Bay Area Air Quality Management District

375 Beale Street, Suite 600
San Francisco, CA 94105
(415) 771-6000

Final

MAJOR FACILITY REVIEW PERMIT

Issued To:

West Contra Costa Sanitary Landfill, Inc.
Facility #A1840

Facility Address:
1 Parr Blvd
Richmond, CA 94801

Mailing Address:
3260 Blume Drive, Suite 200
Richmond, CA 94806

Responsible Official	**Facility Contact**
Mr. Daryl Smith	Mr. Doug Brewer
General Manager	Plant Manager
510-412-4503	510-412-4503

Type of Facility:	Solid Waste Landfill and Electrical Generation	**BAAQMD Engineering Division Contact:**
Primary SIC:	4953	Stanley Tom
Product:	Disposal Services and Electricity	

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jaime A. Williams — June 1, 2017
Jaime A. Williams, Director of Engineering — 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 5/4/11);

SIP Regulation 1 - General Provisions and Definitions (as approved by EPA through 6/28/99);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements (as amended by the District Board on 12/19/12, effective 8/31/16);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review (as amended by the District Board on 12/19/12, effective 8/31/16);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking (as amended by the District Board on 12/19/12);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking (as approved by EPA through 1/26/99);

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants (as amended by the District Board on 12/7/16);

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review (as amended by the District Board on 4/16/03); and

SIP Regulation 2, Rule 6 – Permits, Major Facility Review (as approved by EPA through 6/23/95)

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

1. This Major Facility Review Permit was issued on December 20, 2010 and expires on December 19, 2015. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than June 19, 2015, and no earlier than December 19, 2014. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after** December 19, 2010**.** If the permit renewal has not been issued by December 19, 2010, but a complete application for renewal has been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)

3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance

I. Standard Conditions

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 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, which the permittee considers to contain proprietary or trade secret information, shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions 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. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)
12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless of whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

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C. Requirement to Pay Fees

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

D. Inspection and Entry

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

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, 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. Reports shall be for the following periods: November 1st through April 30th and May 1st through October 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 by e-mail to compliance@baaqmd.gov or by postal mail to the following address:

Director of Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
Attn: Title V Reports

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this

I. Standard Conditions

facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be May 1st through April 30th. The certification shall be submitted by May 31st 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 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 by e-mail to r9.aeo@epa.gov or postal mail to the Environmental Protection Agency at the following address:

Director
Enforcement Division, TRI & Air Section (ENF-2-1)
USEPA Region 9
75 Hawthorne Street
San Francisco, California 94105

(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-5	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas	Waukesha Lean Burn	7042 GL	1478 hp, 975 kW, 7040 in^3, 11.9 E6 BTU/hour, 330-496 scfm of landfill gas, based on heat contents of 600-400 BTU/scf, respectively
S-6	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas	Waukesha Lean Burn	7042 GL	1478 hp, 975 kW, 7040 in^3, 11.9 E6 BTU/hour, 330-496 scfm of landfill gas, based on heat contents of 600-400 BTU/scf, respectively
S-15	West Contra Costa Sanitary Landfill (Closed Class I and Class II Waste Disposal Areas) -Waste Decomposition Process Equipped with Landfill Gas Collection System Landfill gas collection system	Type of waste accepted are MSW, Commercial, Industrial, and Construction Horizontal Collectors Vertical Wells		Max. Design Capacity = 21.47 E6 yd^3 (16.42 E6 m^3) Max. Acceptance Rate = 2500 tons/day Max. Cumulative Waste In Place = 13.0 E6 tons 7 horizontal collectors and 67 vertical wells
S-37	Internal Combustion Lean Burn Engine, fired exclusively on landfill gas	Waukesha Lean Burn	7042 GL	1585 hp, 1050 kW, 7040 in^3, 10.5 E6 BTU/hour, 292-437 scfm of landfill gas, based on heat contents of 600-400 BTU/scf, respectively
S-50	Solid Waste Transfer Station	Custom	Custom	2000 tons/day, 730000 tons/year
S-69	Inlet Storage Tank #1	Snyder Industries Inc.	HDLP Tank	16500 gallons capacity
S-70	Inlet Storage Tank #2	Snyder Industries Inc.	HDLP Tank	16500 gallons capacity
S-71	Primary Oil Water Separator	Hoffland Environmental Inc.	OWS-100	100 gallons/minute

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-72	Secondary Separator/Emulsion Breaker	Hydroflow Technologies	EBX	50 gallons/minute
S-74	Inclined Plate Clarifier	Hoffland Environmental Inc.	250/60MA	50 gallons/minute
S-111	Concrete Crusher	Torgerson Rubble Impactor	CXR	200 tons/hr
S-112	Crushed Concrete Screener	Tyler 2-Deck Portable Screening Plant		200 tons/hr
S-113	Concrete/Asphalt Storage Piles			20-acre area for all concrete/asphalt operations
S-114	Conveyors (Crushed Concrete)			62.5 tons/hr
S-115	Wood/Yard Waste Shredder (Tub Grinder)	Morbark	5600	60 tons/hr
S-116	Wood Waste Screener	Morbark	721	60 tons/hr
S-117	Composting Operation			40-acre area; Windrow operation 19,000 tons/yr
S-118	Crushing of Asphalt Debris	Dozer		7 tons/hr
S-120	Air Stripper	QED 6 tray model		115 gpm blower rate 850 cfm
S-123	Air Stripper Holding (Feed) Tank			2500 gallon capacity
S-130	Standby Air Stripper	QED 4 tray model		60 gpm blower rate 600 cfm
S-140	Clarifier Holding (Feed) Tank			1600 gallon capacity
S-141	Inlet Feed Holding Tank	Snyder High Density Linear Polyethylene Tank		16,500 gallon
S-142	Waste Oil Tank			1000 gallon capacity
S-145	E-22R Area Tank			12,500 gallon capacity
S-146	Pretreatment Inlet Feed Tank			11,500 gallon capacity
S-151	Waste Oil Tank			1000 gallon capacity
S-155	Oil Sludge Thickener			4500 gallon capacity

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-156	Three Day Tanks			Each tank 16,500 gallon capacity
S-157	Filter Press Surge Tank			1600 gallon capacity

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-8	Backup Landfill Gas Flare, burning landfill gas, 49.5 MM BTU/hour	S-15	BAAQMD 8-34-301.3, see also Table IV-B	Minimum combustion zone temperature of 1400 °F (3-hour average), see also Table VII-B	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH_4, at 3% O_2, dry, see also Table VII-B
A-14	Carbon Adsorber (three vessels in series with A-14 first, followed by A-15, followed by A-16	S-120, S-130	BAAQMD 8-47-301, see also Table IV-D	NMHC in A-14 inlet and outlet	Replace carbon when NMHC removal efficiency is less than 90% and NMHC concentration is 10 ppmv or greater

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-15	Carbon Adsorber (three vessels in series with A-14 first, followed by A-15, followed by A-16	S-120, S-130	BAAQMD 8-47-301, see also Table IV-D	NMHC in A-15 outlet	Replace carbon when NMHC removal efficiency is less than 90% and NMHC concentration is 10 ppmv or greater
A-16	Carbon Adsorber (three vessels in series with A-14 first, followed by a-15, followed by A-16	S-120, S-130	BAAQMD 8-47-301, see also Table IV-D	NMHC in A-16 inlet and outlet	Replace carbon when NMHC concentration is 6 ppmv or greater
A-120	Landfill Gas Flare, burning landfill gas, 91.26 MM BTU/hour	S-15	BAAQMD 8-34-301.3, see also Table IV-B	Minimum combustion zone temperature of 1400 °F (3-hour average), see also Table VII-B	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH_4, at 3% O_2, dry, see also Table VII-B
A-17	Carbon Adsorber (three vessels in series with A-17 first, followed by A-18, followed by A-19	S-120, S-130	BAAQMD 8-47-301, see also Table IV--D	NMHC in A-17 outlet	Replace carbon when NMHC removal efficiency is less than 90% and NMHC concentration is 10 ppmv or greater

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-18	Carbon Adsorber (three vessels in series with A-17 first, followed by A-18, followed by A-19	S-120, S-130	BAAQMD 8-47-301, see also Table IV-D	NMHC in A-17 outlet	Replace carbon when NMHC removal efficiency is less than 90% and NMHC concentration is 10 ppmv or greater
A-19	Carbon Adsorber (three vessels in series with A-17 first, followed by A-18, followed by A-19	S-120, S-130	BAAQMD 8-47-301, see also Table IV-D	NMHC in A-17 outlet	Replace carbon when NMHC concentration is 6 ppmv or greater
A-20	Carbon Adsorber (two vessels in series)	S-69, S-70, S-71, S-72, S-74, S-123, S-140, S-141, S-142, S-145, S-146, S-151, S-155, S-156, S-157	BAAQMD 8-5-301, see also Tables IV-F, IV-G, and IV-H	NMHC in A-20 inlet and outlet	Replace carbon when NMHC removal efficiency is less than 90% and NMHC concentration is 10 ppmv or greater
A-21	Carbon Adsorber (two vessels in series)	S-69, S-70, S-71, S-72, S-74, S-123, S-140, S-141, S-142, S-145, S-146, S-151, S-155, S-156, S-157	BAAQMD 8-5-301, see also Tables IV-F, IV-G, and IV-H	NMHC in A-21 outlet	Replace carbon when NMHC concentration is 6 ppmv or greater
A-50	Water Mist System	S-50	BAAQMD 6-301, see also Table IV-E	Wet waste as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-111	Water Spray System	S-111	BAAQMD 6-301, see also Table IV-I	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour

II. Equipment

Table II B – Abatement Devices

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
A-112	Water Spray System	S-112	BAAQMD 6-301, see also Table IV-J	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-113	Water Spray System	S-113	BAAQMD 6-301, see also Table IV-K	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-114	Water Spray System	S-114	BAAQMD 6-301, see also Table IV-L	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-115	Water Spray System	S-115	BAAQMD 6-301, see also Table IV-M	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-116	Water Spray System	S-116	BAAQMD 6-301, see also Table IV-N	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-117	Water Spray Truck	S-117	BAAQMD 6-301, see also Table IV-O	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour
A-118	Water Spray System	S-118	BAAQMD 6-301, see also Table IV-P	Wet as necessary to prevent particulate emissions	Ringelmann #1, < 3 minutes per hour

III. GENERALLY APPLICABLE REQUIREMENTS

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

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

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

The full language of SIP requirements is on EPA Region 9's website. The address is:

http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions

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 a 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 (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	General Requirements (12/19/12, effective 8/31/16)	Y
BAAQMD 2-1-429	Federal Emissions Statement (12/21/04)	Y
BAAQMD Regulation 2, Rule 5	New Source Review of Toxic Air Contaminants (12/7/16)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (6/19/13)	N

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter and Visible Emissions (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
SIP Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95)	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 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants - Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants - Lead (9/2/81)	Y

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
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 Code of Regulations Title 17, Section 93105	Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations (10/8/02)	N
California Code of Regulations Title 17, Section 93106	Asbestos Airborne Toxic Control Measure for Surfacing Applications (7/16/01)	N
California Code of Regulations Title 17, Section 93115	Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11)	N
California Code of Regulations Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11)	N
California Health and Safety Code Section 41750 et seq.	Portable Equipment	N
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (4/9/04)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/04)	Y
EPA Regulation 40 CFR 82	Protection of Stratospheric Ozone (2/21/95)	
Subpart F, 40 CFR 82.154	Prohibitions	Y
Subpart F, 40 CFR 82.156	Leak Repair	Y
Subpart F, 40 CFR 82.158	Standards for Recycling and Recovery Equipment	Y
Subpart F, 40 CFR 82.161	Certification of Technicians	Y
Subpart F, 40 CFR 82.162	Certification by Owners of Recovery and Recycling Equipment	Y
Subpart F, 40 CFR 82.166	Records of Refrigerant	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:

http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California&cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions

All other text may be found in the regulations themselves.

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/4/11)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of in-operation > 24 hours	Y	
1-523.2	Limit on duration of in operation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of in-operation, 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	
1-523.3	Reports of Violations	Y	

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	**Organic Compounds - Solid Waste Disposal Sites (6/15/05)**		
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	Record keeping Requirement	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-404	Less than Continuous Operation Petition Contents	Y	
8-34-404.1	Monitoring requirements for individual gas collection system components that are subject to less than continuous operation provisions	Y	
8-34-404.2	Map showing components that are operating less than continuously	Y	
8-34-404.3	Operating, maintenance, and inspection schedule for components that are operating less than continuously	Y	
8-34-404.4	Operating conditions for components that are operating less than continuously	Y	

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-404.5	Renewal requirements apply whenever information submitted pursuant to 8-34-404.1 changes	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.5	Record keeping requirements for components subject to Section 404 less than continuous operating provisions	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)**		
9-8-302	Emission Limits – Waste Derived Fuel Gas	N	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	N	
9-8-302.3	CO Emission Limit	Y	

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Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
SIP Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)**		
9-8-302	Emission Limits- Waste Derived Fuel Gas	Y	
9-8-302.1	Lean Burn Engines: NOx Emission Limit	Y	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/98)**		
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)	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 Part 60, Subpart WWW	**Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (4/10/00)**		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Comply with paragraph (b)(2) or calculate NMOC emission rate	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

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

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S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(b) or (e)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.758	Recordkeeping Requirements	Y	
60.758(b)	Control Equipment Records (Control Device Vendor Specifications) Note: Subsections 1 through 4 do not apply.	Y	
60.758(c)	Records of parameters monitored pursuant to 60.756 (e)	Y	
60.758(e)	Records of any exceedance of 60.753(e) or (f)	Y	
40 CFR Part 62 Subpart F	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (6/9/03)**		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources	Y	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (4/20/06)**		
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/03)**		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	

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Table IV – A
Source-Specific Applicable Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
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	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
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	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition # 5771			
Part 1	Fuel Restrictions (Cumulative Increase)	Y	
Part 2	Diverter Valve Requirement (Regulation 8-34-301)	Y	
Part 3	Gas Flow Meter Requirement (Cumulative Increase and Regulation 8-34-508)	Y	
Part 4	NOx Emissions Limit (BACT, Offsets)	Y	
Part 5	CO Emissions Limit (BACT)	Y	
Part 6	NMOC Emissions Limit (BACT and Regulation 8-34-301.4)	Y	
Part 7	Annual Source Test Requirement (BACT and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)	Y	

