Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

Acme Fill Corporation
Facility #A1464

Facility Address:
950 Waterbird Way
Martinez, CA 94553

Mailing Address:
PO Box 1108
Martinez, CA 94553

Responsible Official	**Facility Contact**
Nicholas J. Farros, P.E., Engineering Manager	Pat Lacey, Site Monitor
(530) 676-5469	(925) 228-7099

Type of Facility: Landfill
Primary SIC: 4953
Product: Stored Municipal Waste

BAAQMD Permit Division Contact:
Randy Frazier, P.E.

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

William C. Norton _____ April 17, 2003 _____
William C. Norton, Executive Officer/Air Pollution Control Officer Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions
(as amended by the District Board on 5/2/01);
SIP Regulation 1 - General Provisions and Definitions
(as approved by EPA through 1/26/99);
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 April 17, 2003 and expires on March 31, 2008. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than September 30, 2007 and no earlier than March 31, 2007. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after March 31, 2008.** (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)
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)

I. Standard Conditions

5. The filing of a request by the facility for a permit modification, revocation and re-issuance, 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, 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)

I. Standard Conditions

E. Records

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

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be April 17, 2003 to September 30, 2003. The report shall be submitted by October 31, 2003. Subsequent reports shall be for the following periods: October 1st through March 31st and April 1st through September 30th, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

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

G. Compliance Certification

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

Director of the Air Division

I. Standard Conditions

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
1	Acme Landfill, Active Solid Waste Disposal Site with Active Gas Collection System Landfill Gas Collection System	Active solid waste disposal site. Types of waste accepted are clean fill materials including green waste, wood waste, and inert, commercial, and construction debris. Active		Max. Design Capacity = 22.522 E6 yd^3 (17.22 E6 m^3) Max. Cumulative Waste In Place = 11.2 MM tons in place Max. Acceptance Rate = 1,500 tons/day 60 vertical wells and 28 horizontal collectors
4	Diesel IC Engine for S-5 Tub Grinder	Caterpillar	3408TA	503 bhp, 4.6 gallons/hour of diesel oil, 0.640 MM BTU/hour, 1099 in^3 displacement
5	Green Waste Tub Grinder	W.H.O.	P12-S6HD	30 tons/hour
200	Leachate Treatment Facility	 Flow Equalization Tank East Parcel Influent Tank Aeration Tanks (2) Secondary Clarifier NaOH Storage Tank	 custom custom custom custom custom	23 gpm total capacity 13,000 gallons 16,000 gallons 13,000 gallons each 14,000 gallons 6,000 gallons

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	Water Truck	S-1	BAAQMD Regulation 6-301	None	Ringelmann No. 1
2	Landfill Gas Flare	S-1	BAAQMD 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of 1400 °F, see also Table VII-A	98% destruction of NMOC or < 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 both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (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
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
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 (5/15/96)	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)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	Y
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
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.

Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/2/01)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
SIP 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]	
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/1990)**		

