What requirements must I meet?	Y	1/16/04
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is	Y	1/16/04
	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	1/16/04
	control systems plus all SSM requirements and 6 month compliance		
	reporting requirements		
63.1960	How is compliance determined?	Y	1/16/04
63.1965	What is a deviation?	Y	1/16/04
63.1975	How do I calculate the 3-hour block average used to demonstrate	Y	1/16/04
	compliance?		
63.1980	What records and reports must I keep and submit?	Y	1/16/04
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR	Y	1/16/04
	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	1/16/04
	Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM		
	Plans and Reports		
BAAQMD			
Condition			
#1437			
Part 1	Design capacity and waste acceptance rate limits (Regulation 2-1-301)	Y	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 2	Handling procedures for soils containing VOCs (Regulation 8-40-301, 8-40-304, and 8-40-305)	Y	
Part 3	Low VOC soils for landfill cover (Regulations -8-40-205 and 8-40-604)	Y	
Part 4	Particulate emission control measures (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 5	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	
Part 6	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-304, and 8-34-305)	Y	
Part 7	Landfill gas collection system operating requirements (Regulation 8-34-301.1)	Y	
Part 8	Flare heat input limits (Regulation 2-1-301)	Y	
Part 9	Flare temperature limit (Toxic Risk Management Policy and Regulation 8-34-301.3)	Y	
Part 10	Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302)	Y	
Part 11	Annual source test (Regulations 8-34-301.3 and 8-34-412)	Y	
Part 12	Annual landfill gas characterization test (Toxic Risk Management Policy and Regulation 8-34-412)	Y	
Part 13	Landfill gas condensate injection rate (Toxic Risk Management Policy)	N	
Part 14	Recordkeeping requirements (Cumulative Increase, 2-1-301, 2-6-501, 6-301, 6-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)	Y	
Part 15	Reporting periods and due dates for the Regulation 8, Rule 34 annual report (Regulation 8-34-411 and 40 CFR Part 63.1980(a))	Y	

^{1.} 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-2 - IC ENGINE GENERATOR SET

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
BAAQMD			
Regulation 1	General Provisions and Definitions (5/2/01)		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	upon start-
			up of S-2
1-523.1	Parametric monitor periods of inoperation	Y	upon start-
			up of S-2
1-523.2	Limit on periods of inoperation	Y	upon start-
			up of S-2
1-523.3	Reports of Violations	N	upon start-
			up of S-2
1-523.4	Records	Y	upon start-
			up of S-2
1-523.5	Maintenance and calibration	N	upon start-
			up of S-2
SIP			
Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y^1	upon start-
			up of S-2
1-523.3	Reports of Violations	Y^1	upon start-
			up of S-2
1-523.5	Maintenance and calibration	Y ¹	upon start-
			up of S-2
BAAQMD			Î
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	upon start-
			up of S-2
6-305	Visible Particles	Y	upon start-
			up of S-2
6-310	Particle Weight Limitation	Y	upon start-
		-	up of S-2
6-401	Appearance of Emissions	Y	upon start-
5 101		1	up of S-2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 34	Organic Compounds – Solid Waste Disposal Sites (10/6/99)		Dute
8-34-113	Limited Exemption, Inspection and Maintenance	Y	upon start- up of S-2
8-34-113.1	Emission Minimization Requirement	Y	upon start- up of S-2
8-34-113.2	Shutdown Time Limitation	Y	upon start- up of S-2
8-34-113.3	Recordkeeping Requirement	Y	upon start- up of S-2
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	upon start- up of S-2
8-34-301.1	Continuous Operation	Y	upon start- up of S-2
8-34-301.2	Collection and Control Systems Leak Limitations	Y	upon start- up of S-2
8-34-301.4	Limits for Other Emission Control Systems	Y	upon start- up of S-2
8-34-411	Annual Report	Y	upon start- up of S-2
8-34-412	Compliance Demonstration Tests	Y	upon start- up of S-2
8-34-413	Performance Test Report	Y	upon start- up of S-2
8-34-501	Operating Records	Y	upon start- up of S-2
8-34-501.2	Emission Control System Downtime	Y	upon start- up of S-2
8-34-501.4	Testing	Y	upon start- up of S-2
8-34-501.6	Leak Discovery and Repair Records	Y	upon start- up of S-2

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	upon start- up of S-2
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	upon start- up of S-2
8-34-501.12	Records Retention for 5 Years	Y	upon start- up of S-2
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	upon start- up of S-2
8-34-504	Portable Hydrocarbon Detector	Y	upon start- up of S-2
8-34-509	Key Emission Control System Operating Parameters	Y	upon start- up of S-2
8-34-508	Gas Flow Meter	Y	upon start- up of S-2
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
9-1-301	Limitations on Ground Level Concentrations	Y	upon start- up of S-2
9-1-302	General Emission Limitations	Y	upon start- up of S-2
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide	N	upon start- up of S-2
BAAQMD	Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon		
Regulation 9 Rule 8	Monoxide from Stationary Internal Combustion Engines (1/20/93)		
9-8-301	Emission Limits - Fossil Derived Fuel Gas	Y	upon start- up of S-2
9-8-301.2	Lean-Burn Engines: NOx Emission Limit	Y	upon start- up of S-2