IV. Source-Specific Applicable Requirements

Table IV – A
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S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 8	Heat Input Limitation (Regulation 2-1-301, Offsets)	Y	
Part 9	Daily Record Keeping Requirement (Offsets, Cumulative Increase, and Regulations 2-1-301, 2-6-501, and 8-34-301)	Y	
Part 10	Engine Temperature Limit and Temperature Monitoring Requirements (Regulations 8-34-301, 8-34-501.11, and 8-34-509)	Y	

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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 (**5/4/11**)**		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of in operation > 24 hours	Y	
1-523.2	Limit on duration of in operation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of in operation, 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	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation (applies to A-8 Flare only)	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to A-8 Flare only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	**Organic Compounds – Solid Waste Disposal Sites (6/15/05)**		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	

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Table IV – B
Source-Specific Applicable Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-117	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	
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	

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S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Monitoring requirements for individual gas collection system components that are subject to less than continuous operation provisions	Y	
8-34-404.2	Map showing components that are operating less than continuously	Y	
8-34-404.3	Operating, maintenance, and inspection schedule for components that are operating less than continuously	Y	
8-34-404.4	Operating conditions for components that are operating less than continuously	Y	
8-34-404.5	Renewal requirements apply whenever information submitted pursuant to 8-34-404.1 changes	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	
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	

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Table IV – B
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S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
8-34-501.5	Record keeping requirements for components subject to Section 404 less than continuous operating provisions	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	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitations (applies to flares only)	Y	

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Table IV – B
Source-Specific Applicable Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/98)**		
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 performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60, Subpart WWW	**Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (4/10/00)**		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	

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S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a Collection and Control System Design Plan	Y	
60.752 (b)(2)(i)(A)	The collection and control system in the Design Plan shall comply with 60.752(b)(2)(ii)	Y	
60.752 (b)(2)(i)(B)	Design Plan shall include all proposed alternatives to 60.753 through 60.758	Y	
60.752 (b)(2)(i)(C)	Design Plan shall conform to 60.759 (active collection system) or demonstrate sufficiency of proposed alternatives	Y	
60.752 (b)(2)(ii)	Install a collection and control system	Y	
60.752 (b)(2)(iii)	Route collected gases to a control system.	Y	
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O_2, dry basis, as demonstrated by initial performance test within 180 days of start-up.	Y	
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	
60.752(c)	Title V Operating Permit Requirements	Y	
60.752(c)(1)	Subject date is June 10, 1996 for Landfills new or modified between May 30, 1991 and March 12, 1996	Y	
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(a)	Operate a Collection System in each area or cell in which:	Y	
60.753(a)(1)	Active Cell – solid waste in place for 5 years or more	Y	
60.753(a)(2)	Closed/Final Grade – solid waste in place for 2 years or more	Y	
60.753(b)	Operate each wellhead under negative pressure unless:	Y	
60.753(b)(1)	Fire or increased well temperature or to prevent fire	Y	

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Table IV – B
Source-Specific Applicable Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.753(b)(2)	Use of geomembrane or synthetic cover (subject to alternative pressure limits)	Y	
60.753(b)(3)	Decommissioned well after approval received for shut-down	Y	
60.753(c)	Operate each wellhead at < 55 °C, and either < 20% N_2 or < than 5% O_2 (or other approved alternative levels)	Y	
60.753(c)(1)	N_2 determined by Method 3C	Y	
60.753(c)(2)	O_2 determined by 3A and as described in (2)(i-v)	Y	
60.753(d)	Surface Leak Limit is less than 500 ppm methane above background at landfill surface. This section also describes some surface monitoring procedures.	Y	
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii). If collection or control system inoperable, shut down gas mover and close all vents within 1 hour	Y	
60.753(f)	Operate the control system at all times when collected gas is routed to the control system	Y	
60.753(g)	If monitoring demonstrates that 60.753(b), (c), or (d) are not being met, corrective action must be taken	Y	
60.754	Test Methods and Procedures	Y	
60.754(c)	For PSD, NMOC emissions shall be calculated using AP-42	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(a)	For Gas Collection Systems	Y	
60.755(a)(1)	Calculation procedures for maximum expected gas generation flow rate	Y	
60.755 (a)(1)(i)	Equation for unknown year-to-year waste acceptance rate	Y	
60.755 (a)(1)(ii)	Equation for known year-to-year waste acceptance rate	Y	
60.755(a)(2)	Vertical wells and horizontal collectors shall be of sufficient density to meet all performance specifications	Y	

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S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

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

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.755(d)(2)	Calibrated with methane diluted to 500 ppmv in air	Y	
60.755(d)(3)	Use Method 21, Section 4.4 instrument evaluation procedures	Y	
60.755(d)(4)	Calibrate per Method 21, Section 4.2 immediately before monitoring.	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems.	Y	
60.756	Monitoring of Operations	Y	
60.756(a)	For active collection systems, install wellhead sampling port	Y	
60.756(a)(1)	Measure gauge pressure in wellhead on a monthly basis	Y	
60.756(a)(2)	Measure nitrogen or oxygen concentration in wellhead gas on a monthly basis.	Y	
60.756(a)(3)	Measure temperature of wellhead gas on a monthly basis.	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	
60.756(b)(1)	Temperature monitor and continuous recorder (not required for boilers and process heaters with capacity > 44 MW)	Y	
60.756(b)(2)	Device that records flow to or bypass of the control device (i or ii below)	Y	
60.756 (b)(2)(i)	Install, calibrate, and maintain a device that records flow to the control device at least every 15 minutes.	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.756(f)	Monitor surface on a quarterly basis.	Y	
60.757	Reporting Requirements	Y	
60.757(a)(3)	Amended Design Capacity Report required within 90 days of receiving a permitted increase in design capacity or within 90 days of an annual density calculation that results in a design capacity over the thresholds.	Y	
60.757(b)(3)	Sites with collection and control systems operating in compliance with this subpart are exempt from (b)(1) and (b)(2) above.	Y	
60.757(c)	Submit a Collection and Control System Design Plan within 1 year of first NMOC emission rate report showing NMOC > 50 MG/year, except as follows	Y	

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

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

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.759(a)(3)	All gas producing areas shall be controlled except as described below (i-iii).	Y	
60.759(b)	Gas Collection System Components	Y	
60.759(b)(1)	Must be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved material and of suitable dimensions to convey projected gas amounts and withstand settling, traffic, etc.	Y	
60.759(b)(2)	Collectors shall not endanger liner, shall manage condensate and leachate, and shall prevent air intrusion and surface leaks.	Y	
60.759(b)(3)	Header connection assemblies shall include positive closing throttle valve, seals and couplings to prevent leaks, at least one sampling port, and shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved materials.	Y	
60.759(c)	Gas Mover Equipment shall be sized to handle maximum expected gas generation rate over the intended period of use.	Y	
60.759(c)(1)	For existing systems, flow data shall be used to project maximum flow rate.	Y	
60.759(c)(2)	For new systems, gas generation rate shall be calculated per 60.755(a)(1)	Y	
40 CFR Part 62 Subpart F	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (6/9/03)**		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources	Y	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (4/20/06)**		
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/03)**		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
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	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
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	
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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition #25293			
Part 1	Waste acceptance rate limits (Regulation 2-1-301, Cumulative Increase)	Y	
Part 2	Particulate emission control measures (Regulations 2-1-403, 6-1-301, and 6-1-305)	Y	
Part 3	Fugitive non-methane organic compounds (NMOC) emissions limit (Cumulative Increase and Regulation 2-1-301)	Y	
Part 4	Concentration limit of NMOC from S-15 (Cumulative Increase and Regulation 2-1-301)	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 (Regulations 8-34-301.1, 8-34-404, 8-34-305, 8-34-414, 8-34-501.5 and 8-34-505)	Y	
Part 8	Flare operating restrictions and heat input limits (Cumulative Increase and Regulations 2-1-301 and 8-34-301)	Y	
Part 9	Flare temperature limit (Regulations 2-5-301, 8-34-301.3, 8-34-501.3, and 40 CFR 60.756(b)(1))	Y	
Part 10	Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302 and Cumulative Increase)	Y	
Part 11	Annual source test (Regulations 8-34-301.3 and 8-34-412 and CCR 95464(b)(2)(A)(1))	Y	
Part 12	Annual landfill gas characterization test (Regulation 2, Rule 5, AB-2588 Air Toxics Hot Spots Act, and Regulation 8-34-412)	Y	
Part 13	Toxic compound concentration limits (Regulation 2-5-302 and AB-2588 Air Toxics Hot Spots Act)	N	
Part 14	Record keeping requirements (Cumulative Increase, Regulations 2-1-301, 2-5-302, 2-6-501, 6-1-301, 6-1-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)	Y	
Part 15	Reporting periods and report submittal due dates for the Regulation 8, Rule 34 report (Regulation 8-34-411 and 40 CFR 63.1980(a))	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 16	NOx emission limit from Flare A-120 (Cumulative Increase)	Y	
Part 17	CO emission limit from Flare A-120 (Cumulative Increase)	Y	
Part 18	A-120 shall comply with NMOC emission limit (Cumulative Increase, 8-34-301.3; 40 CFR 60.752(b)(2)(iii)(B))		
Part 19	Record keeping of all planned and unanticipated shut downs of A-120 and of temperature excursions. (2-6-501, 8-34-501, 40 CFR 60.758)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 1	**General Provisions and Definitions (5/4/11)**		
1-523	Parametric Monitoring and Record keeping Procedures	N	
1-523.1	Reporting requirement for periods of in-operation > 24 hours	Y	
1-523.2	Limit on duration of in operation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of in-operation, 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	
1-523.3	Reports of Violations	Y	
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Regulation 8, Rule 34	**Organic Compounds - Solid Waste Disposal Sites (6/15/05)**		
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	Record keeping Requirement	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.4	Limits for Other Emission Control Systems	Y	
8-34-404	Less than Continuous Operation Petition Contents	Y	
8-34-404.1	Monitoring requirements for individual gas collection system components that are subject to less than continuous operation provisions	Y	
8-34-404.2	Map showing components that are operating less than continuously	Y	
8-34-404.3	Operating, maintenance, and inspection schedule for components that are operating less than continuously	Y	
8-34-404.4	Operating conditions for components that are operating less than continuously	Y	
8-34-404.5	Renewal requirements apply whenever information submitted pursuant to 8-34-404.1 changes	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-501	Operating Records	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.4	Testing	Y	
8-34-501.5	Record keeping requirements for components subject to Section 404 less than continuous operating provisions	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.11	Records of Key Emission Control System Operating Parameters	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-508	Gas Flow Meter	Y	
8-34-509	Key emission control system operating parameters	Y	
BAAQMD Regulation 9, Rule 1	**Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)**		
9-1-301	Limitations on Ground Level Concentrations	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
9-1-302	General Emission Limitations	Y	
BAAQMD Regulation 9, Rule 2	**Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)**		
9-2-301	Limitations on Hydrogen Sulfide	N	
BAAQMD Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)**		
9-8-302	Emission Limits – Waste Derived Fuel Gas	N	
9-8-302.1	Lean-Burn Engines: NOx Emission Limit	N	
9-8-302.3	CO Emission Limit	Y	
SIP Regulation 9 Rule 8	**Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)**		
9-8-302	Emission Limits- Waste Derived Fuel Gas	Y	
9-8-302.1	Lean Burn Engines: NOx Emission Limit	Y	
40 CFR Part 60, Subpart A	**Standards of Performance for New Stationary Sources – General Provisions (5/4/98)**		
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)	Good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operation before 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	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR Part 60, Subpart WWW	**Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (4/10/00)**		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Comply with paragraph (b)(2) or calculate NMOC emission rate	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a collection and control system design plan	Y	
60.752 (b)(2)(ii)	Install a collection and control system	Y	
60.752 (b)(2)(iii)	Route collected gases to a control system	Y	
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O2, dry basis	Y	
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii)	Y	
60.753(f)	Operate the control system at all times when collected gas is Routed to the control system	Y	
60.754	Test Methods and Procedures	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems	Y	
60.756	Monitoring of Operations	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.756(d)	Approval of other control devices	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.757	Reporting Requirements	Y	
60.757(c)	Submit a Collection and Control System Design Plan	Y	
60.757(e)	Submit Equipment Removal Report 30 days prior to removal or cessation of operation of the control equipment	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1), (f)(2), and (f)(3)	Y	
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(b) or (e)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.758	Recordkeeping Requirements	Y	
60.758(b)	Control Equipment Records (Control Device Vendor Specifications) Note: Subsections 1 through 4 do not apply.	Y	
60.758(c)	Records of parameters monitored pursuant to 60.756 (e)	Y	
60.758(e)	Records of any exceedance of 60.753(e) or (f)	Y	
40 CFR Part 62 Subpart F	**Approval and Promulgation of State Plans for Designated Facilities and Pollutants (6/9/03)**		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources	Y	
40 CFR Part 63, Subpart A	**National Emission Standards for Hazardous Air Pollutants: General Provisions (4/20/06)**		
63.4	Prohibited activities and circumvention	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR Part 63, Subpart AAAA	**National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/03)**		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
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	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
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	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition # 17812			
Part 1	Fuel Restrictions (Offsets and Cumulative Increase)	Y	
Part 2	Heat Input Limits (Offsets and Cumulative Increase)	Y	

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 3	Continuous operating requirement (Regulation 8-34-301.1)	Y	
Part 4	Diverter Valve Requirement (Regulation 8-34-301)	Y	
Part 5	NO_x Emission Limit (BACT, Offsets)	Y	
Part 6	CO Emission Limit (BACT)	Y	
Part 7	Gas flow meter and recorder requirement (Offsets and Cumulative Increase)	Y	
Part 8	Annual source test requirement (BACT and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)	Y	
Part 9	Record keeping requirements (BACT, Offsets, Cumulative Increase, and Regulations 2-1-301, 2-6-501, and 8-34-501)	Y	
Part 10	Engine Temperature Limit and Temperature Monitoring Requirements (Regulations 8-34-301, 8-34-501.11, 8-34-509)	Y	

IV. Source-Specific Applicable Requirements

Table IV – D
Source-Specific Applicable Requirements
S-120 Air Stripper QED 6I Tray Model; and
S-130 Standby Air Stripper QED 4-Tray Model; abated by:
A-14 Carbon Adsorber; A-15 Carbon Adsorber and A-16 Carbon Adsorber; or
A-17 Carbon Adsorber; A-18 Carbon Adsorber and A-19 Carbon Adsorber