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to A-2 only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	**Organic Compounds – Solid Waste Disposal Sites (10/6/1999)**		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	
8-34-116.2	Limits on Number of Wells Shutdown	Y	
8-34-116.3	Shutdown Duration Limit	Y	
8-34-116.4	Capping Well Extensions	Y	
8-34-116.5	Well Disconnection Records	Y	
8-34-117	Limited Exemption, Gas Collection System Components	Y	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	Y	
8-34-117.2	New Components are Described in Collection and Control System Design Plan	Y	
8-34-117.3	Meets Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-34-303	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	
8-34-404	Less than Continuous Operation Petition Contents	Y	
8-34-404.1	Landfill gas flowrates, methane concentrations	Y	
8-34-404.2	Collection system map with component locations	Y	
8-34-404.3	Operating, maintenance, and inspection schedule	Y	
8-34-404.4	APCO approval contents	Y	
8-34-404.5	Petition renewal every 3 years	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	
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-34-501.5	Monthly landfill gas flowrates and well concentrations for facilities subject to 8-34-404 (less than continuous operation)	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorded	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995)**		
9-1-301	Limitations on Ground Level Concentrations (applies to A-2 Flare only)	Y	
9-1-302	General Emission Limitations (applies to A-2 Flare only)	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/1999)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/1998)**		
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	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 tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60, Subpart CC	**Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/1999)**		
60.36c(a)	Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions $\geq$ 50 MG/year	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 62	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)**		
62.1115	Identification of Sources	Y	
40 CFR Part 60, Subpart WWW	**Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (2/24/99)**		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to or greater than 2.5 million Mg **and** 2.5 million m^3 (Large Designated Facilities)	Y	
60.754	Test Methods and Procedures	Y	
60.754(a)	NMOC Calculation Procedures for NMOC Emission Rate Reports and Comparison to 50 Mg/Year Standard	Y	
60.654(a)(1)	Calculate NMOC Emission Rate using either or both of the equations in 60.754(a)(1)(i-ii) with the listed default values	Y	
60.754(a)(2)	Tier 1 – compare calculated NMOC emission rate to 50 Mg/year	Y	
60.754(a)(3)	Tier 2 – compare recalculated NMOC emission rate to 50 Mg/year	Y	
60.754(a)(4)	Tier 3 – compare recalculated NMOC emission rate to 50 Mg/year	Y	
60.757	Reporting Requirements	Y	
60.757(a)	Submit an Initial Design Capacity Report	Y	2
60.757(a)(1)	Fulfills 60.7(a)(1)	Y	2
60.757(a)(1)(ii)	Due date is 90 days after the date construction is commenced	Y	2
60.757(a)(2)	Contents of Initial Design Capacity Report	Y	2
60.757(b)	Submit Initial and Annual NMOC Emission Rate Report	Y	2
60.757(b)(1)	annual or 5 year estimate of NMOC emission rate	Y	2
60.757(b)(1)(i)	Combine with Initial Design Capacity Report (same due date)	Y	2
60.757(b)(1)(ii)	If NMOC < 50 Mg/yr for next five years, submit a 5 year report in lieu of annual report	Y	2
60.757(b)(2)	Contents of NMOC Emission Rate Reports	Y	2

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/1994)**		
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)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	1/16/04
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	1/16/04
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/2003)**		
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 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

IV. Source Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19906			
Part 1	Design capacity and waste acceptance rate limits (Regulation 2-1-301)	Y	
Part 2	Particulate emissions control measures (Regulations 2-1-403, 6-301, and 6-305)	Y	
Part 3	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	
Part 4	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, and 8-34-305)	Y	
Part 5	Landfill gas collection system operating requirements (Regulation 8-34-301.1)	Y	
Part 6	Flare heat input limits (Regulation 2-1-301)	Y	
Part 7	Flare temperature limit (Toxic Risk Management Policy and Regulation 8-34-301.3)	Y	
Part 8	Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302)	Y	
Part 9	Annual source test (Regulations 8-34-301.3 and 8-34-412)	Y	
Part 10	Annual landfill gas characterization test (Toxic Risk Management Policy and Regulation 8-34-412)	Y	
Part 11	Record keeping 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 12	Annual Reports, Semi-Annual Submittals (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.

2. The Initial Design Capacity Report and either first-annual or five-year NMOC Emission Rate Report are due no later than 90 days after the date that construction on the expanded portion of the landfill begins. If no specific construction is required, the reports are due no later than 90 days after the date that waste placement first exceeded the previous design capacity.

IV. Source Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-4 IC ENGINE (POWERING S-5 TUB GRINDER)

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-303	Ringelmann No. 2 Limitation		
6-303.1	Internal combustion engines below 1500 cubic inches displacement or standby engines	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Liquid and Solid Fuels	Y	
BAAQMD Condition # 19911			
Part 1	Hours of Operation (Cumulative Increase)	Y	
Part 2	Records of Operating Hours (Cumulative Increase)	Y	
Part 3	Fuel Sulfur Content Limit and Record Requirements (Regulations 9-1-304, 2-6-409.2 and 2-6-501)	Y	
Part 4	Observation of Emissions for S-4 (Regulations 2-1-403, 6-303, and 6-305)	Y	

IV. Source Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-5 GREEN WASTE TUB GRINDER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6	**Particulate Matter and Visible Emissions (12/19/90)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-311	General Operations: Emission Limit Based on Process Weight Rate	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition # 19911			
Part 1	Hours of Operation (Cumulative Increase)	Y	
Part 2	Records of Operating Hours (Cumulative Increase)	Y	
Part 5	Requirement for Abatement of S-5 (Regulations 2-1-403 and 6-305)	Y	
Part 6	Ringelmann 1.0 limitation for S-5 (Regulations 1-301 and 6-301)	Y	
Part 7	Incoming waste processing queue (Regulations 1-301, 1-430, 1-432, and 1-433)	N	
Part 8	Observation of Emissions Source (Regulations 2-1-403, 6-301, and 6-305)	Y	