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
9-8-301.3	CO Emission Limit	Y	upon start-
			up of S-2
9-8-302	Emission Limits – Waste Derived Fuel Gas	Y	upon start-
			up of S-2
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	Y	upon start-
			up of S-2
9-8-302.3	CO Emission Limit	Y	upon start-
			up of S-2
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	upon start-
	Correspondence to the Administrator		up of S-2
60.7	Notification and Recordkeeping	Y	upon start-
			up of S-2
60.8	Performance Tests	Y	upon start-
			up of S-2
60.11	Compliance with Standards and Maintenance Requirements	Y	upon start-
			up of S-2
60.11(a)	Compliance determined by performance tests	Y	upon start-
			up of S-2
60.11(d)	Good air pollution control practice	Y	upon start-
			up of S-2
60.12	Circumvention	Y	upon start-
			up of S-2
60.13	Monitoring Requirements	Y	upon start-
			up of S-2
60.13(a)	Applies to all continuous monitoring systems	Y	upon start-
<0.424°			up of S-2
60.13(b)	Monitors shall be installed and operation before Performance Tests	Y	upon start-
			up of S-2
60.13(e)	Continuous monitors shall operate continuously	Y	upon start-
			up of S-2

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
60.13(f)	Monitors shall be installed in proper locations	Y	upon start-
			up of S-2
60.13(g)	Requires multiple monitors for multiple stacks	Y	upon start-
			up of S-2
60.14	Modification	Y	upon start-
			up of S-2
60.15	Reconstruction	Y	upon start-
			up of S-2
60.19	General Notification and Reporting Requirements	Y	upon start-
			up of S-2
40 CFR	Standards of Performance for New Stationary Sources – Emission		
Part 60,	Guidelines and Compliance Times for Municipal Solid Waste		
Subpart Cc	Landfills (2/24/99)		
60.36c(a)	Collection and Control Systems in Compliance by 30 months after	Y	upon start-
	Initial NMOC Emission Rate Report Shows NMOC Emissions ≥ 50		up of S-2
	MG/year		
40 CFR Part	Approval and Promulgation of State Plans for Designated Facilities		
62	and Pollutants (9/20/01)		
62.1115	Identification of Sources	Y	upon start-
			up of S-2
40 CFR Part	National Emission Standards for Hazardous Air Pollutants:		
63, Subpart	General Provisions (3/16/94)		
A			
63.4	Prohibited activities and circumvention	Y	1/16/04
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	1/16/04
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	1/16/04
63.6(f)	Compliance with non-opacity emission standards	Y	1/16/04
63.10(b)(2)	Records for startup, shutdown, malfunction, and maintenance	Y	1/16/04
(i-v)			
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	1/16/04
40 CFR Part	National Emission Standards for Hazardous Air Pollutants:		
63, Subpart	Municipal Solid Waste Landfills (1/16/03)		
AAAA			
63.1945	When do I have to comply with this subpart?	Y	

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1945(b)	Compliance date for existing affected landfills	Y	1/16/04
63.1955	What requirements must I meet?	Y	1/16/04
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	1/16/04
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	1/16/04
63.1960	How is compliance determined?	Y	1/16/04
63.1965	What is a deviation?	Y	1/16/04
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	1/16/04
63.1980	What records and reports must I keep and submit?	Y	1/16/04
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR 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	Y	1/16/04
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	1/16/04
BAAQMD Condition #18696			
Part 1	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	upon start- up of S-2
Part 2	Fuel requirements (Cumulative Increase)	Y	upon start- up of S-2
Part 3	Engine heat input limits (Regulation 2-1-301)	Y	upon start- up of S-2
Part 4	Landfill gas flow meter and automatic control valve (Regulations 8-34-301, 8-34-508)	Y	upon start- up of S-2
Part 5	NOx emission limit (BACT, Cumulative Increase)	Y	upon start- up of S-2

IV. Source Specific Applicable Requirements

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
Part 6	CO emission limit (BACT, Cumulative Increase)	Y	upon start- up of S-2
Part 7	NMOC emission limit (Cumulative Increase, Regulation 8-34-301.4)	Y	upon start- up of S-2
Part 8	Key emission control system operating parameters (Regulations 8-34-301.4 and 8-34-509)	Y	upon start- up of S-2
Part 9	Source test requirements (BACT, Cumulative Increase, Regulations 8-34-301.4, 8-34-412, 9-8-302.1, 9-8-302.3)	Y	upon start- up of S-2
Part 10	Recordkeeping requirements (BACT, Cumulative Increase, Regulation 8-34-501)	Y	upon start- up of S-2

^{1.} 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 #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

For S-1, Active Landfill With Gas Collection System

- 1. Landfill gas extraction wells shall not be disconnected or removed from operation nor shall isolation or adjustment valves be closed without prior written authorization from the District unless such activities are carried out in accordance with the District Compliance Assistance Advisory dated March 10, 1994 entitled "Regulation 8, Rule 34 Solid Waste Disposal Sites Well Raising Activities" or District Regulation 8, Rule 34.
- 2. A temperature monitor equipped with a readout display and a continuous recorder shall be installed and maintained on A-10 Flare. One or more thermocouples shall be placed in or near the primary combustion zone of the flare in a manner that accurately indicates the flare combustion temperature in degrees Fahrenheit at all times. Continuous recorder temperature charts shall be retained on site for a minimum of two years from the date of record and made available to District staff upon request.
- 3. The combustion temperature of A-10 Flare shall be maintained at a minimum of 1400 degrees Fahrenheit. A-10 Flare shall have a minimum calculated residence time of 0.6 seconds.
- 4. A flowmeter shall be installed to measure the landfill gas flow rate at the inlet to A-10 Flare. The flowmeter shall be maintained in good operating condition in accordance with the manufacturer's and/or District recommendations.
- 5. The specifications and locations of the inlet flow meter, source testing ports, temperature monitor and its associated continuous recorder and thermocouple(s) will be subject to the approval to the District Source Test Section. These specifications shall be submitted to the District's Permit Services Division prior to the construction of A-1 Flare.
- 6. A-10 Flare shall be equipped with local and remote alarms including, but not limited to, alarms for low temperature and flame failure.