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 47	**Air Stripping and Soil Vapor Extraction Operations (6/15/05)**		
8-47-301	Emission Control Requirement, Specific Compounds	Y	
8-47-302	Organic Compounds	Y	
8-47-501	Records	Y	
8-47-501.1	Water Analysis Records	Y	
8-47-501.2	Vapor Monitoring Results	Y	
8-47-601	Air Stripper Water Sampling	Y	
BAAQMD Condition #23316			
Part 1	Wastewater throughput limits (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 2	Abatement requirement for POC emissions (Cumulative Increase and Regulation 2, Rule 5 and 8-47-301-302)	Y	
Part 3	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 4	Replacement requirements for second to last Carbon Adsorber (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 5	Replacement requirements for last Carbon Adsorber (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 6	Requirements for Carbon Replacement Inventory (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 7	Wastewater monitoring requirements (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 8	Methane and non-methane measurement method, and Carbon Adsorber monitoring requirements (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 9	Record keeping requirements (Cumulative Increase and Regulation 2, Rule 5 and 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – E
Source-Specific Applicable Requirements
S-50 SOLID WASTE TRANSFER STATION; AND A-50 WATER MIST SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #22792			
Part 1	Waste Acceptance Rate Limits (Cumulative Increase)	Y	
Part 2	Requires That Mixed Wastes, Green Material and Wood Waste Be Removed Within 48 Hours of Being Received (Regulation 1-301)	Y	
Part 3	Visible Emissions – Particulate Fallout Restrictions for Operations at the Transfer Station (Regulations 1-301, 6-1-301 and 6-1-305)	Y	
Part 4	Visible Emissions – Maintenance and Cleaning Requirements for Roadways (Regulations 6-1-301 and 6-1-305)	Y	
Part 5	Requires that, within 90 days after start-up of S50 transfer station, waste is no longer accepted at S-15 landfill. (Cumulative Increase and Regulation 2-2-410)	Y	
Part 6	Limitations on the Vehicle Traffic to S-50. (BACT and Cumulative Increase)	Y	
Part 7	Recordkeeping Requirements for Waste Accepted and Vehicle Traffic to S-50 (Cumulative Increase, Regulations 2-6-501, and 6-1-305)	Y	

IV. Source-Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #2; S-141 INLET FEED TANK; S-156 THREE (3) DAY TANKS; EACH ABATED BY A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 5	**Organic Compounds – Storage of Organic Liquids (10/18/06)**		
8-5-301	Vapor Loss Control Device Requirement	N	
8-5-306	Approved Emission Control System Requirement	N	
8-5-307	Requirements for Fixed Roof Tanks, Pressure Tanks and Blanketed Tanks	N	
8-5-307.1	Fixed roof tank shell condition	N	
8-5-307.2	Pressure tank criteria	N	
8-5-307.3	Sealing mechanism criteria	N	
8-5-328	Tank Degassing Requirements	N	
8-5-328.1	Control requirement for tanks > 75 cubic meters	N	
8-5-328.2	Tank degassing prohibitions	N	
8-5-328.3	Notification and approval requirement	N	
8-5-331	Tank Cleaning Requirements	N	
8-5-331.1	Agents used to clean tank interior	N	
8-5-331.2	Steam cleaning limitations	N	
8-5-331.3	Steam cleaning criteria	N	
8-5-332	Sludge Handling Requirements	N	
8-5-332.1	Sludge container leak limits	N	
8-5-322.2	Sludge container gap requirements	N	
SIP Regulation 8 Rule 5	Organic Compounds- Storage of Organic Liquids (6/5/2003)	Y	
8-5-301	Vapor Loss Control Device Requirement	Y	
8-5-306	Approved Emission Control System Requirement	Y	
8-5-307	Requirements for Pressure Tanks and Blanketed Tanks	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Control requirements for tanks > 75 cubic meters	Y	
8-5-328.2	Tank degassing prohibitions	Y	
BAAQMD Condition #23220			

IV. Source-Specific Applicable Requirements

Table IV – F
Source-Specific Applicable Requirements
S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #2; S-141 INLET FEED TANK; S-156 THREE (3) DAY TANKS; EACH ABATED BY A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 1	Wastewater throughput limits (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 2	Abatement requirement for POC emissions (Cumulative Increase and Regulation 2, Rule 5 and 8-5-301)	Y	
Part 3	Operating requirements for Oil/Water Separators (Regulations 8-8-301 and 8-8-303)	Y	
Part 4	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 5	Replacement requirements for second to last Carbon Adsorber (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 6	Replacement requirements for last Carbon Adsorber (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 7	Wastewater monitoring requirements (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 8	Methane and non-methane measurement method, and Carbon Adsorber monitoring requirements (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 9	Record keeping requirements (Cumulative Increase and Regulation 2, Rule 5 and 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – G
Source-Specific Applicable Requirements
S-71 PRIMARY OIL WATER SEPARATOR; S-72 SECONDARY SEPARATOR/EMULSION BREAKER; AND S-157 FILTER PRESS SURGE TANK; ABATED BY: A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 8	**Organic Compounds – Wastewater (Oil-Water) Separators (9/15/04)**		
8-8-301	Waste Water Separators Greater than 760 Liters Per Day and Smaller than 18.9 liters per second	Y	
8-8-301.3	OC Vapor Recovery System	N	
8-8-303	Gauging and Sampling Devices	Y	
8-8-304	Sludge-dewatering Unit	N	
8-8-305	Oil-Water Separator And/Or Air Floatation Unit Slop Oil Vessels	N	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	N	
8-8-503	Inspection and Repair Records	Y	
8-8-504	Portable Hydrocarbon Detector	Y	
SIP Regulation 8, Rule 8	**Organic Compounds – Wastewater (Oil-Water) Separators (8/29/94)**	Y	
8-8-301.3	OC Vapor Recovery System	Y	
8-8-304	Sludge-dewatering Unit	Y	
8-8-305	Oil-Water Separator And/Or Air Floatation Unit Slop Oil Vessels	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
BAAQMD Condition #23220			
Part 1	Wastewater throughput limits (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 2	Abatement requirement for POC emissions (Cumulative Increase and Regulation 2, Rule 5 and 8-5-301)	Y	
Part 3	Operating requirements for Oil/Water Separators (Regulations 8-8-301 and 8-8-303)	Y	
Part 4	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 9	Record keeping requirements (Cumulative Increase and Regulation 2, Rule 5 and 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – H
Source-Specific Applicable Requirements
S-74 INCLINED PLATE CLARIFIER; S-140 CLARIFIER HOLDING TANKS; S-123 AIR STRIPPER FEED TANK; S-145 E-22R AREA TANKS; S-146 PRETREATMENT INLET FEED TANK; S-155 OIL SLUDGE THICKENER; S-142 WASTE OIL TANK; S-151 WASTE OIL TANK; ABATED BY: A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 8, Rule 2	**Organic Compounds-Miscellaneous Operation (7/20/05)**		
8-2-301	Miscellaneous Operations	Y	
BAAQMD Condition #23220			
Part 1	Wastewater throughput limits (Cumulative Increase and Regulation 2, Rule 5)	Y	
Part 2	Abatement requirement for POC emissions (Cumulative Increase and Regulation 2, Rule 5 and 8-5-301)	Y	
Part 4	POC leak limit for valves, flanges, and pumps (Cumulative Increase)	Y	
Part 9	Record keeping requirements (Cumulative Increase and Regulation 2, Rule 5 and 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – I
Source-Specific Applicable Requirements
S-111 CONCRETE CRUSHER; AND A-111 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23350			
Part 1	Permit requirement for future power source (Regulation 2-1-301 and 302)	Y	
Part 2	Concrete Throughput Limit (Cumulative Increase)	Y	
Part 3	Abatement Requirement (Cumulative Increase)	Y	
Part 4	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 5	Dust Suppressant Requirement on Unpaved Roads (Cumulative Increase)	N	
Part 6	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – J
Source-Specific Applicable Requirements
S-112 CRUSHED CONCRETE SCREENER; AND A-112 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23351			
Part 1	Permit requirement for future power source (Regulation 2-1-301 and 302)	Y	
Part 2	Concrete Throughput Limit (Cumulative Increase)	Y	
Part 3	Abatement Requirement (Cumulative Increase)	Y	
Part 4	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 5	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – K
Source-Specific Applicable Requirements
S-113 CONCRETE/ASPHALT STORAGE PILES; AND A-113 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23352			
Part 1	Concrete and Asphalt Throughput Limits (Cumulative Increase)	Y	
Part 2	Abatement Requirement (Cumulative Increase)	Y	
Part 3	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 4	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – L
Source-Specific Applicable Requirements
S-114 CONVEYORS (CRUSHED CONCRETE); AND A-114 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23353			
Part 1	Permit requirement for future power source (Regulation 2-1-301 and 302)	Y	
Part 2	Concrete Throughput Limit (Cumulative Increase)	Y	
Part 3	Abatement Requirement (Cumulative Increase)	Y	
Part 4	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 5	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – M
Source-Specific Applicable Requirements
S-115 WOOD/YARD WASTE SHREDDER (TUB GRINDER); AND A-115 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23354			
Part 1	Permit requirement for future power source (Regulation 2-1-301 and 302)	Y	
Part 2	Wood Waste Throughput Limit (Cumulative Increase)	Y	
Part 3	Shredder Abatement Requirement (Cumulative Increase)	Y	
Part 4	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 5	Unloading, stockpiling and loading Abatement Requirement (Cumulative Increase)	Y	
Part 6	Permit requirement for any required future modifications to controls emissions (Regulation 1-301)	N	
Part 7	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – N
Source-Specific Applicable Requirements
S-116 WOOD WASTE SCREENER; AND A-116 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23355			
Part 1	Permit requirement for power source for this unit (Regulation 2-1-301 and 302)	Y	
Part 2	Wood Waste Throughput Limit (Cumulative Increase)	Y	
Part 3	Abatement Requirement (Cumulative Increase)	Y	
Part 4	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 5	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – O
Source-Specific Applicable Requirements
S-117 COMPOSTING OPERATION; AND A-117 WATER SPRAY TRUCK

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23356			
Part 1	Wood Waste Throughput Limit (Cumulative Increase)	Y	
Part 2	Abatement Requirement (Cumulative Increase)	Y	
Part 3	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301 and Regulation 1-301)	Y	
Part 4	Dust Suppressant and Watering Requirements on Unpaved Roads (Cumulative Increase)	Y	
Part 5	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	Y	

IV. Source-Specific Applicable Requirements

Table IV – P
Source-Specific Applicable Requirements
S-118 CRUSHING OF ASPHALT DEBRIS; AND A-118 WATER SPRAY SYSTEM

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Regulation 6, Rule 1	**Particulate Matter, General Requirements (12/5/07)**		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-401	Appearance of Emissions	N	
SIP Regulation 6	**Particulate Matter and Visible Emissions (9/4/98)**		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-401	Appearance of Emissions	Y	
BAAQMD Condition #23357			
Part 1	Asphalt Throughput Limit (Cumulative Increase)	Y	
Part 2	Abatement Requirement (Cumulative Increase)	Y	
Part 3	Visible Emissions Limitation (Regulation 6-1-301, SIP Regulation 6-301, and Regulation 1-301)	Y	
Part 4	Recordkeeping Requirement (Cumulative Increase and Regulation 2-6-501)	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 # 5771
For: S-5, INTERNAL COMBUSTION LEAN BURN ENGINE; and
S-6, INTERNAL COMBUSTION LEAN BURN ENGINE:

1. The Internal Combustion Engines (S-5 and S-6) shall be fired exclusively on landfill gas. (basis: Cumulative Increase)

2. The facility has the option of venting landfill gas to either the engines S-5, S-6, S-37 or the Landfill Gas Flares (A-8 or A-120), or any combination of these devices. The A-8 flare shall only be operated as a back-up to A-120. The A-8 and A-120 flares shall not operate concurrently, except for short periods of time when necessary during the diversion of gas from one flare to the other flare. In the event of an engine shutdown, the landfill gas that was being burned at that engine shall be automatically diverted to a flare. An automatically controlled landfill gas valve shall be installed and maintained to insure that landfill gas is immediately made available for flaring to the Flares, A-8 and A-120). Under no circumstances shall raw landfill gas be vented to the atmosphere. This limitation does not apply to unavoidable landfill gas emissions that occur during control 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 leaks that do not exceed the limits specified in 8-34-301.2. (basis: Regulation 8-34-301)

3. District approved flow meters, to measure landfill gas flow into each engine, shall be installed prior to any operation and maintained in good working condition. (basis: Cumulative Increase and Regulation 8-34-508)

4. Nitrogen Oxide (NO_X) emissions from each Internal Combustion Engine (S-5 and S-6) shall not exceed 63 ppmv, corrected to 15% O_2, dry basis. (basis: BACT, Offsets)

5. Carbon Monoxide (CO) emissions from each Internal Combustion Engine (S-5 and S-6) shall not exceed 376 ppmv, corrected to 15% O_2, dry basis. (basis: BACT)

6. Each engine shall comply with the NMOC limit in Regulation 8-34-301.4. (basis: BACT and Regulation 8-34-301.4)

VI. Permit Conditions

Condition # 5771
For: S-5, INTERNAL COMBUSTION LEAN BURN ENGINE; and
S-6, INTERNAL COMBUSTION LEAN BURN ENGINE:

7. In order to demonstrate compliance with parts #4, #5, and #6 above, Regulation 8, Rule 34, Section 301.4, and Regulation 9, Rule 8, Sections 302.1 and 302.3, the Permit Holder shall ensure that a District approved source test is conducted annually on each Internal Combustion Engine (S-5 and S-6). The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date. The annual source tests shall determine the following:
   a. landfill gas flow rate to each engine (dry basis);
   b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), and non-methane organic compounds (NMOC) in the landfill gas;
   c. exhaust gas flow rate from each engine (dry basis);
   d. concentrations (dry basis) of NO_x, CO, NMOC, SO_2 and O_2 in the exhaust gas from each engine;
   e. NMOC destruction efficiency achieved by each engine; and
   f. average cylinder temperature range (or exhaust temperature range measured at an APCO approved location) for each engine that is required to maintain compliance with Parts 4, 5, and 6 above and Regulation 8-34-301.4.