IV. Source Specific Applicable Requirements

Table IV – D
Source-specific Applicable Requirements
S-200 LEACHATE TREATMENT FACILITY

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	**Organic Compounds-Miscellaneous Operation (3/22/1995)**	Y	
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition # 19908			
Part 1	VOC and Benzene Emissions Limitations (Regulation 8-2-301 and TRMP)	Y	
Part 2	Quarterly Influent and Effluent Monitoring (Regulation 1-441)	Y	
Part 3	Leachate Throughput Limitation (Cumulative Increase)	Y	
Part 4	Record Keeping Requirements (Regulation 1-441)	Y	

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 # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

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:
   a. Total waste accepted and placed at the landfill shall not exceed 1,500 tons in any single day. (basis: Regulation 2-1-301)
   b. The total cumulative amount of all wastes placed in the landfill shall not exceed 11.2 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 2-1-234.2, that the limit should be higher. (basis: Regulation 2-1-301)
   c. The maximum design capacity of the landfill (total volume of all wastes and cover materials placed in the landfill, excluding final cover) shall not exceed 22.522 million cubic yards. (basis: Regulation 2-1-301)

2. Water and/or dust suppressants shall be applied to all unpaved roadways and active soil removal and fill areas associated with this landfill as necessary to prevent visible particulate emissions. Paved roadways at the facility shall be kept sufficiently clear of dirt and debris as necessary to prevent visible particulate emissions from vehicle traffic or wind. (basis: Regulations 2-1-403, 6-301, and 6-305)

VI. Permit Conditions

Condition # 19906

**FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE**

3. All collected landfill gas shall be vented to the properly operating Landfill Gas Flare (A-2) and/or to any of the following sources:
   a. S-1, S-2, S-3, S-4, microturbine generators at Bulldog Gas & Power (BAAQMD Plant 13782).
   b. S-7 boiler, S-8 boiler, S-9 Sewage Sludge Incinerator, S-10 Sewage Sludge Incinerator or S-188 cogeneration turbine at Central Contra Costa Sanitary District (BAAQMD Plant 907).

   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 or to inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)

4. The permit holder shall apply for and receive an Authority to Construct before modifying the landfill gas collection system described in Part 4a, below. Increasing or decreasing the number of wells or collectors, or 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 # 2273.

	Required Components
Total Number of Vertical Wells:	60
Total Number of Horizontal Collectors:	28

   (basis: Regulations 2-1-301, 8-34-301.1, 8-34-304, 8-34-305)

5. The vertical well portion of the landfill gas collection system described in Part 4a shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the District, unless the Permit Holder complies with all applicable requirements of Regulation 8, Rule 34 Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)

VI. Permit Conditions

Condition # 19906

**FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE**

The horizontal collector system may be operated on a non-continuous basis subject to the following criteria:

a. ACME Fill shall install and maintain a District-approved vacuum/pressure gauge on each leg of the horizontal collector system.

b. ACME Fill shall monitor and record the pressure of each horizontal leg at a frequency of at least one time every calendar month.

c. When a positive pressure in a horizontal collector leg is noted, the isolation valve shall be opened, and the vapor depleted until the oxygen content at the collector leg increases to at least 5 percent or when the collector leg methane content decreases to 20 percent or less. Upon reaching either of these levels, the horizontal collector leg may be isolated from the vacuum system. (basis: Regulation 8-34-404)

d. ACME Fill shall renew the non-continuous operation petition at a frequency of at least once every 3 years. (basis: Regulation 8-34-404.5)

6. The Heat Input to the A-2 Landfill Gas Flare shall not exceed 1375 million BTU per day nor 412,560 million BTU per year. In order to demonstrate compliance with this part, the Permit Holder shall calculate and record on a monthly basis the maximum daily and total monthly heat input to the flare based on the landfill gas flow rate recorded pursuant to part 10, the average methane concentration in the landfill gas based on the most recent source test, and a high heating value for methane of 1013 BTU/scf. (basis: Regulation 2-1-301)