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

- 7. A-10 Flare shall achieve a minimum total organic compound and methane destruction efficiency of 98% by weight.
- 8. Within 60 days of equipment start-up, the owner/operator of S-1 and A-1 shall perform a source test of S-1 and A-1 to determine the NOx, CO, methane, and total non-methane hydrocarbon (NMHC) emissions and A-10 Flare destruction efficiency. The A-10 Flare destruction efficiency test shall be conducted when the maximum landfill gas condensate injection rate is in effect. NOx emissions shall be determined when condensate is not being injected into the A-10 Flare. The owner/operator shall notify the District Permit Services Division at least 10 days prior to the planned source test date. The source test protocol shall be subject to the prior approval of the District Source Test Section.
- 9. Within 60 days of equipment start-up, the owner/operator of S-1 and A-10 shall conduct an analysis of the landfill gas to determine the concentration of CH4, NMHC, CO, CO2, O2, and N2. In addition, a full characterization of the landfill gas shall be conducted by gas chromatography. The results of the gas characterization shall be submitted to the District within 45 days of receipt of the test results. The gas sample shall be drawn from the main landfill gas collection header and shall be collected after the system has been balanced and collection lines conditioned with landfill gas. Thereafter, the landfill gas characterization shall be performed annually and the results shall be submitted to the District Permit Services Division within 45 days of receipt of the test results.
- 10. When sufficient landfill gas condensate has been collected, the owner/operator of S-1 shall conduct an analysis of the landfill gas condensate. The test results shall be submitted to the District Permit Services Division within 45 days of receipt of the test results.
- 11. The landfill gas characterization required in condition #9 and the landfill gas condensate analysis required in condition #10 shall include the following compounds:

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System; For: A-10, Landfill Gas Flare 1,1,1-Trichloroethane (methyl chloroform) 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane (ethylidene dichloride) 1,1-Dichloroethene (vinylidene chloride) 1,2-Dichloroethane (ethylene dichloride) 1,2-Dichloropropane (propylene dichloride) Acetone -----Acrylonitrile ----Benzene -----Bromodichloromethane Carbon disulfide — Carbon tetrachloride Carbonyl sulfide Chlorobenzene Chlorodifluoromethane Chloroethane (ethyl chloride) Chloroform ----Chloromethane Dichloromethane (methylene chloride) — Dimethyl sulfide Ethyl mercaptan Ethylbenzene ----Fluorotrichloromethane -----Hexane Hydrogen sulfide Methyl ethyl ketone Methyl isobutyl ketone Methyl mercaptan Perchloroethylene (tetrachloroethene) Trichloroethene t-1,2-dichloroethene Vinyl chloride Xylene

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

- The owner/operator of S-1 and A-10 may submit a written petition to the District for the removal of compounds that show negligible concentrations from the annual gas characterization requirement list.
- 12. The landfill gas condensate injection rate shall not exceed 5 gallons per minute. Total annual landfill gas condensate injection throughput shall not exceed 375,000 gallons during any consecutive twelve month period. The owner/operator of S-1 and A-10 may submit a written petition to the District to increase the landfill gas condensate injection rate subject to current District-approved source test results. The owner/operator of S-1 and A-10 shall maintain records of landfill gas condensate injection throughput and the duration of the injection on a daily basis in a District approved log.
- 13. The owner/operator of S-1 shall inform the District Permit Services Division in writing prior to the installation of any landfill gas extraction wells as described on the Authority to Construct.
- 1. The Permit Holder shall comply with the following waste acceptance and disposal limits and shall obtain the appropriate New Source Review permit, if one of the following limits is exceeded:
 - Except for temporary emergency situations approved by the Local
 Enforcement Agency, the total waste accepted and placed at the landfill shall not exceed 2600 tons in any day. (Basis: Regulation 2-1-301)
 - b. The total cumulative amount of all waste placed in the landfill shall not exceed 19.84 million tons. Exceedance of the cumulative tonnage limit is not a violation of the permit and does not trigger the requirement to obtain a New Source review permit, if the operator can, within 30 days of the date of discovery of the exceedance, provide documentation to the District demonstrating, in accordance with BAAQMD Regulation 2-1-234.3, that the limit should be higher. (Basis: Regulation 2-1-234.3)
 - c. The maximum design capacity of the landfill (total volume of all wastes placed in the landfill) shall not exceed 36.40 million cubic yards. (Basis: Regulation 2-1-301)

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

- 2. Handling Procedures for Soil Containing Volatile Organic Compounds
 - 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 3 below.
 - 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 verbal 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.

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

- 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 is no longer contaminated and shall be handled in accordance with the procedures in Part 3 instead of Part 2, subparts e.-l.
- 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.
- 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.

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

- 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 ft². 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).

i. 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.

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

- 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 ft².
- 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.
- <u>Ensure that covering of soil on the active face is completed</u>
 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.
- 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.

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

- 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, record the sampling date, test results, and the date that these 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)

3. 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:

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

- a. The soil lot number as established in part 2.m.i. (above).
- 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)

- 4. Water and/or dust suppressants shall be applied to all unpaved roadways, active soil removal, and fill areas as necessary to prevent visible particulate emissions.