   (basis: BACT, Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)

8. The heat input to each internal combustion engine shall not exceed 285.6 million BTU per day nor 104,250 million BTU in any consecutive 12 month period. (basis: Regulation 2-1-301, Offsets)

VI. Permit Conditions

Condition # 5771
For: S-5, INTERNAL COMBUSTION LEAN BURN ENGINE; and
S-6, INTERNAL COMBUSTION LEAN BURN ENGINE:

9. Daily records shall be maintained, in a District approved logbook, for the hours of operation of the engines and total amount of landfill gas flow through each engine. On a monthly basis, summarize all daily records for each engine. On a monthly basis, calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentration in the landfill gas (as measured during the most recent source test), a high heating value for methane of 1013 BTU/ft^3 at 60 degrees F, and the amount of landfill gas burned in each engine. The logbook shall be kept on site and shall be made available to the District staff upon request. All records shall be retained for at least 5 years from the date of entry. Heat Input (MM BTU/day) = Daily Fuel Flow Rate (ft^3/day at 60 °F and 14.7 psia) * Methane Concentration (%) * Gross Methane Heat Content (1013 BTU/ft^3 CH_4) * Conversion Factor (1E-8) (basis: Offsets and Cumulative Increase and Regulations 2-1-301, 2-6-501, and 8-34-501)

10. The average cylinder temperature for each Internal Combustion Engine shall be maintained at the temperature determined by the most recent source test, plus or minus 20 degrees F (or other appropriate range established by the source test) and averaged over 3 hours, during all times that the engine is operated. In order to demonstrate compliance with this condition, each engine shall be equipped with at least one thermocouple that will continuously monitor engine cylinder temperature (or engine exhaust temperature at an APCO approved location). The engine cylinder temperature (or average cylinder temperature if more than one thermocouple is used) shall be continuously recorded. The appropriate temperature range for each engine that is established by the source tests shall be added to this part in accordance with the procedures identified in Regulations 2-6-414 or 2-6-415. (basis: Regulations 8-34-301, 8-34-501.11 and 8-34-509)

VI. Permit Conditions

Condition # 17812
For: S-37, INTERNAL COMBUSTION LEAN BURN ENGINE

1. The S-37 Internal Combustion Engine shall be fired on landfill gas exclusively. (basis: Offsets and Cumulative Increase)

2. The heat input to S-37 shall not exceed 251.9 million BTUs per day nor 91,951 million BTUs during any consecutive 12-month period. (basis: Offsets and Cumulative Increase)

3. The S-37 Internal Combustion Engine shall operate continuously during all times that landfill gas is vented to the engine. (basis: Regulation 8-34-301.1)

4. The facility has the option of venting landfill gas to either the engines S-5, S-6, S-37 or the Landfill Gas Flares (A-8 or A-120) or any combination of these devices. . The A-8 flare shall only be operated as a back-up to A-120. The A-8 and A-120 flares shall not operate concurrently, except for short periods of time when necessary during the diversion of gas from one flare to the other flare. In the event of an engine shutdown, the landfill gas that was being burned at that engine shall be automatically diverted to a flare. An automatically controlled landfill gas valve shall be installed and maintained to insure that landfill gas is immediately made available for flaring to the Flares, (A-8 and A-120). Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during control system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for inadvertent component leaks that do not exceed the limits specified in 8-34-301.2. (basis: Regulation 8-34-301)

5. S-37 shall emit no more than 63 ppmv of nitrogen oxides on dry basis, corrected to 15% oxygen. (basis: BACT, Offsets)

6. S-37 shall emit no more than 309 ppmv of carbon monoxide, dry basis, corrected to 15% oxygen. (basis: BACT)

7. In order to demonstrate compliance with part 2, the IC Engine shall be equipped with a gas flow meter and recorder that records the gas flow rate at least every 15 minutes. (basis: Offsets and Cumulative Increase)

VI. Permit Conditions

Condition # 17812
For: S-37, INTERNAL COMBUSTION LEAN BURN ENGINE

8. In order to demonstrate compliance with parts 5 and 6 above and Regulations 8-34-301.4, 9-8-302.1, and 9-8-302.3, the Permit Holder shall ensure that a District approved source test is conducted annually on the S-37 Internal Combustion Engine. The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date.
   a. landfill gas flow rate to the engine (dry basis);
   b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), and non-methane organic compounds (NMOC) in the landfill gas;
   c. exhaust gas flow rate from the engine (dry basis);
   d. concentrations (dry basis) of NO_x, CO, NMOC, , SO_2 and O_2 in the exhaust gas from the engine;
   e. the NMOC destruction efficiency achieved by the engine; and
   f. the average cylinder temperature range (or exhaust temperature range measured at an APCO approved location) for each engine that is required to maintain compliance with parts 5 and 6 above and Regulation 8-34-301.4.

   (basis: BACT, and Regulations 8-34-301.4, 8-34-412, 9-8-302.1, and 9-8-302.3)

9. The Permit Holder shall maintain the following records:
   a. Records of all start up and shut down dates and times and the reason for any shut downs for S-37.
   b. Records of landfill gas throughput to S-37.
   c. On a monthly basis calculate and record the maximum daily and total monthly heat input rate (in BTU) to each engine based on the average methane concentration in the landfill gas (as measured during the most recent source test), a high heating value for methane of 1013 BTU/ft^3 at 60 degrees F, and the amount of landfill gas burned in each engine.
   d. Records of all compliance demonstration test data.

   Heat Input (MM BTU/day) = Daily Fuel Flow Rate (ft^3/day at 60 °F and 14.7 psia) * Methane Concentration (%) * Gross Methane Heat Content (1013 BTU/ft^3 CH_4) * Conversion Factor (1E-8)

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Condition # 17812
For: S-37, INTERNAL COMBUSTION LEAN BURN ENGINE

All records shall be retained on site for a minimum of 5 years and shall be made available to District staff upon request. (basis: BACT, Offsets, Cumulative Increase, Regulation 2-1-301, 2-6-501 and Regulation 8-34-501)

10. The average cylinder temperature for the S-37 Internal Combustion Engine shall be maintained at the temperature determined by the most recent source test, plus or minus 20 degrees F (or other appropriate range established by the source test) and averaged over 3 hours, during all times that the engine is operated. In order to demonstrate compliance with this condition, the engine shall be equipped with at least one thermocouple that will continuously monitor engine cylinder temperature (or engine exhaust temperature at an APCO approved location). The engine cylinder temperature (or average cylinder temperature if more than one thermocouple is used) shall be continuously recorded. The appropriate temperature range for the engine that is established by the source tests shall be added to this part via an administrative amendment. (Basis: Regulations 8-34-301, 8-34-501.11 and 8-34-509)

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Condition # 25293

FOR: S-15 WEST CONTRA COSTA SANITARY LANDFILL (CLOSED CLASS I AND CLASS II WASTE DISPOSAL AREAS) – WASTE DECOMPOSITION PROCESS; EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM; ABATED BY A-8 LANDFILL GAS FLARE AND A-120 LANDFILL GAS FLARE

1. No waste shall be disposed of in the S-15 Class I or Class II Landfills. S-15 does not include the waste disposal activities associated with the Corrective Action Management Unit (CAMU), which are included under S-47. The total cumulative amount of all decomposable materials placed in the S-15 landfills shall not exceed 13.0 million tons. This amount includes 12.3 million tons in the Class II landfill at time of closure and 376,110 tons of decomposable materials in the Class I landfill. 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 21.47 million cubic yards. (Basis: Regulation 2-1-301, Cumulative Increase)

2. Water and/or dust suppressants shall be applied to all unpaved roadways 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, 6-1-301, and 6-1-305)

3. The owner/operator shall ensure that fugitive non-methane organic compounds (NMOC) emissions from S-15 do not exceed 15.8 tons (calculated as hexane) during any consecutive 12 month period. The owner/operator shall demonstrate compliance with this emission limit by complying with the landfill gas NMOC concentration limit in Part 4 and by complying with the landfill gas collection and control requirements specified in Parts 5-8. (Basis: Cumulative Increase and Regulation 2-1-301)

4. The concentration of total non-methane organic compounds (NMOC) in the combined landfill gas collected from S-15 shall not exceed 392 ppmv, measured as C6 or hexane, on a dry basis. (Basis: Cumulative Increase and Regulation 2-1-301)

5. S-15 shall be equipped with a landfill gas collection system, which shall be operated continuously as defined in Regulation 8-34-219, unless the owner/operator complies with all applicable provisions of Regulation 8, Rule 34, Section 113. All collected landfill gas shall be vented to properly operating abatement equipment including the Internal Combustion Engines (S-5, S-6, and S-37), the Landfill Gas Flares (A-8 and A-120), or a combination of these devices. Upon start-up of A-120, A-8 shall only be operated as a back-up to A-120. The

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flares shall not operate concurrently, except for short periods of time when necessary during the diversion of gas from one flare to the other flare. In the event of an engine shutdown, the landfill gas that was being burned at that engine shall be automatically diverted to a flare. In order to assure compliance with this condition, each flare shall be equipped with local and remote alarms and auto restart capabilities. 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 inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)

6. The owner/operator shall apply for and receive a Change of Condition from the District before altering the landfill gas collection system described in Part 6a below. Increasing or decreasing the number of wells or collectors, or significantly changing the length of collectors, or the locations of wells or collectors are all considered to be alterations that are subject to this requirement. Replacement of landfill gas collection system components with identical or functionally equivalent components will not be deemed an alteration and will not be subject to the Authority to Construct requirement under the following circumstances. If a well or collector will be shut down and replaced by a new well or collector in essentially the same location as the old component and this decommission/installation will be accomplished in accordance with Regulations 8-34-117 and 8-34-118, then this activity shall be considered a component replacement that is not subject to the Authority to Construct requirement. For each individual well or collector replacement, this subpart authorizes a maximum vacuum disconnection time of five consecutive days for compliance with Regulation 8-34-117.5. The disconnected component and the new component shall not be counted toward the subpart 1b(i) limits; the numbers of replacement wells and replacement collectors are not limited. Alterations, repairs, or replacements of non-perforated piping sections (such as risers, laterals, or header pipes), piping connectors, or valves are not subject to the Authority to Construct requirement.

   a. The owner/operator has been issued Change of Condition for the landfill gas collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in the Republic Services West Contra Costa Sanitary Landfill Updated Landfill Gas Collection and Control System Design Plan Class II dated March 3, 2008 and in Table 2 Class II Landfill Gas Extraction Well List submitted August 11, 2008. The authorized number of landfill gas collection system components is the baseline count listed below plus any components installed and minus any components decommissioned pursuant to subpart 6b, as evidenced by start-up and decommissioning notification letters submitted to the District.

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i. Baseline Count of Components Located in Class II Waste DisposalArea

	Required Components
Total Number of Vertical Wells:	67
Total Number of Horizontal Collectors:	7
Total Number of leachate sump wellheads	3

ii. Baseline Count of Components Located in Class I Waste Disposal Area

	Required Components
Total Number of Horizontal Collectors:	16

b. The owner/operator is authorized to make the landfill gas collection system alterations described below:
   i. install up to 94 new vertical wells;
   ii. install up to 20 new horizontal collectors;
   iii. decommission up to 26 vertical wells;
   iv. decommission up to 9 horizontal collectors;
   v. connect the leachate collection and recovery system (LCRS) to the landfill gas collection unit. LCRS is comprised of (5 vaults, 13 wells and 13 sumps)

   Wells installed pursuant to this subpart shall be added to or removed from subpart a in accordance with the procedures identified in Regulations 2-6-414 or 2-6-415.

c. The owner/operator shall submit a start-up/shutdown notification to the District at least three days before the installation of a new well or the decommissioning of an existing well. The notification shall include:
   i. an updated well list that includes the well name, installation date, well type, well status (active/not active) well depth and decommission date (if applicable)
   ii. an updated LFG Extraction System drawing reflecting the modifications.

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

7. The landfill gas collection system components described in Part 6a shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the District, unless the owner/operator complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. Individual wells, collectors, and adjustment valves shall not be disconnected, removed, or completely closed, without prior written authorization from the District, unless the owner/operator complies with all applicable provisions of Regulation 8, Rule 34, Sections 113, 116, 117, or with Part 7c below. (Basis: Regulations 8-34-301.1, 8-34-404, 8-34-305, 8-34-414, 8-34-501.5, and 8-34-505)

   a. The owner/operator may operate the vacuum on any of the leachate collection and recovery system (LCRS) components on a less than continuous basis. LCRS components may be connected to the vacuum

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system as needed to prevent component or surface leaks or to abate landfill gas that has migrated into the LCRS. The LCRS components may be disconnect from the vacuum system when methane concentration in the component is less than 5.0% by volume, or when oxygen concentration in the component is 15.0% by volume or more, or when abatement is no longer necessary to maintain compliance with applicable component and surface leak limits. LCRS components are not subject to subparts 7b-c below or Regulation 8-34-305 but are subject to the alternative wellhead operating and monitoring requirements in subpart 7d below.

b. The owner/operator may temporarily disconnect individual landfill gas collection system vertical wells located in the Class II Waste Disposal Area from the vacuum system, provided that all requirements of this subpart are satisfied.
   i. No more than five (5) vertical wells may be temporarily disconnected from the vacuum system at any one time pursuant to subpart 7b.
   ii. For each individual well that is temporarily disconnected from the vacuum system pursuant to subpart 7b, the total vacuum system disconnection time shall not exceed 120 days during any 12-month period.
   iii. Vertical wells that are temporarily disconnected from the vacuum system pursuant to this subpart are not subject to wellhead limits (Regulation 8-34-305) or monthly wellhead monitoring requirements (Regulation 8-34-505).
   iv. Wells that are temporarily disconnected from the vacuum system pursuant to subpart 7b continue to be subject to the component leak limit (Regulation 8-34-301.2) and the quarterly leak testing requirement (Regulation 8-34-503) at all times. In addition, the owner/operator shall conduct the following additional component leak monitoring at each well that has been disconnected from the vacuum system pursuant to subpart 7b: test for component leaks using the procedures identified in Regulation 8-34-602 within 10 days of disconnection from vacuum and again within 30 days of disconnection from vacuum. If a component leak is detected at a component, the owner/operator shall take all steps necessary to reduce the leak below the applicable limit, including reconnecting the component to the vacuum system, if no other corrective action measures are successful within the time frames allowed by Regulation 8, Rule 34.
   v. For each well disconnection event, the owner/operator shall record each affected well ID number, all well disconnection dates and times, all well reconnection dates and times, all related monitoring dates and monitoring results in a District approved log. This log

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shall also include an explanation of why the temporary well shut down was necessary and shall describe all adjustments or repairs that were made in order to allow this well to operate continuously, to reduce leaks, or to achieve compliance with an applicable limit. All records shall be retained for a minimum of five years and shall be made available to District staff upon request.

c. The owner/operator shall operate each group of horizontal landfill gas collectors (one group of horizontal collectors is located in the Class I waste disposal area and one group of horizontal collectors is located in the Class II waste disposal area) on a continuous basis. Individual horizontal collectors within each group of horizontal collectors may be connected to or disconnected from the vacuum system in accordance with the following criteria.

i. The owner/operator shall begin operating each horizontal collector (open the valve to the vacuum system with sufficient vacuum to generate gas flow from the collector and direct collected gases to a control device) upon detection of a gauge pressure of 1.0 inches of water or more, or upon detection of a methane concentration of 5.0% by volume or more in the collector.

ii. The owner/operator may temporarily disconnect a horizontal collector from the vacuum system (isolation valve completely closed) upon detection of a methane concentration in the collector of less 5.0% by volume, or upon detection of an oxygen concentration in the collector of 15.0% by volume or more.

iii. Collection system components that are temporarily disconnected from the vacuum system in accordance with this subpart are not subject to the Regulation 8-34-305 wellhead limits or the subpart 7d alternative component limits.

iv. Collection system components that are temporarily disconnected from the vacuum system continue to be subject to the component leak limit (Regulation 8-34-301.2) and the quarterly component-leak testing requirement (Regulation 8-34-503) at all times. In addition, the owner/operator shall conduct the following component-leak monitoring at each component that has been disconnected from the vacuum system pursuant to subpart 7c: test for component leaks using the procedures identified in Regulation 8-34-602 within 10 days of disconnection from vacuum and again within 30 days of disconnection from vacuum. If a component leak is detected at a component, the owner/operator shall take all steps necessary to reduce the leak below the applicable limit, including reconnecting the component to the vacuum system, if no other corrective action measures are successful within the time frames allowed by Regulation 8, Rule 34.