7. The combustion zone temperature of A-2 shall be maintained at a minimum of 1400 degrees Fahrenheit, 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 of Regulation 2-6-416 such that the minimum combustion zone temperature is 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: Toxic Risk Management Policy and Regulation 8-34-301.3)

VI. Permit Conditions

Condition # 19906

**FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE**

8. Hydrogen sulfide in the collected landfill gas shall be monitored as a surrogate for sulfur dioxide in the control system exhaust. The concentration of hydrogen sulfide 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 hydrogen sulfide content in collected landfill gas on a quarterly basis using a Draeger tube. The landfill gas sample shall be taken from the main landfill gas header. The Permit Holder shall follow the manufacturer's recommended procedures for using the Draeger tube and interpreting the results. The Permit Holder shall conduct the first Draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (basis: Regulation 9-1-302)

9. In order 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-2). 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.
   e. The NMOC destruction efficiency achieved by the flare.
   f. the average combustion zone temperature in the flare during the test period.

   Each annual source test shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain 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 the Source Test Section within 45 days of the test date. (basis: Regulations 8-34-301.3 and 8-34-412)

VI. Permit Conditions

Condition # 19906

**FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE**

10. The Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by part 9 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in part 9b, 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. 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)

11. In order to demonstrate compliance with the above conditions, the Permit Holder shall maintain the following records in a District approved logbook.
    a. Record of the total amount of waste received at S-1 on a daily basis. Summarize the daily waste acceptance records for each calendar month.
    b. For each area or cell that is not controlled by a landfill gas collection system, maintain a record of the date that waste was initially placed in the area or cell. Record the cumulative amount of waste placed in each uncontrolled area or cell 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. Record of the dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. Record the dates, locations, and type of any dust suppressant applications. Record the dates and description of all paved roadway cleaning activities. All records shall be summarized on monthly basis.
    e. Record the initial operation date for each new landfill gas well and collector.

VI. Permit Conditions

Condition # 19906

FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE

f. Maintain 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 5. 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.

g. Record the operating times and the landfill gas flow rate to the A-2 Landfill Gas Flare on a daily basis. Summarize these records on a monthly basis. Calculate and record the heat input to A-2, pursuant to part 6.

h. On a monthly basis, record the pressures of all horizontal collector legs and the date and time the gauge readings were taken.

i. Horizontal collector operation: Record the dates and times of commencement or discontinuation of landfill gas production from a respective collector leg and the basis for the action.

j. Maintain continuous records of the combustion zone temperature for the A-2 Landfill Gas Flare during all hours of operation.

k. Maintain records of all test dates and test results performed to maintain compliance parts 8, 9, and 10, above or to maintain compliance with any applicable rule or regulation.

All records shall be maintained on site or shall be made readily available to District staff upon request for a period of at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations. (basis: Regulations 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 # 19906

**FOR: S-1 ACME LANDFILL WITH GAS COLLECTION SYSTEM;
A-1 WATER TRUCK; AND A-2 LANDFILL GAS FLARE**

12. The permit holder shall submit to the APCO annual reports 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 December 1, 2002 through 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 # 19908
FOR: S-200 LEACHATE TREATMENT FACILITY

1. Emissions from this source shall not exceed the following limits:
   a. 0.63 pounds of volatile organic compounds in any consecutive 24 hour period (Basis: Regulations 8-2-301); and
   b. 0.05 pounds of benzene in any consecutive 24-hour period. (Basis: TRMP)

2. To determine compliance with part 1, above, the following procedures shall apply:
   a. Influent and effluent leachate samples shall be collected and analyzed quarterly for benzene and total VOC concentrations according to the following source test methods: (Basis: Regulation 1-441)

Stream Name	VOC Test Method	Benzene Test Method
Leachate Influent	EPA SW 8240	EPA SW 8020
Leachate Effluent	EPA SW 8240	EPA SW 8020

   b. Emissions shall be calculated by applying 75% biodegradation efficiency (as demonstrated in startup source tests of July 20, 21, 22, 1993) to influent VOC and benzene concentrations.
   c. If requested by ACME Landfill, the District may review and adjust the influent and effluent leachate sampling frequencies required under this condition.