 Paved roadways shall be kept sufficiently clear of dirt and debris to prevent visible particulate emissions from vehicle traffic or wind. (basis: Regulations 2-1-403, 6-301, and 6-305)
- 5. All collected landfill gas shall be vented to properly operating abatement equipment including the Landfill Gas Flare (A-10) and/or the IC Engine (S-2). Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for 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 Permit Holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described in Parts 6a-b below.

 Increasing or decreasing the number of wells or collectors, changing the length of collectors, or changing the locations of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.
 - a. 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 #2232.

Total Number of Wells and Collectors: 33

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

b. The Permit Holder has been issued an Authority to Construct for the additional landfill gas collection system components listed below. Specific well locations, depths, and lengths of associated piping are as described in detail in Permit Application #2583. After receiving a written start-up notification for any wells or collectors that have been installed, the APCO will revise the number of wells listed in Parts 6a and 6b using the administrative permit amendment procedures identified in Regulation 2-6-413.

Additional Number of Wells and Collectors: 7
(basis: Regulations 2-1-301, 8-34-301.1, 8-34-304, 8-34-305)

- 7. The landfill gas collection system described in Part 6a shall be operated continuously as defined in Regulation 8-34-219. Wells shall not be shut off, disconnected or removed from operation without written authorization from the APCO, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)
- 8. The heat input to the A-10 Landfill Gas Flare shall not exceed 912 million BTU per day and shall not exceed 332,880 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: (a) the landfill gas flow rate recorded pursuant to part 14h, (b) the average methane concentration in the landfill gas measured in most recent source test, and (c) a high heating value for methane of 1013 BTU per cubic foot at 60 degrees F. (basis: Regulation 2-1-301)

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

- 9. Effective May 1, 2003, the combustion zone temperature of the flare shall be maintained at a minimum of 1432 degrees F, averaged over any 3-hour period. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO will revise this minimum temperature limit in accordance with the administrative permit amendment procedures identified in Regulation 2-6-413 and 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 8-34-301.3 and Toxic Risk Management Policy)
- 10. Total reduced sulfur compounds in the collected landfill gas (measured as hydrogen sulfide) shall be monitored as a surrogate for monitoring sulfur dioxide in the control system's 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 (as hydrogen sulfide) 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: Regulation 9-1-302)
- 11. To demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, the Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-10). The annual source test shall determine the following:
 - a. landfill gas flow rate to the flare (dry basis);
 - b. concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), total hydrocarbons (THC), methane (CH₄), 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 THC, CH₄, NMOC, and O₂ in the flare stack gas;

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

- e. the NMOC destruction efficiency achieved by the flare; and f. the average combustion temperature in the flare during the test period. Annual source tests shall be conducted no earlier 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 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 and to the Source Test Section within 45 days of the test date. (basis: Regulations 2-1-301, 8-34-301.3, and 8-34-412)
- 12. The Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by part 11 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in part 11b, the landfill gas shall be analyzed for all the compounds listed in the most recent version of EPA's AP-42 Table 2.4-1 excluding acetone, carbon monoxide, and mercury. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 45 days of the test date. After conducting three annual landfill gas characterization tests, the Permit Holder may request to remove specific compounds from the list of compounds to be tested for if the compounds have not been detected, have no significant impact on the cancer risk determination for the site, and have no significant impact on the hazard index determination for the site. (basis: Toxic Risk Management Policy and Regulation 8-34-412)
- *13. The landfill gas condensate injection rate shall not exceed 5 gallons per minute. Total landfill gas condensate injection throughput shall not exceed 375,000 gallons during any consecutive twelve-month period. The Permit Holder for S-1 and A-10 may submit a written petition to the District to increase the landfill gas condensate injection rate subject to current District-approved source test results. (basis: Toxic Risk Management Policy)
- 14. To demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in a District approved logbook.
 - a. The total amount of municipal solid waste received at S-1 recorded on a daily basis. A summary of the daily waste acceptance records for each calendar month.

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

- b. For each area or cell that is not controlled by a landfill gas collection system, a record of the date that waste was initially placed in the area or cell. The cumulative amount of waste placed in each uncontrolled area or cell recorded on a monthly basis.
- c. If the Permit Holder plans to exclude an uncontrolled area or cell from the collection system requirement, the Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
- d. Low VOC soil screening data, pursuant to part 3.
- e. The dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. The dates, locations, and type of any dust suppressant applications. The dates and description of all paved roadway cleaning activities. All records shall be summarized monthly.
- f. The initial operation date for each new landfill gas well and collector.
- g. An accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to part 6.a. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least once a year to indicate changes in refuse boundaries and to include any newly installed wells and collectors.
- h. The operating times and the landfill gas flow rate to the A-10 Landfill Gas
 Flare recorded on a daily basis. A monthly summary of the heat input to
 A-10, pursuant to part 8 shall be calculated and recorded.
- i. Continuous records of the combustion zone temperature for the A-10

 Landfill Gas Flare during all hours of operation.
- j. Records of all test dates and test results performed to maintain compliance with parts 10, 11, and 12 above or any applicable rule or regulation.
- k. Records of landfill gas condensate injection throughput and the duration of the injection recorded daily.

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable rules or regulations.