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vi. For each well or collector disconnection event, the owner/operator shall record the well/collector ID number, all vacuum disconnection dates and times, all vacuum reconnection dates and times, all related monitoring dates, and all monitoring results in a District approved log. This log shall also include an explanation of why the temporary disconnection was necessary and shall describe all adjustments or repairs that were made in order to allow the collection system component to operate continuously, to reduce leaks, or to achieve compliance with an applicable limit. All records shall be retained for a minimum of five years and shall be made available to District staff upon request.

d. The owner/operator shall operate any LCRS components (subject to subpart 7a) and any horizontal collectors (subject to subpart 7c) in compliance with the alternative component limits and related monitoring requirements listed in this subpart instead of the wellhead limits cited in Regulation 8-34-305. The alternative component limits listed below apply to each LCRS component and to each horizontal collector while it is connected to the vacuum system and required to be operating. The alternative component limits do not apply during vacuum disconnection time that is authorized by subpart 7a or 7c or Regulation 8, Rule 34.

i. Each component that is required to be operating shall operate under a vacuum with a gauge pressure of less than 0.0 inches of water, except for the following circumstance. If a component has been disconnected from the vacuum system for more than 24 hours, the gauge pressure may exceed 0.0 inches of water for up to 24 hours after the vacuum reconnection time.

ii. For each component that is required to be operating, the gas temperature shall not exceed 131 degrees F.

iii. For each component that is required to be operating, the oxygen concentration of the gas in the wellhead shall not exceed 15.0% oxygen by volume (dry basis), except for the following circumstances. If a component must be operated pursuant to subpart 7c(i), the oxygen concentration may exceed 15% by volume from the time of detection until the component is disconnected from the vacuum system pursuant to subpart 7c(ii).

iv. The owner/operator shall demonstrate compliance with these alternative component limits by monitoring each LCRS component and each horizontal collector listed in subpart 6a and any LCRS components or horizontal collectors installed pursuant to subpart 6b on a monthly basis for gauge pressure, gas temperature, methane concentration, and oxygen concentration using the procedures identified in Regulation 8-34-604 and 8-34-608.

v. All monitoring dates and monitoring results shall be recorded in a

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District approved log. Each month, the owner/operator shall compare these monitoring results to the operating requirements in subparts 7a and 7c and the alternative component limits in subpart 7d(i-iii). The owner/operator shall identify any components that must or may undergo a change of operational status due to the pressure results or methane and oxygen concentration results. The owner/operator shall also identify any operating components where the measured gauge pressure, temperature, or oxygen concentration exceeds the applicable limit in subpart 7d(i-iii). If the operator identifies an excess of a component limit, the operator may follow the repair schedule requirements in Regulation 8-34-414 to correct the excess. For compliance with Regulation 8-34-414.3-4, gas collection system expansion is not required, if the excess can be corrected in some other manner such as adjusting, repairing, or replacing the component, temporarily disconnecting the component from the vacuum system (if authorized by subpart 7a or 7c), or permanently decommissioning the component (if authorized by subpart 6b). In each case, the excess shall be corrected within 120 days of the date that the excess was first discovered. All records shall be retained for a minimum of five years and shall be made available to District staff upon request.

8. The total combined Heat Input to all internal combustion engines and flares (S-5, S-6, S-37, A-8 and A-120) shall not exceed 780,134 MM BTU in any consecutive 12 month period. In order to demonstrate compliance with this part, the owner/operator shall calculate and record on a monthly basis the maximum daily and total monthly heat input to each flare and engine based on the landfill gas flow rate recorded pursuant to Part 14, 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/ft^3 at 60 degrees F.

a. Heat Input (MM BTU/day) = Daily Fuel Flow Rate (ft^3/day at 60 °F and 14.7 psia) * Methane Concentration (%) * Gross Methane Heat Content (1013 BTU/ft^3 CH_4) * Conversion Factor (1E-8)

(Basis: Cumulative Increase and Regulation 2-1-301,Regulation 8-34-301)

9. The combustion zone temperature of the A-8 Landfill Gas Flare shall be maintained at a minimum of 1400 degrees Fahrenheit, averaged over any 3-hour period, during any time that landfill gas is vented to the flare. The combustion zone temperature of the A-120 Landfill Gas Flare shall be maintained at a minimum of 1417 degrees Fahrenheit, averaged over any 3-hour period, during any time that landfill gas is vented to the flare. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO may revise these minimum temperature limits in accordance with the procedures identified in Regulation 2-6-

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414 or 2-6-415, based on the following criteria. The minimum combustion zone temperature for the flare shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature is not less than 1400 degrees F. (Basis: Regulations 2-5-301, 8-34-301.3, and 8-34-501.3, and 40 CFR 60.756(b)(1))

10. Total reduced sulfur compounds in the collected landfill gas shall be monitored as a surrogate for monitoring sulfur dioxide in control system's exhaust. The concentration of total reduced sulfur compounds in the collected landfill gas shall not exceed 300 ppmv (dry). In order to demonstrate compliance with this part, the owner/operator shall measure the total sulfur content in collected landfill gas on a quarterly basis using a Draeger tube or by Tedlar Bag sampled laboratory analysis. The landfill gas sample shall be taken from the main landfill gas header. The owner/operator shall follow the manufacturer's recommended procedures for using the Draeger tube and interpreting the results. . (Basis: Regulation 9-1-302, Cumulative Increase)

11. In order, to demonstrate compliance with Part 4, Regulation 8, Rule 34, Sections 301.3 and 412, and 40 CFR 60.8 and 60.752(b)(2)(iii)(B), and the CARB Landfill Methane Control Measure, the owner/operator shall ensure that a District approved source test is conducted annually on the A-120 Landfill Gas Flare (. The owner/operator shall conduct a source test on the A-8 back-up flare at least once every three years. As a minimum, the source tests required by this part shall determine the following:
    a. landfill gas flow rate to the flare (dry basis);
    b. concentrations (dry basis) of carbon dioxide (CO_2), nitrogen (N_2), oxygen (O_2), methane (CH_4), 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 NO_x, CO, SO_2, NMOC, and O_2 in the flare stack gas;
    e. NMOC and methane destruction efficiencies achieved by the flare; and
    f. the average combustion temperature in the flare during the test period.
    g. NOx and CO emission rates from the flare in units of pounds per million BTU

    The Source Test Section of the District shall be contacted to obtain their approval of the source test procedures at least 14 days in advance of each source test. They shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date.
    (Basis: Regulations 8-34-301.3 and 8-34-412 and CCR 95464(b)(2)(A)(1))

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12. The owner/operator 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 organic compounds listed below. If the owner/operator is conducting a laboratory analysis of the landfill gas to determine the total reduced sulfur content pursuant to Part 10, the landfill gas shall be analyzed for all of the sulfur compounds listed below. 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. (Basis: Regulation 2 Rule 5, AB-2588 Air Toxics Hot Spots Act, and Regulation 8-34-412)

<u>Organic Compounds</u>
acrylonitrile
benzene
benzyl chloride
1,3 butadiene
carbon tetrachloride
chlorobenzene
chloroform
1,1 dichloroethane
1,1 dichlorethene
1,2 dichloroethane
1,4 dichlorobenzene
1,4 dioxane
ethylbenzene
ethylene dibromide
hexane
isopropyl alcohol
methyl ethyl ketone
methyl tert butyl ether
methylene chloride
perchloroethylene
styrene
toluene
1,1,1 trichloroethane
1,1,2,2 tetrachloroethane
trichloroethylene
vinyl chloride
xylenes

<u>Sulfur Compounds</u>
hydrogen sulfide

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carbon disulfide
carbonyl sulfide
dimethyl sulfide
ethyl mercaptan
methyl mercaptan

*13. If the concentrations (dry basis) of toxic air contaminants in the collected landfill gas exceed any of the limits listed below, the owner/operator shall submit a permit application for a Change of Permit Conditions within 30 days of receiving the test results.

Limits on Toxic Air Contaminant Concentrations in Collected Landfill Gas:

Acrylonitrile	=	10	ppmv
Benzene	=	8.9	ppmv
Chlorobenzene	=	1.5	ppmv
Ethylbenzene	=	41	ppmv
Methylene Chloride	=	350	ppmv
Perchloroethylene	=	4	ppmv
Toluene	=	110	ppmv
Trichloroethylene	=	0.873	ppmv
Vinyl Chloride	=	6.4	ppmv
Xylene	=	78	ppmv

(Basis: Regulation 2-5-302 and AB-2588 Air Toxics Hot Spots Act)

14. In order to demonstrate compliance with the above conditions, the owner/operator shall maintain the following records in a District approved logbook.
    a. Record of the dates, locations, and frequency per day of all watering activities on unpaved roads. 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.
    b. Record the initial operation date for each new landfill gas well and collector.
    c. Maintain an accurate map of the landfill, which indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers). Maintain a list of the wells or collectors that are venting to the control system (A-8, A-120, S-5, S-6, and S-37). This map shall be updated at least once a year to include any newly installed wells and collectors and to remove any decommissioned wells and collectors. On this map, the owner/operator shall also clearly identify each waste disposal area that contains non-decomposable waste and that is being excluded from landfill gas collection system requirements. For each excluded area, the owner/operator shall maintain records of the types and

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amounts of all non-decomposable waste placed in the excluded area and the percentage (if any) of decomposable waste located in the excluded area.

d. Record the operating times and the landfill gas flow rate to the A-8 or A-120 Landfill Gas Flare on a daily basis. Summarize these records on a monthly basis. Calculate and record the heat input to each flare, pursuant to Part 8.

e. Maintain continuous records of the combustion zone temperature for each flare during all hours of operation of that flare.

f. Maintain records of all test dates and test results performed to maintain compliance parts 10, 11, and 12 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: Cumulative Increase, Regulations 2-1-301, 2-5-302, 2-6-501, 6-1-301, 6-1-305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501)

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

16. Nitrogen oxide (NO_x) emissions from the A-120 Landfill Gas Flare shall not exceed 0.05 pounds of NO_x per million BTU. (Basis: Cumulative Increase)

17. Carbon monoxide (CO) emissions from the A-120 Landfill Gas Flare shall not exceed 0.20pounds of CO per million BTU. (Basis: Cumulative Increase)

18. The A-120 Landfill Gas Flare shall comply with the NMOC emission limit in Regulation 8-34-301.3. (Basis: Cumulative Increase, 8-34-301.3, and 40 CFR 60.752(b)(2)(iii)(B))

19. The owner/operator shall maintain records of all planned and unanticipated shut downs of the A-120 Flare and of any temperature excursions. The records shall

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include the date, time, duration, and reason for any shut down or excursion. Any unanticipated shut downs or temperature excursions shall be reported to the Enforcement Division immediately. All inspection and maintenance records, records of shut downs and excursions, gas flow records, temperature records, analytical results, source test results, and any other records required to demonstrate compliance with the above permit conditions, Regulation 8 Rule 34, or 40 CFR Part 60 Subpart WWW shall be retained on site for a minimum of five years and shall be made available to District staff upon request. (Basis: 2-6-501, 8-34-501, 40 CFR 60.758)

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Condition # 22792

FOR: S-50 SOLID WASTE TRANSFER STATION AND A-50 WATER MIST SYSTEM

1. The total quantity of waste accepted at the waste transfer station, S-50, shall not exceed 2000 tons per day or 730,000 tons in any consecutive twelve month period. (Basis: Cumulative Increase)

2. Wastes (mixed wastes, green material and wood wastes) shall be removed from the transfer station within 48 hours after being received at the facility. (Basis: Regulation 1-301)

3. Visible particulate emissions from the operations at S-50 shall not exceed Ringelmann 1.0 or result in fallout on neighboring property. (Basis: Regulation 6-1-301, 6-1-305, Regulation 1-301)

4. Water and/or dust suppressants shall be applied to all on-site unpaved roadways 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 6-1-301, and 6-1-305)

5. Within 90 days after the start-up of the transfer station, S-50, the owner/operator shall cease to accept waste at the landfill source, S-15, and shall submit written confirmation that waste is no longer accepted at S-15. (Basis: Cumulative Increase, Regulation 2-2-410)

6. The maximum number of roundtrip vehicle trips to S-50 shall not exceed 1,075 on any day. The maximum number of roundtrip vehicle trips to S-50 shall not exceed 232,900 over any consecutive 12-month period. (Basis: BACT, Cumulative Increase)

7. The owner/operator shall maintain, in a District-approved log, records of:
   a. waste throughput,
   b. vehicle route maintenance events (cleaning of paved roads and application of water or dust suppressants on unpaved roads),
   c. the number of vehicle trips per day to S-50 and
   d. the number of vehicle trips to S-50 over the previous 12-month period on a monthly basis.