3. The leachate influent flow rate to S-200 shall not exceed 33,000 gallons per day. (Basis: Cumulative Increase)

4. To demonstrate compliance with the above conditions, the following records shall be kept on site and made available for District inspection for a period of 5 years from the date on which a record was made. (Basis: Regulation 1-441)
   DAILY OPERATING RECORDS
   a. The days of operation
   b. The influent leachate flow rate
   c. The airflow rate to each aeration tank
   MONITORING RECORDS
   d. Calculated emissions for benzene and Total VOC's expressed as pounds per day.

VI. Permit Conditions

Condition # 19911
FOR: S-4 IC ENGINE AND S-5 GREEN WASTE TUB GRINDER

1. The hours of operation of S-4 and S-5 shall not exceed 2920 hours during any consecutive 365-day period. (Basis: Cumulative Increase)

2. To demonstrate compliance with part 1 above, the operator of S-4 and S-5 shall keep daily records showing the hours of operation. These daily records shall be totaled on a monthly basis and shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which the records was made. (Basis: Cumulative Increase)

3. a. The permit holder shall not burn diesel fuel with a sulfur content in excess of 0.5% by weight (Basis: Regulation 9-1-304).
   b. To demonstrate compliance with this limit, every delivery of diesel fuel received shall be accompanied by either 1) a vendor certification of sulfur content, 2) a written certification stating the diesel meets the CARB 500 ppmw maximum sulfur content standard, or 3) test results showing sulfur content from a District-approved test. The certifications or test results shall be maintained onsite for at least 5 years and shall be made available to the District upon request. (Basis: Regulations 2-6-409.2 and 2-6-501)

4. The exhaust of S-4 diesel engine shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the operator of the source shall take necessary corrective action to stop the emissions. (Basis: Regulations 2-1-403, 6-303, and 6-305)

5. S-5 shall be abated by water spray truck A-1 as needed to prevent visible dust emissions. All wood waste shall maintain a minimum moisture content of 30% by weight. (Basis: Regulations 2-1-403 and 6-305)

6. Visible particulate emissions from S-5 shall not exceed Ringelmann 1.0 or result in fallout on adjacent property in such quantities as to cause a public nuisance as per Regulation 1-301. (Basis: Regulations 1-301 and 6-301)

VI. Permit Conditions

Condition # 19911
FOR: S-4 IC ENGINE AND S-5 GREEN WASTE TUB GRINDER

*7. All incoming green waste (i.e. yard trimmings, green leaves, tree limbs, brush) shall be processed within 14 days with the volume not to exceed 1,500 cubic yards at any one time unless an odor nuisance is created. If an odor nuisance is created, the incoming green waste shall be processed within 72 hours from the time it is received to prevent wood decomposition and odors. Breakdown relief from this condition part is available provided all the breakdown criteria and requirements of Regulation 1 are met. (Basis: Regulations 1-301, 1-430, 1-432, and 1-433)

8. Continuous observation of S-5 Tub Grinder for visible emissions is required during all periods of operation. If visible emissions exceeding Ringelmann 1.0 are detected, the operator of the source shall take the necessary corrective action to stop the emissions (Basis: Regulations 2-1-403, 6-301, and 6-305)

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 LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installation Dates	BAAQMD 8-34-304.1	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E	Records
Collection System Installation Dates	BAAQMD 8-34-304.2	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Collection System Installation Dates	BAAQMD 8-34-304.3	Y		For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste	BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 19906, Parts 11b-c and 11e-f	P/E	Records
Gas Handling Require-ments	BAAQMD Condition # 19906, Parts 3, 4, 5	Y		60 Vertical collectors, 28 horizontal collectors; All collected landfill gas shall be vented to a properly operating control system	BAAQMD Condition # 19906, Part 11e-g, h-i	P/D	Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Conti-nuous, Non-Continuous Operation	BAAQMD Condition # 19906, Part 5	Y		Vertical collection to operate continuously; Horizontal Collector System to Operate Non-Continuously	BAAQMD Condition 19906, Part 11h-i	P	Vacuum/ Pressure readings on horizontal collectors
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year and 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Periods of Inoperation for Para-metric 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 ^{o}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
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