(basis: Cumulative Increase, 2-1-301, 2-6-501, 6-301, 6-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)

VI. Permit Conditions

Condition #1437

For: S-1, Active Landfill with Landfill Gas Collection System;

For: A-10, Landfill Gas Flare

15. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments. The reporting period for the first increment of the Regulation 8-34-411 annual report that is submitted subsequent to the issuance of the MFR Permit for this site shall be from December 1, 2002 through August 31, 2003. This first increment report shall be submitted by September 30, 2003. The reporting periods and report submittal due dates for all subsequent increments of the Regulation 8-34-411 report 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. (basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

VI. Permit Conditions

Condition #18696

For: S-2, IC Engine Generator Set

- 1. All collected landfill gas shall be vented to properly operating abatement equipment including the IC Engine S-2 and/or the Landfill Gas Flare A-10. Under no circumstances shall rRaw landfill gas shall not be vented to the atmosphere-, except for This limitation does not apply to 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 or toand 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 Engine S-2 shall be fired exclusively 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-10 Flare is operating concurrently with S-2. (basis: Cumulative Increase)
- 3. The Heat Input to the IC Engine S-2 shall not exceed 316 million BTU per day and shall not exceed 115,282 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)
- 34. A District approved flow meter, to measure and record the landfill gas flow into the 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-10 Landfill Gas Flare when the engine is down. (basis: Regulation 8-34-301, Regulation 8-34-508)
- 4<u>5</u>. Emissions of Nitrogen Oxides (NO_x), calculated as NO₂, from S-2 shall not exceed either 0.6 grams of NO_x, calculated as NO₂/per bhp-hrbrake horsepower-hour or 47 ppmv of NO_x, @ 15% oxygen, dry basis. (basis: BACT, Cumulative Increase)

VI. Permit Conditions

Condition #18696

For: S-2, IC Engine Generator Set

- 56. Emissions of Carbon Monoxide (CO) from S-2 shall not exceed either 1.6 grams of CO/per bhp-hrbrake horsepower-hour or 207 ppmv of CO @ 15% oxygen, dry basis. (basis: BACT, Cumulative Increase)
- 67. Emissions of Non-Methane Organic Compounds (NMOC) from S-2 shall not exceed 20 be less than 120 ppm by volume (dry), expressed as hexane methane @ 3% oxygen. (basis: Cumulative Increase, Regulation 8-34-301.4)
- In order to demonstrate compliance with part 67, the permit holder of the IC 78. Engine S-2 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 an administrative permit amendment after the District has received the results of the initial source test. Within 105 days of start-up of the IC Engine S-2, 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. be equipped with a device to continuously monitor and record the eylinder temperature. During the initial startup period, the owner/operator of the engine shall determine the average cylinder temperature that must be maintained to meet the NMOC emission limit. Once determined, the "set point" cylinder temperature shall be maintained within a range of plus or minus 5 degrees C during all times (excluding startup) that the engine is operated. (basis: Regulation 8-34-507 Regulations 8-34-301.4 and 8-34-509)

VI. Permit Conditions

Condition #18696

For: S-2, IC Engine Generator Set

- In order to demonstrate compliance with parts #45, #56 and #67 above and 89. Regulations 8-34-301.4, 9-8-302.1 and 9-8-302.3, the owner/operator of S-2 permit holder shall conduct source testing of S-2 to determine the emissions of NO_x, CO, and POC 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 District's Manual of Procedures. The facility shall obtain prior approval from the District's-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 District 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 4512 months. (basis: BACT, Cumulative Increase, Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)
- 910. The owner/operator of the IC Engine S-2 shall maintain the following records in a District approved log:
 - a. The times and dates of all startups and shutdowns for the engine and the reason for each shutdown.
 - b. The total landfill gas and natural gas throughput to S-2 on a monthly basis.
 - c. Records of each time the average cylinder temperature was outside the established range. Records of key emission control system operating parameters on at least a monthly basis.
 - d. All source test results.
 - e. The operating times and the landfill gas flow rate to the IC Engine S-2 on a daily basis, summarized monthly.
 - f. The heat input to S-2, 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 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.

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 ACTIVE LANDFILL
A-10 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)	Type
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	#1437, Parts		
				placement	14b-c and		
					14f-g		
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	#1437, Parts		
				placement	14b-c and		
					14f-g		

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
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	#1437, Parts		
				accumulates 1,000,000 tons	14a-c and		
				of decomposable waste	14f-g		
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	C	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	BAAQMD	Y		Landfill gas collection	BAAQMD	P/D	Records of
	Condition			system shall operate	Condition		Landfill Gas
	#1437,			continuously and all	#1437, Parts		Flow Rates,
	Parts 5, 6,			collected gases shall be	14f-h		Collection
	and 7			vented to a properly			and Control
				operating control system			Systems
							Downtime,
							and
							Collection
							System
							Components
Collection	BAAQMD	Y		Less than 240 hours/year	BAAQMD	P/D	Operating
and	8-34-113.2			and less than 5 consecutive	8-34-501.1		Records
Control				days			
Systems							
Shutdown							
Time							

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Parametric Monitors	BAAQMD 1-523.2	Y		15 consecutive days/incident and 30 calendar days/12 month period	BAAQMD 1-523.4	P/D	Operating Records for All Parametric Monitors
Continuous Monitors	40 CFR 60.13(e)	Y		Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments	40 CFR 60.7(b)	P/D	Operating Records for All Continuous Monitors
Wellhead Pressure	BAAQMD 8-34-305.1	Y		< 0 psig	BAAQMD 8-34-414, 501.9 and 505.1	P/M	Monthly Inspection and Records
Temper- ature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 °C	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records
Gas Concen- trations at Wellhead	BAAQMD 8-34-305.3 or 305.4	Y		$N_2 < 20\%$ OR $O_2 < 5\%$	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records
Well Shutdown Limits	BAAQMD 8-34-116.2	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-116.3	Y		24 hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Well Shutdown Limits	BAAQMD 8-34-117.4	Y		No more than 5 wells at a time or 10% of total collection system, whichever is less	BAAQMD 8-34-117.6 and 501.1	P/D	Records
Well Shutdown Limits	BAAQMD 8-34-117.5	Y		24 hours per well	BAAQMD 8-34-117.6 and 501.1	P/D	Records
TOC (Total Organic Com- pounds Plus Methane)	BAAQMD 8-34-301.2	Y		1000 ppmv as methane (component leak limit)	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with OVA and Records
TOC	BAAQMD 8-34-303	Y		500 ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas, and Records