   These records shall be retained on site for a minimum of five years from the date of entry and shall be made available to the District representatives upon request. (Basis: Cumulative Increase, Regulations 2-6-501, and 6-1-305)

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Condition # 23220

FOR: S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #1; S-71 PRIMARY OIL WATER SEPARATOR; S-72 SECONDARY SEPARATOR/EMULSION BREAKER; S-140 CLARIFIER HOLDING TANK; S-74 INCLINED PLATE CLARIFIER; S-123 AIR STRIPPER HOLDING TANK; S-155 OIL SLUDGE THICKENER; S-151 AND S-142 WASTE OIL SLUDGE TANK; S-146 PRETREATMENT INLET FEED TANK; S-145 E-22R AREA TANK; S-157 FILTER PRESS SURGE TANK; S-141 INLET FEED TANK; S-156 THREE DAY TANKS; A-20 CARBON ADSORBER AND A-21 CARBON ADSORBER

1. The owner/operator shall not exceed a combined wastewater throughput limit of 40,800 gallons per day nor 14,892,000 gallons during any consecutive twelve-month period in the inlet storage tanks, S-69, S-70, S-141 and S-156 and the leachate treatment facility sources, S-71, S-72, S-140, S-74, S-123, S-155, S-151, S-142, S-146, S-145, S-150 and S-157. The wastewater streams from the following are permitted:

   class I leachate well field
   class I landfill gas condensate
   Corrective Action Management Unit (CAMU) storm water
   E-22R Area –East of HWMF (extraction wells EW-1, EW-7 and EW-13)

   a. Wastewater inlet to sources S-69, S-70 and S-141 and S-156 shall not have a VOC content in excess of 809 pounds per day or 295,285 pounds per year. The sample shall be analyzed for VOCs by Method 8260 or 8021. Records of laboratory results showing VOC concentration from the discharge side of the inlet storage tanks. Submit results within 1 month of operation to Engineering Division.
   b. To determine compliance with Part 1A, the owner/operator shall collect a sample from the discharge from the inlet storage tanks to the Leachate Treatment System semiannual.

   (Basis: Cumulative Increase, Regulation 2 Rule 5)

2. The owner/operator shall vent the emissions from S-69, S-70, S-141, S-71, S-72, S-140, S-74, S-123, S-155, S-151, S-142, S-146, S-145, S-156 and S-157 to A-20 and A-21, two 500-pound activated carbon vessels arranged in series. However, for S-156, if influent into tanks have been treated by S-150, which includes the treated wastewater being polished with carbon vessels, no abatement is required for the vapor phase of S-156. Influent vapor flow to the carbon vessels shall not exceed a cumulative flow rate of 300 scfm. (Basis: Regulation 8-5-301, Cumulative Increase, Regulation 2 Rule 5)

3. The owner/operator shall operate the wastewater separators, S-71 and S-72, with

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all the openings kept closed at all times except when the opening is used for the inspection and maintenance of the separators. (Basis: Regulation 8-8-301 and 8-8-303)

4. Detectable non-methane organic compound (NMOC) leaks shall not exceed concentrations higher than 100 ppmv (measured as methane) above background at a distance of 1 cm from any of the valves, flanges, or pumps. (Basis: Cumulative Increase)

5. The owner/operator shall change out A-20, the first carbon vessel in series, with unspent carbon upon measuring a NMOC concentration at the A-20 outlet that meets both of the following conditions:
   a. NMOC concentration is 10 % or more of the A-20 carbon vessel inlet concentration, and
   b. NMOC concentration is 10 ppmv or greater (measured as methane).
   (Basis: Cumulative Increase, Regulation 2 Rule 5)

6. The owner/operator shall change out A-21, the last carbon vessel, with unspent carbon upon measuring a NMOC concentration at the A-21 outlet of 6 ppmv or greater (measured as methane). (Basis: Cumulative Increase, Regulation 2 Rule 5)

7. To determine compliance with Part 1, the owner/operator shall maintain the following records:
   a. Daily records of the type of liquid and the liquid throughput to the inlet storage tanks S-69, S-70, S-141 and S-156 and to the leachate treatment facility sources.
   b. Monthly totals of the liquid throughputs over the previous 12-month period.
   c. Semiannual test results, with calculated and speciated VOCs.
   (Basis: Cumulative Increase, Regulation 2 Rule 5)

8. To determine compliance with Parts 5 and 6, the owner/operator shall:
   a. Measure NMOC concentrations with a flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer. To determine the presence of methane, readings at each monitoring location shall be taken with and without an unspent carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane. Measurements shall be conducted at the following locations:
      i. At the inlet to A-20, the first carbon vessel in series.
      ii. At the outlet of A-20, the first carbon vessel in series.
      iii. At the outlet of A-21, the last carbon vessel in series prior to

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venting to the atmosphere.

b. Calculate and record the period of time that the carbon vessels may operate until breakthrough occurs based on the emissions of all sources vented to the carbon vessels.

c. Measure NMOC concentrations at the inlet and outlet of all abatement devices on at least a:
   i. monthly basis when the period of time until breakthrough is 40 days or longer;
   ii. weekly basis when the period of time until breakthrough is between 10 days and 40 days;
   iii. daily basis when the period of time until breakthrough is 10 days or less.

d. Record these measurements in a monitoring log at the time they are taken.

e. Record the carbon vessel(s) replaced with unspent carbon and the date of replacement.

(Basis: Cumulative Increase, Regulation 2 Rule 5)

9. The owner/operator shall maintain, in a District approved log, all measurements, data and calculations that are required to be recorded. These records shall be retained on-site for a minimum of five years following the date of entry and shall be made available to the District representatives upon request. (Basis: Cumulative Increase, Regulation 2 Rule 5, Regulation 2-6-501)

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Condition # 23316
FOR: S-120 AND S-130 AIR STRIPPERS; ABATED BY:
A-14 CARBON ADSORBER; A-15 CARBON ADSORBER AND A-16 CARBON ADSORBER OR
A-17 CARBON ADSORBER, A-18 CARBON ADSORBER AND A-19 CARBON ADSORBER

1. The owner/operator shall not exceed a combined wastewater throughput limit of 40,800 gallons per day nor 14,892,000 gallons during any consecutive twelve-month period in the S-120 and S-130 Air Strippers. The wastewater streams from the following are permitted:
   class I leachate well field
   class I landfill gas condensate
   Corrective Action Management Unit (CAMU) storm water
   E-22R Area –East of HWMF (extraction wells EW-1, EW-7 and EW-13)
   (Basis: Cumulative Increase, Regulation 2 Rule 5)

2. The owner/operator shall vent the emissions from S-130 and S-120 to either A-14, A-15, and A-16 three 2000-pound activated carbon vessels arranged in series, or to A-17, A-18 and A-19, three 2000-pound activated carbon vessels arranged in series, during all periods of operation. Influent vapor flow to the carbon vessels shall not exceed a cumulative flowrate of 850 scfm from the air strippers. (Basis: Regulation 8-47-301 302, Cumulative Increase, Regulation 2 Rule 5)

3. Detectable non-methane organic compound (NMOC) leaks shall not exceed concentrations higher than 100 ppmv (measured as methane) above background at a distance of 1 cm from any of the valves, flanges, or pumps. (Basis: Cumulative Increase)

4. The owner/operator shall change out A-14 and A-15 or A-17, and A-18, the first and second carbon vessels in series, with unspent carbon upon measuring a NMOC concentration at the A-14 and A-15 or A-17 and A-18 outlet that meets both of the following conditions:
   a. NMOC concentration is 10 % or more of the A-14 and A-15 or A-17 and A-18 inlet concentration, and
   b. NMOC concentration is 10 ppmv or greater (measured as methane).
   (Basis: Cumulative Increase, Regulation 2 Rule 5)

5. The owner/operator shall change out A-16 or A-19, the last carbon vessels, with unspent carbon upon measuring a NMOC concentration at the A-16 or A-19 outlet of 6 ppmv or greater (measured as methane). (Basis: Cumulative Increase, Regulation 2 Rule 5)

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6. Sufficient carbon inventory must be kept on site to completely replace at least four 2000-pound carbon vessels. Whenever a carbon vessel is replaced, the standby carbon vessel inventory shall be replenished within seven calendar days. (Basis: Cumulative Increase, Regulation 2 Rule 5)

7. To determine compliance with Part 1, the owner/operator shall maintain the following records:
   a. Daily records of the type of liquid and the liquid throughput to the leachate treatment facility sources, and
   b. Monthly totals of the liquid throughputs over the previous 12-month period.

   (Basis: Cumulative Increase, Regulation 2 Rule 5)

8. To determine compliance with Parts 4 and 5, the owner/operator shall:
   a. Measure NMOC concentrations with a flame-ionization detector (FID), or other method approved in writing by the Air Pollution Control Officer. To determine the presence of methane, readings at each monitoring location shall be taken with and without an unspent carbon filter tip fitted on the FID probe. Concentrations measured with the carbon filter tip in place shall be considered methane. Measurements shall be conducted at the following locations:
      i. At the inlet to A-14 or A-17, the first carbon vessel in series.
      ii. At the outlet of A-14 or A-17, the first carbon vessel in series.
      iii. At the outlet of A-16 or A-19, the last carbon vessel in series prior to venting to the atmosphere.
   b. Calculate and record the period of time that the carbon vessels may operate until breakthrough occurs based on the emissions from the air stripper.
   c. Measure NMOC concentrations at the inlet and outlet of A-14, A-17, the first carbon vessel in series that is in operation, and at the outlet of A-16 and A-19, the last carbon vessel in series that is in operation at least :
      i. twice a week when the period of time until breakthrough is between 4 days and 10 days;
      ii. daily basis when the period of time until breakthrough is 4 days or less.
   d. Record these measurements in a monitoring log at the time they are taken.
   e. Record the carbon vessel(s) replaced with unspent carbon and the date of replacement.

   (Basis: Cumulative Increase, Regulation 2 Rule 5)

9. The owner/operator shall maintain, in a District approved log, all measurements, data and calculations that are required to be recorded. These records shall be retained on-site for a minimum of five years following the date of entry and shall

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be made available to the District representatives upon request. (Basis: Cumulative Increase, Regulation 2 Rule 5, Regulation 2-6-501)

Condition # 23350

FOR: S-111 CONCRETE CRUSHER AND A-111 WATER SPRAY SYSTEM

1. Prior to the operation of S-111 using a power source that requires a District permit, the owner/operator must hold a valid District permit for the power source. (basis: Regulation 2-1-301 and 302)

2. The owner/operator shall not exceed 30,000 tons of concrete throughput at S111 in any consecutive twelve month period. (basis: Cumulative Increase)

3. The owner/operator shall abate S-111 with A-111 Water Spray whenever concrete or other rock material is being crushed. (basis: Cumulative Increase)

4. The owner/operator shall not operate S-111 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

5. The owner/operator shall apply a waterborne petroleum resin dust suppressant or other equivalent chemical dust suppressant to all unpaved on-site truck routes, to and from the concrete and asphalt recycling operations, on a regular basis according to manufacturer's recommendations to achieve and maintain a minimum particulate matter (TSP) control efficiency of 75% by weight. (basis: Cumulative Increase)

6. The owner/operator shall maintain records, summarized on a monthly and annual basis, of concrete throughput at S-111. The owner/operator shall maintain records of chemical dust suppressant applied to vehicle routes and other unpaved areas. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

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Condition # 23351
FOR: S-112 CRUSHED CONCRETE SCREENER AND A-112 WATER SPRAY SYSTEM

1. Prior to the operation of S-112 using a power source that requires a District permit, the owner/operator must hold a valid District permit for the power source. (basis: Regulation 2-1-301 and 302)

2. The owner/operator shall not exceed 30,000 tons of concrete throughput at S-112 in any consecutive twelve month period. (basis: Cumulative Increase)

3. The owner/operator shall abate S-112 with A-112 Water Spray whenever concrete or other rock material is being screened. (basis: Cumulative Increase)

4. The owner/operator shall not operate S-112 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

5. The owner/operator shall maintain records, summarized on a monthly and annual basis, of concrete throughput at S-112. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

Condition # 23352
FOR: S-113 CONCRETE/ASPHALT STORAGE PILES AND A-113 WATER SPRAY SYSTEM

1. The owner/operator shall not exceed 30,000 tons of concrete throughput or 5,000 tons of asphalt throughput at S-113 in any consecutive twelve month period. (basis: Cumulative Increase)

2. The owner/operator shall abate S-113 with A-113 Water Spray on a regular basis to prevent wind erosion particulate emissions. The unloading and loading of concrete and asphalt associated with S-113 shall be abated as necessary by water spray to prevent visible particulate emissions. Dry, dusty material shall be wetted down before unloading from truck beds as necessary to prevent visible emissions. (basis: Cumulative Increase)

3. The owner/operator shall not operate S-113 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods

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aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

4. The owner/operator shall maintain records, summarized on a monthly and annual basis, of concrete and asphalt throughput at S-113. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

Condition # 23353
FOR: S-114 CONVEYORS (CRUSHED CONCRETE) AND A-114 WATER SPRAY SYSTEM

1. Prior to the operation of S-114 using a power source that requires a District permit, the owner/operator must hold a valid District permit for the power source. (basis: Regulation 2-1-301 and 302)

2. The owner/operator shall not exceed 30,000 tons of crushed concrete throughput at S-114 in any consecutive twelve month period. (basis: Cumulative Increase)

3. The owner/operator shall abate S-114 with A-114 Water Spray whenever crushed concrete or other rock material is being conveyed. (basis: Cumulative Increase)

4. The owner/operator shall not operate S-114 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

5. The owner/operator shall maintain records, summarized on a monthly and annual basis, of crushed concrete throughput at S-114. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

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Condition # 23354
FOR: S-115 WOOD/YARD WASTE SHREDDER (TUB GRINDER) AND A-115 WATER SPRAY SYSTEM

1. Prior to the operation of S-115 using a power source that requires a District permit, the owner/operator must hold a valid District permit for the power source. (basis: Regulation 2-1-301 and 302)

2. The owner/operator shall not exceed 19,000 tons of wood waste throughput at S-115 in any consecutive twelve month period. (basis: Cumulative Increase)

3. The owner/operator shall abate S-115 with A-115 Water Spray during all periods of operation. (basis: Cumulative Increase)

4. The owner/operator shall not operate S-115 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

5. The unloading, stockpiling, and loading of wood and yard waste associated with S115 shall be abated as necessary by water spray to prevent visible particulate emissions. Dry, dusty material shall be wetted down before unloading from truck beds as necessary to prevent visible emissions. (basis: Cumulative Increase)

*6. If the facility receives 2 or more violation notices for "public nuisance" from the District in any consecutive 12 month period, the owner/operator of the facility shall submit to the District within 30 days, an application to modify the permit to operate to include the following control measures as applicable or any other measures deemed necessary and appropriate by the District. (Basis: Regulation 1-301)
   a. Enclosure of S-115 Tub Grinder
   b. Complete enclosure of all operations in a warehouse-like building.