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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 portable analyzer 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 of surface with portable analyzer, Various Reinspec-tion Times for Leaking Areas, and Records
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.3	Y		98% removal by weight OR < 30 ppmv, dry basis @ 3% O_2, expressed as methane (applies to A-2 only)	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 19906, Part 9	P/A	Initial and Annual Source Tests and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Temperature of Combustion Zone (CT)	BAAQMD Condition # 19906, Part 7	Y		CT $\geq$ 1400 °F, averaged over any 3-hour period (applies to A-2 only)	BAAQMD 8-34-501.3 and 507, and BAAQMD Condition # 19906, Part 11j	C	Temperature Sensor and Recorder (continuous)
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to S-1 Landfill Operations)	BAAQMD Condition # 19906, Part 11d	P/E, M	Records of all site watering and road cleaning events
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to A-2 Flare)	None	N	NA
FP	BAAQMD 6-310	Y		$\leq$ 0.15 grains/dscf (applies to A-2 only)	None	N	NA
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: $\leq$ 0.5 ppm for 3 minutes and $\leq$ 0.25 ppm for 60 min. and $\leq$0.05 ppm for 24 hours	None	N	NA
SO_2	BAAQMD Regulation 9-1-302	Y		$\leq$ 300 ppm (dry basis) (applies to A-2 only)	BAAQMD Condition # 19906, Part 8	P/Q	H2S analysis of landfill gas
Hydrogen Sulfide Content in Landfill Gas	BAAQMD Condition # 19906, Part 8	Y		$\leq$ 1300 ppmv	BAAQMD Condition # 19906, Part 8	P/Q	H2S analysis of landfill gas
H_2S	BAAQMD 9-2-301	N		Property Line Ground Level Limits: $\leq$ 0.06 ppm, averaged over 3 minutes and $\leq$ 0.03 ppm, averaged over 60 minutes	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII - A
Applicable Limits and Compliance Monitoring Requirements
S-1 LANDFILL WITH GAS COLLECTION SYSTEM
A-1 WATER TRUCK
A-2 LANDFILL GAS FLARE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Amount of Waste Accepted	BAAQMD Condition # 19906, Part 1	Y		$\leq$ 1500 tons/day and $\leq$ 11,200,000 tons (cumulative amount of all wastes) and $\leq$ 22,522,000 yd^3 (cumulative amount of all wastes and cover materials)	BAAQMD Condition # 19906, Part 11a	P/D	Records
Heat Input	BAAQMD Condition # 19906, Part 6	Y		$\leq$ 1375.2 MM BTU per day and $\leq$ 412,560 MM BTU per year	BAAQMD Condition # 19906, Part 6	P/D	Records
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y	1/16/04	Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -B
Applicable Limits and Compliance Monitoring Requirements
S-4 IC ENGINE (POWERING S-5 TUB GRINDER)

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Usage	BAAQMD Condition # 19911, Part 1	Y		2920 hours during any consecutive 365 day period	BAAQMD Condition # 19911, Part 2	P/D	Daily Record of Operating Hours
FP	BAAQMD Regulation 6-310	Y		0.15 gr/dscf	None	N	NA
SO_2	BAAQMD Regulation 9-1-301	Y		Property Line Ground Level Limits: $\leq$ 0.5 ppm for 3 minutes and $\leq$ 0.25 ppm for 60 min. and $\leq$0.05 ppm for 24 hours	None	N	NA
Diesel Sulfur Content	BAAQMD Regulation 9-1-304 and BAAQMD Condition # 19911, Part 3a	Y		0.5% sulfur by weight	BAAQMD Condition 19911, Part 3b	P/E	Records of vendor certifications of diesel sulfur content or CARB specification
Opacity	BAAQMD Regulation 6-303.1	Y		Ringelmann 2.0 for 3 minutes in any hour	BAAQMD Condition # 19911, Part 4	P/E	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII -C
Applicable Limits and Compliance Monitoring Requirements
S-5 GREEN WASTE TUB GRINDER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Usage	BAAQMD Condition # 19911, Part 1	Y		2920 hours during any consecutive 365 day period	BAAQMD Condition # 19911, Part 2	P/D	Daily Record of Operating Hours
FP	BAAQMD Regulation 6-311	Y		$E = 0.026(P)^{0.67}$ where: E = Allowable Emission Rate (lb/hr); and P = Process Weight Rate (lb/hr) Maximum Allowable Emission Rate = 40 lb/hr For P >57,320 lb/hr	None	N	NA
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition # 19911, Part 8	P/E	Observation of Source in Operation
Opacity	BAAQMD Condition # 19911, Part 6	Y		Ringelmann 1.0 from S-5 Green Waste Tub Grinder	BAAQMD Condition # 19911, Part 8	P/E	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – D
Applicable Limits and Compliance Monitoring Requirements
S-200 LEACHATE TREATMENT FACILITY