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Type
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,	8-34-501.4		Source Tests
Com-				dry basis @ 3% O ₂ ,	and		and Records
pounds				expressed as methane	BAAQMD		
(NMOC)				(applies to A-10 Flare only)	Condition		
					#1437,		
					Part 11		
Temper-	BAAQMD	Y		CT ≥ 1432 °F,	BAAQMD	С	Temperature
ature of	Condition			averaged over any 3-hour	8-34-501.3		Sensor and
Combus-	#1437,			period	and 507, and		Recorder
tion Zone	Part 9			(applies to A-10 Flare only)	BAAQMD		(continuous)
(CT)					Condition		
					#1437,		
					Part 14i		
Total	BAAQMD	Y		15 pounds/day or	BAAQMD	P/E	Inspection
Carbon	8-2-301			300 ppm, dry basis	Condition #		with
				(applies only to aeration of	1437,		Portable
				or use as cover soil of soil	Part 14d		Organic
				containing ≤ 50 ppmw of			Vapor
				volatile organic compounds)			Analyzer and Records
Amount	BAAQMD	Y		1 cubic yard per project	BAAQMD	P/E	Records
of	8-40-116.1	1		i cubic yaru per project	Condition #	1/15	Records
Contami-	and				1437,		
nated Soil	BAAQMD				Part 2m		
Aerated	Condition #						
or Used	1437,						
as Cover	Part 2						

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Amount	BAAQMD	Y		8 cubic yards per project,	BAAQMD	P/E	Records
of	8-40-116.2			provided organic content	8-40-116.2		
Contami-	and			≤ 500 ppmw	and		
nated Soil	BAAQMD			and limited to 1 exempt	BAAQMD		
Aerated	Condition			project per 3 month period	Condition #		
or Used	#1437,				1437,		
as Cover	Part 2				Part 2m		
Amount	BAAQMD	Y		Prohibited for Soil with	BAAQMD	P/E	Records
of	8-40-301			Organic Content >50 ppmw	Condition #		
Contami-	and			unless exempt per	1437,		
nated Soil	BAAQMD			BAAQMD 8-40-116, 117,	Part 2m		
Aerated	Condition			or 118			
or Used	#1437,						
as Cover	Part 2						
Amount	BAAQMD	Y		Soil Contaminated by	None	N	N/A
of Acci-	8-40-117			Accidental Spillage of ≤ 5			
dental	and			Gallons of Liquid Organic			
Spillage	BAAQMD			Compounds			
	Condition #						
	1437,						
	Part 2						
Total	BAAQMD	Y		150 pounds per project and	BAAQMD	P/E	Records
Aeration	8-40-118			toxic air contaminant	Condition		
Project	and			emissions per year	#1437,		
Emissions	BAAQMD			<baaqmd 2-1-316<="" table="" td=""><td>Part 2m</td><td></td><td></td></baaqmd>	Part 2m		
	Condition #			limits			
	1437,						
	Part 2						
Low VOC	BAAQMD	Y		Soil with Organic Vapor	BAAQMD	P/E	Surface
Soil	Condition #			Concentration ≤50 ppmv	8-40-604 and		Organic
	1437,			Acceptable as Cover	BAAQMD		Vapor
	Part 3			Material	Condition #		Monitoring
					1437,		
					Part 3		

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/hr (applies to S-1 Landfill operations)	BAAQMD Condition #1437, Part 14e	P/E, M	Records of all site watering and road cleaning events
Opacity FP	BAAQMD 6-301 BAAQMD	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to A-10 Flare) < 0.15 grains/dscf	None	N N	N/A
SO ₂	6-310 BAAQMD 9-1-301	Y		(applies to A-10 Flare only) Property Line Ground Level Limits: ≤ 0.5 ppm for 3 minutes and ≤ 0.25 ppm for 60 min. and ≤0.05 ppm for 24 hours	None	N	N/A
SO ₂	BAAQMD Regulation 9-1-302	Y		(applies to A-10 Flare only) ≤ 300 ppm (dry basis) (applies to A-10 Flare only)	BAAQMD Condition #1437, Parts 10 and 14.j.	P/Q	Sulfur analysis of landfill gas
Total Sulfur Content in Landfill Gas	BAAQMD Condition #1437, Part 10	Y		≤ 1300 ppmv	BAAQMD Condition #1437, Parts 10 and 14j	P/Q	Sulfur analysis of landfill gas
H ₂ S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes	None	N	N/A

VII. Applicable Limits and Compliance Monitoring Requirements

Type of	Citation of	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Amount	-	Y	Date	-		P/D	Records
	BAAQMD	Y		\leq 2600 tons/day and	BAAQMD	P/D	Records
of Waste	Condition			≤ 19,840,000 tons	Condition		
Accepted	#1437,			(cumulative amount of all	#1437,		
	Part 1			wastes) and	Part 14a		
				\leq 36,400,000 yd ³			
				(cumulative amount of all			
				wastes and cover materials)			
Heat	BAAQMD	Y		≤ 912 MM BTU per day	BAAQMD	P/D	Records
Input	Condition			and	Condition		
	#1437,			≤ 332,880 MM BTU per	#1437,		
	Part 8			year	Part 8		
Landfill	BAAQMD	N		\leq 5 gallons per minute	BAAQMD	P/D	Records
Gas Con-	Condition			\leq 375,000 gallons per year	Condition		
densate	#1437,				#1437,		
Injection	Part 13				Part 14k		
in Flare							
Startup	40 CFR	Y	1/16/04	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)