7. The owner/operator shall maintain records, summarized on a monthly and annual basis, of wood waste throughput at S-115. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

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Condition # 23355
FOR: S-116 WOOD WASTE SCREENER AND A-116 WATER SPRAY SYSTEM

1. Prior to the operation of S-116 using a power source that requires a District permit, the owner/operator must hold a valid District permit for the power source. (basis: Regulation 2-1-301 and 302)

2. The owner/operator shall not exceed 19,000 tons of wood waste throughput at S-116 in any consecutive twelve month period. (basis: Cumulative Increase)

3. The owner/operator shall abate S-116 with A-116 Water Spray at all times. (basis: Cumulative Increase)

4. The owner/operator shall not operate S-116 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

5. The owner/operator shall maintain records, summarized on a monthly and annual basis, of wood waste throughput at S-116. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

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Condition # 23356
FOR: S-117 COMPOSTING OPERATION AND A-117 WATER SPRAY TRUCK

1. The owner/operator shall not exceed 19,000 tons of compost material throughput at S-117 in any consecutive twelve month period.

2. The owner/operator shall abate S-117 with A-117 Water Spray whenever composting material is being processed. The unloading and loading of compost material associated with S-117 shall be abated as necessary by water spray to prevent visible particulate emissions. Dry, dusty material shall be wetted down before unloading from truck beds as necessary to prevent visible emissions. (basis: Cumulative Increase)

3. The owner/operator shall not operate S-117 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

4. The owner/operator shall apply a waterborne petroleum resin dust suppressant or other equivalent chemical dust suppressant to all unpaved on-site truck routes, to and from the composting operation, on a regular basis according to manufacturer's recommendations to achieve and maintain a minimum particulate matter (TSP) control efficiency of 75% by weight. As an alternative, the owner/operator may apply water for dust control at a frequency that achieves equivalent control. (basis: Cumulative Increase)

5. The owner/operator shall maintain records, summarized on a monthly and annual basis, of compost material throughput at S-117. The owner/operator shall maintain records of chemical dust suppressant applied to vehicle routes and other unpaved areas. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase and Regulation 2-6-501)

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Condition # 23357
FOR: S-118 CRUSHING OF ASPHALT DEBRIS AND A-118 WATER SPRAY SYSTEM

1. The owner/operator shall not exceed 5,000 tons of asphalt throughput at S-118 in any consecutive twelve month period. (basis: Cumulative Increase)

2. The owner/operator shall abate S-118 with A-118 Water Spray during all crushing and related material transfer operations. (basis: Cumulative Increase)

3. The owner/operator shall not operate S-118 in such a way that visible emissions, which are as dark or darker than a Ringelmann 1.0, occur for a period or periods aggregating more than 3 minutes in any hour; or results in fallout on adjacent property which causes a public nuisance. (basis: Regulation 6-1-301 and Regulation 1-301)

4. The owner/operator shall maintain records, summarized on a monthly and annual basis, of asphalt throughput at S-118. These records shall be kept in a District-approved log, shall be retained on-site for a minimum of five years from the date of entry, and shall be made available to District representatives upon request. (basis: Cumulative Increase, Regulation 2-6-501)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND
S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for < 3 minutes/hr	None	N	NA
Opacity	SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr	None	N	NA
FP	BAAQMD 6-1-310	N		0.15 grains/dscf	None	N	NA
FP	SIP 6-310	Y		0.15 grains/dscf	None	N	NA
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 8-34-503	P/Q	Quarterly Inspection and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4 and BAAQMD Condition # 5771, Part 6	Y		98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 5771, Part 7	P/A	Initial and Annual Source Tests and Records
NMOC	40 CFR 60.752(b)(2)(iii)(B)	Y		98% removal by weight OR < 20 ppmv dry @ 3% O_2, expressed as hexane	40 CFR 60.8 and 60.752(b)(2)(iii)(B) and 60.758(b)(2)	P/I	Initial Source Test and Records
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits $\leq$ 0.5 ppm for 3 minutes, $\leq$ 0.25 ppm for 60 minutes, and $\leq$0.05 ppm for 24 hours	None	N	NA
SO_2	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition #25293, Part 10 and BAAQMD Condition # 5771, Part 7	P/Q and P/A	Quarterly Sulfur Analysis of Landfill Gas and Annual Source Test
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
NO_x	BAAQMD 9-8-302.1	N		Waste Fuel Gas, Lean-Burn $\leq$ 70 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
NO_x	SIP 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn $\leq$ 140 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NO_x	BAAQMD Condition # 5771, Part 4	Y		$\leq$ 63 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: $\leq$ 2000 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
CO	BAAQMD Condition # 5771, Part 5	Y		$\leq$ 376 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 5771, Part 7	P/A	Annual Source Test
Heat Input	BAAQMD Condition # 5771, Part 8	Y		285.6 MM BTU per day (each engine) and 104,250 MM BTU per year (each engine)	BAAQMD Condition # 5771, Parts 3 and 9	C	Gas Flow Meter and Recorder and Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Gas Flow	BAAQMD Condition # 5771, Part 2	Y		Upon shut down of an engine (S-5 or S-6), automatically divert excess collected gas to either flare A-120 or backup A-8 Flare	BAAQMD Condition # 5771, Part 3	C	Gas Flow Meter and Recorder
Gas Flow	40 CFR 60.753(a) and (e)	Y		Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C and P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve & Lock and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 5771, Part 9	P/D	Records
Emission Control System Startup Shutdown or Malfunc-tion	40 CFR 60.755(e)	Y		$\leq$ 1 hour per event	40 CFR 60.7(b), 60.757(f)(2) and (f)(3), and 60.758(e)	P/D	Records of occurrence and duration
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Engine Cylinder or Exhaust Temper-ature	BAAQMD Condition # 5771, Part 10	Y		To be established during first source test conducted after permit issuance	BAAQMD 8-34-507 and 8-34-509	C	Temperature sensor and continuous recorder
Periods of Inopera-tion 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	Records of occurrence and duration

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-5 INTERNAL COMBUSTION LEAN BURN ENGINE; AND S-6 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Contin-uous 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	Records of occurrence and duration

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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 Installa-tion 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 # 25293, Parts 14b-c	P/E	Records
Collection System Installa-tion 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 #25293, Parts 14b-c	P/E	Records
Collection System Installa-tion 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 #25293, Parts 14b-c	P/E	Records
Collection System Installa-tion Dates	40 CFR 60.753 (a)(2) and 60.755 (b)(2)	Y		For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2), and 60.759(a)(3)	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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 Installa-tion Dates	40 CFR 60.753 (a)(1) and 60.755 (b)(1)	Y		For Active Areas: Collection system components must be installed and operating by 5 years + 60 days after initial waste placement	40 CFR 60.758(a), (d)(1) and (d)(2)	P/E	Records
Gas Flow	BAAQMD 8-34-301 and 301.1 and 404	Y		Landfill gas collection system shall operate continuously, except as described in condition # 25293 part 7 and all collected gases shall be vented to a properly operating control system	BAAQMD 8-34-501.5, 501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes) and records
Gas Flow	BAAQMD Condition #25293, Parts 5, 6, and 7	Y		Landfill gas collection system shall operate continuously, except as described in condition # 25293 part 7 and all collected gases shall be vented to a properly operating control system	BAAQMD Condition # 5771, Part 9; BAAQMD Condition #17812, Part 9; and BAAQMD Condition #25293, Parts 14b-d	P/D	Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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
Gas Flow	BAAQMD Condition #25293, Parts 5, 6, and 7	Y		Landfill gas collection system shall operate less than continuously and all collected gases shall be vented to a properly operating control system	BAAQMD Condition # 5771, Part 9; BAAQMD Condition #17812, Part 9; and BAAQMD Condition #25293, Parts 14b-d	P/D	Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components
Gas Flow	40 CFR 60.753(a) and (e)	Y		Operate a Collection System in each area or cell and vent all collected gases to a properly operating control system	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C or P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve and Lock and Records
Collection and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year nor 5 consecutive days	BAAQMD 8-34-501.1	P/D	Operating Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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 and Control System Startup Shutdown or Malfunc-tion	40 CFR 60.755(e)	Y		5 days per event for collection system and 1 hour per event for control system	40 CFR 60.7(b), 60.757(f)(2), (f)(3) and (f)(4)	P/D	Operating Records (all occurrences and duration of each)
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Periods of Inopera-tion 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
Contin-uous 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
Wellhead Pressure	40 CFR 60.753(b)	Y		< 0 psig	40 CFR 60.755(a)(3), 60.756(a)(1), and 60.758(c) and (e)	P/M	Monthly Inspection and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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
Temper-ature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		< 55 ºC	BAAQMD 8-34-414, 501.9 and 505.2	P/M	Monthly Inspection and Records
Temper-ature of Gas at Wellhead	40 CFR 60.753(c)	Y		< 55 ºC	40 CFR 60.755(a)(5), 60.756(a)(3), and 60.758(c) and (e)	P/M	Monthly Inspection and Records
Gas Concen-trations at Wellhead	BAAQMD 8-34-305.3 or 305.4 and BAAQMD Condition # 25293 Part 7d	Y		Applies to Gas Collection System Components Other than Leachate Wells N_2 < 20% **OR** O_2 < 5% Applies to Leachate Wells When Connected to the LFG Collection System O_2 < 15% by volume	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4 and BAAQMD Condition #25293 Part 7d	P/M	Monthly Inspection and Records
Gas Concen-trations at Wellhead	40 CFR 60.753(c)	Y		N_2 < 20% **OR** O_2 < 5%	40 CFR 60.755(a)(5), 60.756(a)(2), and 60.758(c) and (e)	P/M	Monthly Inspection and 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 – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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 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 Reinspec-tion Times for Leaking Areas, and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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	40 CFR 60.753(d)	Y		<500 ppmv as methane at 5-10 cm from surface	40 CFR 60.755(c)(1), (4) and (5), 60.756(f), and 60.758(c) and (e)	P/M, Q and E	Monthly Visual Inspection of Cover, Quarterly Inspection with Portable Analyzer of Surface, 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-120 and A-8 Flares only)	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 25293, Parts 4, 11	P/A	Initial and Annual Source Tests and Records
NMOC	40 CFR 60.752(b)(2)(iii)(B)	Y		98% removal by weight OR < 20 ppmv dry @ 3% O_2, expressed as hexane (applies to A-120 and A-8 Flares only)	40 CFR 60.8 and 60.752(b)(2)(iii)(B) and 60.758 (b)(2)(ii)	P/E	Initial Source Test and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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
Temper-ature of Combus-tion Zone (CT)	BAAQMD Condition # 25293, Part 9	Y		CT $\geq$ 1400 °F, CT > 1417 °F averaged over any 3-hour period (applies to A-8 and A-120 Flares only)	BAAQMD 8-34-501.3 and 507, and BAAQMD Condition# 25293, Part 14e	C	Temperature Sensor and Recorder (continuous)
CT	40 CFR 60.758 (c)(1)(i)	Y		CT $\geq$ 1467 °F (3-hour average) from (CT $\geq$ CT_{PF} – 28 °C), where CT_{PF} is the average combustion temperature during the most recent complying performance test (applies to A-120 Flare only)	40 CFR 60.756(b)(1) and 60.758 (b)(2)(i)	C	Temperature Sensor and Recorder (measured every 15 minutes and averaged over 3 hours)
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for < 3 minutes/hr (applies to S-15 Landfill operations)	BAAQMD Condition #25293, Part 14e	P/E, M	Records of all site watering and road cleaning events
Opacity	SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to S-15 Landfill operations)	BAAQMD Condition #25293, Part 14e	P/E, M	Records of all site watering and road cleaning events
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for < 3 minutes/hr (applies to A-8 and A-120 Flares)	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 Landfill Gas Flare

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr (applies to A-8 and A-120 Flares)	None	N	NA
FP	BAAQMD 6-1-310	N		≤ 0.15 grains/dscf (applies to A-8 and A-120 Flares only)	None	N	NA
FP	SIP 6-310	Y		≤ 0.15 grains/dscf (applies to A-8 and A-120 Flares only)	None	N	NA
SO_2	BAAQMD 9-1-301	Y		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	NA
SO_2	BAAQMD 9-1-302	Y		≤ 300 ppm (dry basis) (applies to A-8 and A-120 Flares only)	BAAQMD Condition #25293, Part 10	P/A	Source Test
Total Sulfur Content in Landfill Gas	BAAQMD Condition #25293, Part 10	Y		≤ 300 ppmv	BAAQMD Condition # 25293, Part 10	P/Q	Sulfur analysis of landfill gas
H_2S	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	NA
Heat Input	BAAQMD Condition # 25293 Part 8	Y		≤ 2137 MM BTU per day and ≤ 780,134 MM BTU per year	BAAQMD Condition # 25293, Part 8	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-15 West Contra Costa Sanitary Landfill – Waste Decomposition Process Equipped with Landfill Gas Collection System; and A-8 Backup Landfill Gas Flare and A-120 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
Toxic Air Contam-inants	BAAQMD Condition # 25293 Part 13	N		Benzene 8.9 ppmv Chlorobenzene 1.5 ppmv Trichloroethylene 0.873 ppmv Ethylbenzene 41 ppmv Vinyl Chloride 6.4 ppmv Xylene 78 ppmv Toluene 110 ppmv Perchloroethylene 0.4 ppmv Acrylonitrile 10 ppmv Methylene Chloride 350 ppmv	BAAQMD Condition # 25293, Part 12	P/A	Annual Landfill Gas Analysis
NOx	BAAQMD Condition # 25293 Part 16	Y		From A-120 only < 0.05 lbs/MM BTU	BAAQMD Condition # 25293 Part 16	P/A	Annual Source Test and Records
CO	BAAQMD Condition # 25293 Part 17	Y		From A-120 only < 0.20 lbs/MM BTU	BAAQMD Condition # 25293 Part 17	P/A	Annual Source Test and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for < 3 minutes/hr	None	N	NA
Opacity	SIP 6-301	Y		Ringelmann No. 1 for < 3 minutes/hr	None	N	NA
FP	BAAQMD 6-1-310	N		0.15 grains/dscf	None	N	NA
FP	SIP 6-310	Y		0.15 grains/dscf	None	N	NA
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 8-34-503	P/Q	Quarterly Inspection and Records
Non-Methane Organic Com-pounds (NMOC)	BAAQMD 8-34-301.4	Y		98% removal by weight OR < 120 ppmv, dry basis @ 3% O_2, expressed as methane	BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 17812, Part 8	P/A	Initial and Annual Source Tests and Records
NMOC	40 CFR 60.752(b) (2)(iii)(B)	Y		98% removal by weight OR < 20 ppmv dry @ 3% O_2, expressed as hexane	40 CFR 60.8 and 60.752(b) (2)(iii)(B) and 60.758(b)(2)	P/I	Initial Source Test and Records
SO_2	BAAQMD 9-1-301	Y		Property Line Ground Level Limits $\leq$ 0.5 ppm for 3 minutes, $\leq$ 0.25 ppm for 60 minutes, and $\leq$0.05 ppm for 24 hours	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
SO_2	BAAQMD 9-1-302	Y		$\leq$ 300 ppm (dry)	BAAQMD Condition #25293, Part 10 and BAAQMD Condition # 17812, Part 8	P/Q and P/A	Quarterly Sulfur Analysis of Landfill Gas and Annual Source Test
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
NO_x	BAAQMD 9-8-302.1	N		Waste Fuel Gas, Lean-Burn $\leq$ 70 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
NO_x	SIP 9-8-302.1	Y		Waste Fuel Gas, Lean-Burn $\leq$ 140 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
NO_x	BAAQMD Condition # 17812, Part 5	Y		$\leq$ 63 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
CO	BAAQMD 9-8-302.3	Y		Waste Fuel Gas: $\leq$ 2000 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test
CO	BAAQMD Condition # 17812, Part 6	Y		$\leq$ 309 ppmv, dry basis @ 15% O_2	BAAQMD Condition # 17812, Part 8	P/A	Annual Source Test