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Carbon	BAAQMD 8-2-301	Y		15 pounds/day or 300 ppm, dry basis	BAAQMD Condition # 19908, Parts 2 and 4	P/D,Q	Daily Records and Quarterly Influent, Effluent Sampling, Mass Balance
VOC	BAAQMD Condition 19908, Part 1a	Y		0.63 pounds in any consecutive 24 hour period	BAAQMD Condition # 19908, Part 2	P/Q	Influent, Effluent Sampling, Mass Balance
Benzene	BAAQMD Condition 19908, Part 1b	Y		0.05 pounds in any consecutive 24 hour period	BAAQMD Condition # 19908, Part 2	P/Q	Influent, Effluent Sampling, Mass Balance
Leachate Flow	BAAQMD Condition 19908, Part 3	Y		33,000 gal per day	BAAQMD Condition 19908, Part 4	P/D	Daily Records

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 Emission Limits & Compliance Monitoring Requirements, of this permit.

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-303	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or Calculate Emissions in Accordance with EPA AP-42 Procedures
BAAQMD 6-311	Process Weight Rate Based Emissions Limits	Manual of Procedures, Volume IV, ST-15, Particulates Sampling, or Calculate Emissions in Accordance with EPA AP-42 Procedures
BAAQMD 8-34-301.2	Collection and Control System Leak Limitations	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.3	Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-303	Landfill Surface Requirements	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-305.1	Wellhead Gauge Pressure	APCO Approved Device
BAAQMD 8-34-305.2	Wellhead Temperature	APCO Approved Device
BAAQMD 8-34-305.3	Wellhead Nitrogen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-305.4	Wellhead Oxygen	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-412	Compliance Demonstration Test	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
BAAQMD 9-1-301	Limitations on Ground Level Concentrations (SO_2)	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD 9-1-302	General Emission Limitation (SO_2)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides, Integrated Sample
BAAQMD 9-1-304	Sulfur Limitations, Liquid Fuel	Manual of Procedures, Volume III, Method 10, Sulfur Content of Fuels
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
BAAQMD Condition # 19906, Part 6	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 19906, Parts 6 and 10
BAAQMD Condition # 19906, Part 7	Flare Combustion Zone Temperature Limit	APCO Approved Device
BAAQMD Condition # 19906, Part 8	Landfill Gas hydrogen sulfide Content Limit	Draeger Tube: used in accordance with manufacturer's recommended procedures
BAAQMD Condition # 19906, Part 10	Characterization of landfill gas	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
BAAQMD Condition # 19908, Part 1a	VOC Limits	EPA SW 8240 and calculation procedure described in BAAQMD Condition # 19908, Part 2b
BAAQMD Condition # 19908, Part 1b	Benzene Limits	EPA SW 8020 and calculation procedure described in BAAQMD Condition # 19908, Part 2b
BAAQMD Condition 19911, Part 5	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions

IX. PERMIT SHIELD

No permit shield has been requested or is applicable.

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.

C_6H_6
Benzene

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CAPCOA
California Air Pollution Control Officers Association

CARB
California Air Resources Board (same as ARB)

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 CH_4
Methane

CO

X. Glossary

Carbon Monoxide

CT
Combustion Zone Temperature

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

District
The Bay Area Air Quality Management District

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 H_2S
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 N_2
Nitrogen

NA
Not Applicable

NAAQS
National Ambient Air Quality Standards

NaOH
Sodium Hydroxide

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 NO_x
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 O_2
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

X. Glossary

PM10 or PM_{10}
Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

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

S
Sulfur

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

SO2 or SO_2
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

X. Glossary

Total Reduced Sulfur

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:

bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft^3	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour
lb	=	pound
lbmol	=	pound-mole
in	=	inches
m^2	=	square meter
m^3	=	cubic meters
min	=	minute
mm	=	million
MM	=	million
MM BTU	=	million BTU
MMcf	=	million cubic feet
Mg	=	mega grams
ppb	=	parts per billion

X. Glossary

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