Table VII - B
Source-specific Applicable Requirements
S-2 - IC ENGINE GENERATOR SET

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Opacity	BAAQMD	Y	Upon	Ringelmann No. 1	None	N	N/A
	6-301		Start-up				
			of S-2				
FP	BAAQMD	Y	Upon	0.15 grains/dscf	None	N	N/A
	6-310		Start-up				
			of S-2				
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 and		Inspection
Organic			of S-2		8-34-503		and Records
Com-							
pounds							
Plus							
Methane)							
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			of S-2	< 120 ppmv dry @ 3% O ₂ ,	8-34-501.4,		Control
Com-				expressed as methane	8-34-501.11,		System
pounds					and		Operating
(NMOC)					BAAQMD		Parameter
					Condition #		Records and
					18696, Parts 8,		Annual
					9, and 10		Source Test
NMOC	BAAQMD	Y	Upon	< 120 ppmv dry @ 3% O ₂ ,	BAAQMD	P/M, P/A	Key
	Condition		Start-up	expressed as methane	Condition #		Emission
	# 18696,		of S-2		18696, Parts 8,		Control
	Part 7				9, and 10		System
							Operating
							Parameter
							Records and
							Annual
							Source Test

Table VII - B
Source-specific Applicable Requirements
S-2 - IC ENGINE GENERATOR SET

	Emission		Future		Monitoring	Monitoring	
Type of	Limit	FE	Effective		Requirement	Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
SO_2	BAAQMD	Y	Upon	Property Line Ground	None	N	N/A
	9-1-301		Start-up	Level Limits:			
			of S-2	\leq 0.5 ppm for 3 minutes,			
				\leq 0.25 ppm for 60 minutes			
				& ≤ 0.05 ppm for 24 hours			
SO_2	BAAQMD	Y	Upon	300 ppm (dry)	BAAQMD	P/Q	Sulfur
	9-1-302		Start-up		Condition #		Analysis of
			of S-2		1437, Parts 10		landfill gas
					and 14j		only
H_2S	BAAQMD	N	Upon	Property Line ground level	None	N	N/A
	9-2-301		Start-up	limits ≤ 0.06 ppm			
			of S-2	Averaged over 3 minutes			
				and ≤ 0.03 ppm			
				Averaged over 60 minutes			
NO_x	BAAQMD	Y	Upon	Fossil Fuel Gas, Lean-Burn	BAAQMD	P/A	Annual
	9-8-301.2		Start-up	140 ppmv dry @ 15% O ₂	Condition #		Source Test
			of S-2		18696, Part 9		
NO_x	BAAQMD	Y	Upon	Waste Fuel Gas, Lean-Burn	BAAQMD	P/A	Annual
	9-8-302.1		Start-up	140 ppmv dry @ 15% O ₂	Condition #		Source Test
			of S-2		18696, Part 9		
NO_x	BAAQMD	Y	Upon	\leq 0.6 g/bhp-hr	BAAQMD	P/A	Annual
	Condition		Start-up	expressed as NO ₂	Condition #		Source Test
	# 18696,		of S-2	or	18696, Part 9		
	Part 5			47 ppmv dry @ 15% O ₂			
CO	BAAQMD	Y	Upon	Fossil Fuel Gas:	BAAQMD	P/A	Annual
	9-8-301.3		Start-up	2000 ppmv dry @ 15% O ₂	Condition #		Source Test
			of S-2		18696, Part 9		
CO	BAAQMD	Y	Upon	Waste Fuel Gas:	BAAQMD	P/A	Annual
	9-8-302.3		Start-up	2000 ppmv dry @ 15% O ₂	Condition #		Source Test
			of S-2		18696, Part 9		
CO	BAAQMD	Y	Upon	≤ 1.6 g/bhp-hr	BAAQMD	P/A	Annual
	Condition		Start-up	or	Condition #		Source Test
	# 18696,		of S-2	207 ppmv dry @ 15% O ₂	18696, Part 9		
	Part 6						

Table VII - B Source-specific Applicable Requirements S-2 - IC ENGINE GENERATOR SET

Type of	Emission Limit	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
limit	Citation	Y/N	Date	Emission Limit	Citation	(P/C/N)	Type
Heat	BAAQMD	Y	Upon	≤ 316 MM BTU per day	BAAQMD	P/D	Records
Input	Condition		Start-up	and	Condition #		
	# 18696,		of S-2	≤ 115,282 MM BTU per	18696, Parts 3		
	Part 3			year	and 10		
Emission	BAAQMD	Y	Upon	240 hours/year	BAAQMD	P/D	Records
Control	8-34-113.2		Start-up		8-34-501.2 and		
System			of S-2		BAAQMD		
Shutdown					Condition #		
Time					18696, Part 10a		
Key	BAAQMD	Y	Upon		BAAQMD	P/M	Key
Emission	Condition		Start-up		8-34-501.3 and		Emission
Control	# 18696,		of S-2		8-34-509 and		Control
System	Part 8				BAAQMD		System
Operating					Condition #		Operating
Parameter					18696, Parts 8		Parameter
(s)					and 10c		Records
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 and		
Usage	# 18696,		of S-2	needed as supplemental	BAAQMD		
	Part 2			fuel	Condition #		
					18696, Part 10b		
Gas Flow	BAAQMD	Y	Upon	Vent all collected gases to	BAAQMD	C	Gas Flow
	Condition		Start-up	a properly operating	Condition #		Meter
	# 18696,		of S-2	control system and operate	18696, Part 4		
	Parts 1 & 2			control system			
				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		of S-2	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 found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits in Section VII, Applicable 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	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate
6-310		
BAAQMD	Organic Compound Emission	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or
8-2-301	Limitation for Miscellaneous	EPA Reference Method 25 or 25A
	Operations	
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
8-34-301.3		and ST-14, Oxygen, Continuous Sampling; or
		EPA Reference Method 18, 25, 25A, or 25C
BAAQMD	Limits for Other Emission	Manual of Procedures, Volume IV, ST-7, Organic Compounds
8-34-301.4	Control Systems	and 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 ₂)	Monitoring for Hydrogen Sulfide and Sulfur Dioxide		
BAAQMD	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide,		
9-1-302	(SO ₂)	Continuous Sampling, or		
		ST-19B, Total Sulfur Oxides, Integrated Sample		
BAAQMD	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level		
9-2-301		Monitoring for Hydrogen Sulfide and Sulfur Dioxide		
BAAQMD	Fossil Fuel Emission Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,		
9-8-301.2	(NO_x)	Continuous Sampling or ST-13B, Oxides of Nitrogen, Integrated		
		Sample and ST-14, Oxygen, Continuous Sampling		
BAAQMD	Fossil Fuel Emission Limit (CO)	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,		
9-8-301.3		Continuous Sampling and ST-14, Oxygen, Continuous Sampling		
BAAQMD	Waste Derived Fuel Emission	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,		
9-8-302.1	Limit (NO _x)	Continuous Sampling or ST-13B, Oxides of Nitrogen, Integrated		
		Sample and ST-14, Oxygen, Continuous Sampling		
BAAQMD	Waste Derived Fuel Emission	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,		
9-8-302.3	Limit (CO)	Continuous Sampling and ST-14, Oxygen, Continuous Sampling		
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		

VIII. Test Methods

Table VIII Test Methods

Applicable			
Requirement	Description of Requirement	Acceptable Test Methods	
BAAQMD	Acceptance Criteria for Soils	BAAQMD 8-40-601 and EPA Reference Methods 8015B and	
Condition	containing VOCs	8021B; or EPA Reference Method 21	
#1437, Part 2	(VOC determination)		
BAAQMD	Low VOC Soils for Landfill	BAAQMD 8-40-601 and EPA Reference Methods 8015B and	
Condition	Cover	8021B; and EPA Reference Method 21	
#1437, Part 3			
BAAQMD	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation	
Condition		procedure described in BAAQMD Condition # 1437, Part 8	
#1437, Part 8			
BAAQMD	Flare Combustion Temperature	APCO Approved Device	
Condition	Limit		
#1437, Part 9			
BAAQMD	Landfill Gas Sulfur Content	Draeger Tube: measuring hydrogen sulfide, used in accordance	
Condition	Limit	with manufacturer's recommended procedures	
#1437, Part 10			
BAAQMD	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation	
Condition		procedure described in BAAQMD Condition # 18696, Part 3	
#18696, 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	
#18696, 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	
#18696, Part 6			
BAAQMD	IC Engine NMOC Limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds	
Condition		and ST-14, Oxygen, Continuous Sampling; or	
#18696, Part 7		EPA Reference Method 18, 25, 25A, or 25C	
BAAQMD	Key Emission Control System	APCO Approved Devices and Location	
Condition	Operating Parameter(s)		
#18696, Part 8			

¹ 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.

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 Citation	Title or Description	Streamlined Requirements	Title or Description
8-2-601	Determination of Compliance (for organic compound emissions as total carbon)	8-40-604	Measurement of Organic Concentration (to classify soil as "contaminated" or "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)

IX. Permit Shield

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 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.

X. GLOSSARY

ACT

Federal Clean Air Act

APCO

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

ARB

Air Resources Board

BAAQMD

Bay Area Air Quality Management District

BACT

Best Available 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

CARE

California Air Resources Board (same as ARB)

CEQA

California Environmental Quality Act

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.

CH4 or CH₄

Methane

X. Glossary

CO

Carbon Monoxide

C

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

EG

Emission Guidelines

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 (MACT), 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.

FP

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

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.

X. Glossary

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

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

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.

MSW

Municipal solid waste

MW

Molecular weight

N2 or N₂

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.

X. Glossary

NMHC

Non-methane Hydrocarbons (Same as NMOC)

NMOC

Non-methane Organic Compounds (Same as NMHC)

NOx or NOx

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

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 PM₁₀

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

X. Glossary

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.

RMP

Risk Management Plan

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 SO₂

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.

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

X. Glossary

TSP

Total Suspended Particulate

VOC

Volatile Organic Compounds

Symbols:

< less than = > greater than = < less than or equal to = greater than or equal to >

Units of Measure:

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

 ft^3 cubic feet = = grams g gal = gallon

=

gallons per minute gpm

grains gr hp horsepower = hr hour =

lb = pound lbmol = pound-mole (eq. to molecular weight of compound x lb)

inches in =

 m^2 square meter m^3 cubic meters =

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

Mg = mega grams ppb parts per billion =

ppbv parts per billion, by volume

X. Glossary

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

XI. APPLICABLE STATE IMPLEMENTATION PLAN

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=3.1