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Heat Input	BAAQMD Condition # 17812, Part 2	Y		251.9 MM BTU per day and 91,951 MM BTU per consecutive 12-month period	BAAQMD Condition # 17812, Parts 7 and 9c-d	C	Gas Flow Meter and Recorder and Records
Gas Flow	BAAQMD 8-34-301 and 301.1	Y		Vent all collected gases to a properly operating control system and operate control system continuously.	BAAQMD 8-34-501.10 and 508	C	Gas Flow Meter and Recorder (every 15 minutes)
Gas Flow	BAAQMD Condition # 17812, Parts 3 & 4	Y		Operate S-37 continuously; Upon shutdown of S-37 or if any amount of gas exceeds the capacity of S-37, return gas to A-8 Flare automatically	BAAQMD Condition # 17812, Part 7	C	Gas Flow Meter and Recorder
Gas Flow	40 CFR 60.753(a) and (e)	Y		Vent all collected gases to a properly operating control system and operate control system at all times when gas is vented to it	40 CFR 60.756(b)(2) (i or ii) and 60.758(c)(2)	C and P/M	Gas Flow Meter and Recorder (every 15 minutes) or Monthly Inspection of Bypass Valve & Lock and Records
Emission Control System Shutdown Time	BAAQMD 8-34-113.2	Y		240 hours/year	BAAQMD 8-34-501.2 and BAAQMD Condition # 17812, Part 9a	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-37 INTERNAL COMBUSTION LEAN BURN ENGINE

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Emission Control System Startup Shutdown or Malfunc-tion	40 CFR 60.755(e)	Y		$\leq$ 1 hour per event	40 CFR 60.7(b), 60.757(f)(2) and (f)(3), and 60.758(e)	P/D	Records of occurrence and duration
Startup Shutdown or Mal-function Pro-cedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)
Engine Cylinder or Exhaust Temper-ature	BAAQMD Condition # 17812, Part 10	Y		To be established during first source test conducted after permit issuance	BAAQMD 8-34-507 and 8-34-509	C	Temperature sensor and continuous recorder
Periods of Inopera-tion 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	Records of occurrence and duration
Contin-uous 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	Records of occurrence and duration

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII –D
Applicable Limits and Compliance Monitoring Requirements
S-120 Air Stripper QED 6I Tray Model; and
S-130 Standby Air Stripper QED 4-Tray Model; abated by:
A-14 Carbon Adsorber; A-15 Carbon Adsorber and A-16 Carbon Adsorber; or A-17 Carbon Adsorber; A-18 Carbon Adsorber and A-19 Carbon Adsorber

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Total Organic Com-pounds (TOC)	BAAQMD 8-47-301 and 8-47-302	Y		control device shall reduce total organic compound emissions to the atmosphere by at least: 90% by weight	BAAQMD 8-47-501.1, 8-47-501.2, and 8-47-601 and BAAQMD Condition # 23316, Parts 7 and 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers, Daily Records of Wastewater Throughput and Monthly Records of Water Analyses
NMOC	BAAQMD Condition # 23316, Part 4	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-14, A-15 or A-17, A-18) that is 10% or more of the inlet NMOC concentration and is 10 ppmv or greater (measured as methane)	BAAQMD Condition # 23316, Part 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers (inlet and outlet) and Records
NMOC	BAAQMD Condition # 23316, Part 5	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-16 or A-19) of 6 ppmv (measured as methane)	BAAQMD Condition # 23316, Part 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers (outlet) and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII –D
Applicable Limits and Compliance Monitoring Requirements
S-120 Air Stripper QED 6I Tray Model; and
S-130 Standby Air Stripper QED 4-Tray Model; abated by:
A-14 Carbon Adsorber; A-15 Carbon Adsorber and A-16 Carbon Adsorber;
or A-17 Carbon Adsorber; A-18 Carbon Adsorber and A-19 Carbon Adsorber

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition # 23316, Part 3	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA
Waste-water Through-put Limits	BAAQMD Condition # 23316, Part 1	Y		40,800 Gallons/Day 14,892,000 Gallons/Year	BAAQMD Condition # 23316, Part 7	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – E
Applicable Limits and Compliance Monitoring Requirements
S-50 SOLID WASTE TRANSFER STATION; AND A-50 WATER MIST SYSTEM

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 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition #18258, Part 3	C	Continuous Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Condition #18258, Part 3	C	Continuous Observation of Source in Operation
Amount of Waste Accepted	BAAQMD Condition #22792, Part 1	Y		2000 tons/day or 730,000 tons in any consecutive twelve month period	BAAQMD Condition #18258, Part 7	P/E	Records
Amount of Vehicle Traffic	BAAQMD Condition #22792, Part 5 and 6	Y		601 vehicle trips per day to both S-15 and S-50 while waste is accepted at S-15; 715 vehicle trips per day to S-50 after waste is no longer accepted at S-15	BAAQMD Condition #18258, Part 7	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #2; S-141 INLET FEED TANK; S-156 THREE (3) DAY TANKS; EACH ABATED BY A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Com-pounds	BAAQMD 8-5-301 and 306	N		Abatement efficiency of at least 95% by weight	BAAQMD 8-5-501 and BAAQMD Condition # 23220, Parts 7 and 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers and Daily Records of Wastewater Throughput
Organic Com-pounds	SIP 8-5-301 and 306	Y		Abatement efficiency of at least 95% by weight	BAAQMD 8-5-501 and BAAQMD Condition # 23220, Parts 7 and 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers and Daily Records of Wastewater Throughput
NMOC	BAAQMD Condition # 23220, Part 5	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-20) that is 10% or more of the inlet NMOC concentration and is 10 ppmv or greater (measured as methane)	BAAQMD Condition # 23220, Part 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers (inlet and outlet) and Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – F
Applicable Limits and Compliance Monitoring Requirements
S-69 INLET STORAGE TANK #1; S-70 INLET STORAGE TANK #2; S-141 INLET FEED TANK; S-156 THREE (3) DAY TANKS; EACH ABATED BY A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NMOC	BAAQMD Condition # 23220, Part 6	Y		carbon replacement upon detection of an outlet NMOC concentration (from A-21) of 6 ppmv (measured as methane)	BAAQMD Condition # 23220, Part 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers (outlet) and Records
POC	BAAQMD Condition # 23220, Part 4	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA
Waste-water Through-put Limits	BAAQMD Condition # 23220, Part 1	Y		40,800 Gallons/Day 14,892,000 Gallons/Year	BAAQMD Condition # 23220, Part 7	P/D	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – G
Applicable Limits and Compliance Monitoring Requirements
S-71 PRIMARY OIL WATER SEPARATOR; S-72 SECONDARY SEPARATOR/EMULSION BREAKER; AND S-157 FILTER PRESS SURGE TANK; ABATED BY: A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Com-pounds	BAAQMD 8-8-301.3	N		combined collection and removal efficiency of at least 95% by weight	BAAQMD Condition # 23220, Part 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers
Organic Com-pounds	SIP 8-8-301.3	Y		combined collection and removal efficiency of at least 95% by weight	BAAQMD Condition # 23220, Part 8	P/D, W, M	Monthly, Weekly, or Daily FID Measure-ments at Carbon Adsorbers
Organic Com-pounds	BAAQMD 8-8-303	Y		all gauging and sampling devices shall have vapor tight covers, seals, or lids	None	N	NA
POC	BAAQMD Condition # 23220 Part 4	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – H
Applicable Limits and Compliance Monitoring Requirements
S-74 INCLINED PLATE CLARIFIER; S-140 CLARIFIER HOLDING TANKS; S-123 AIR STRIPPER FEED TANK; S-145 E-22R AREA TANKS; S-146 PRETREATMENT INLET FEED TANK; S-155 OIL SLUDGE THICKENER; S-142 WASTE OIL TANK; S-151 WASTE OIL TANK; ABATED BY: A-20 CARBON ADSORBER; AND A-21 CARBON ADSORBER

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 # 23220, Part 7	P/D	Records
Waste-water Through-put Limits	BAAQMD Condition # 23220, Part 1	Y		40,800 Gallons/Day 14,892,000 Gallons/Year	BAAQMD Condition # 23220, Part 7	P/D	Records
POC	BAAQMD Condition # 23220 Part 4	Y		Leak Limit for Valves, Flanges, and Pumps of: 100 ppmv of POC above background at 1 cm from any component	None	N	NA

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – I
Applicable Limits and Compliance Monitoring Requirements
S-111 CONCRETE CRUSHER; AND A-111 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23350, Part 2	Y		30,000 tons of concrete in any consecutive twelve month period	BAAQMD Condition #23350, Part 6	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23350, Part 4	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23350, Part 4	C	Observation of Source in Operation
PM	BAAQMD Condition #23350, Part 5			Application of dust suppressant to all unpaved on-site truck routes to and from the concrete and asphalt recycling operations to maintain a PM control efficiency of 75 % by weight	BAAQMD Condition #23350, Part 6	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – J
Applicable Limits and Compliance Monitoring Requirements
S-112 CRUSHED CONCRETE SCREENER; AND A-112 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23351, Part 2	Y		30,000 tons of concrete in any consecutive twelve month period	BAAQMD Condition #23351, Part 5	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23351, Part 4	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23351, Part 4	C	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – K
Applicable Limits and Compliance Monitoring Requirements
S-113 CONCRETE/ASPHALT STORAGE PILES; AND A-113 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23352, Part 1	Y		30,000 tons of concrete in any consecutive twelve month period	BAAQMD Condition #23352, Part 4	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23352, Part 3	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23352, Part 3	C	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – L
Applicable Limits and Compliance Monitoring Requirements
S-114 CONVEYORS (CRUSHED CONCRETE); AND A-114 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23353, Part 2	Y		30,000 tons of concrete in any consecutive twelve month period	BAAQMD Condition #23353, Part 5	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23353, Part 4	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23353, Part 4	C	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – M
Applicable Limits and Compliance Monitoring Requirements
S-115 WOOD/YARD WASTE SHREDDER (TUB GRINDER); AND A-115 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23354, Part 2	Y		19,000 tons of wood waste in any consecutive twelve month period	BAAQMD Condition #23354, Part 7	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23354, Part 4	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23354, Part 4	C	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – N
Applicable Limits and Compliance Monitoring Requirements
S-116 WOOD WASTE SCREENER; AND A-116 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23355, Part 1	Y		19,000 tons of wood waste in any consecutive twelve month period	BAAQMD Condition #23355, Part 4	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23355, Part 3	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23355, Part 3	C	Observation of Source in Operation

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – O
Applicable Limits and Compliance Monitoring Requirements
S-117 COMPOSTING OPERATION; AND A-117 WATER SPRAY TRUCK

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23356, Part 1	Y		19,000 tons of wood waste in any consecutive twelve month period	BAAQMD Condition #23356, Part 5	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23356, Part 3	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23356, Part 3	C	Observation of Source in Operation
PM	BAAQMD Condition #23356, Part 4			Application of dust suppressant or water to all unpaved on-site truck routes to and from the composting operation to maintain a PM control efficiency of 75 % by weight	BAAQMD Condition #23356, Part 5	P/E	Records

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII –P
Applicable Limits and Compliance Monitoring Requirements
S-118 CRUSHING OF ASPHALT DEBRIS; AND A-118 WATER SPRAY SYSTEM

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put	BAAQMD Condition #23357, Part 1	Y		5,000 tons of asphalt in any consecutive twelve month period	BAAQMD Condition #23357, Part 4	P/E	Records
Opacity	BAAQMD 6-1-301	N		Ringelmann 1.0 for 3 minutes in any hour	BAAQMD Regulation 6-1-401 and BAAQMD Condition #23357, Part 3	C	Observation of Source in Operation
Opacity	SIP 6-301	Y		Ringelmann 1.0 for 3 minutes in any hour	SIP 6-401 and BAAQMD Condition #23357, Part 3	C	Observation of Source in Operation

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 included 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 6-1-301 and SIP 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions or US EPA Method 9 Visual Determination of the Opacity of Emissions from Stationary Sources
BAAQMD 6-1-310 and SIP 310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate**;** or US EPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources
BAAQMD 8-8-301.3	OC Vapor Recovery System, collection and removal efficiency limit	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-8-303	Gauging and Sampling Devices	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-114	Energy Recovery Device and Emission Control System	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 8-34-301.2	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 8-34-301.4	Limits for Other Emission Control Systems	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

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
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 8-47-301	Emission Control Requirement, Specific Compounds	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
BAAQMD 8-47-302	Organic Compounds	Manual of Procedures, Volume IV, ST-7, Organic Compounds; or EPA Reference Method 25 or 25A
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
BAAQMD 9-1-302	General Emission Limitation (SO_2)	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling
BAAQMD 9-2-301	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-8-302.1	Waste Derived Fuel Gas NOx Limits for Lean Burn Engines	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD 9-8-302.3	Waste Derived Fuel Gas CO Limits	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, 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
40 CFR 60.752 (b)(2)(iii)(B)	NMOC Outlet Concentration and Destruction Efficiency Limits	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases
40 CFR 60.753(b)	Wellhead Pressure	APCO Approved Device
40 CFR 60.753(c)	Temperature, N_2, and O_2 concentration in wellhead gas	EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60.753(d)	Methane Limit at Landfill Surface	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD Condition # 5771, Part 4	NO_x Emissions Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 5771, Part 5	CO Emissions Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 5771, Part 6	NMOC Emissions Limit	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 Condition # 5771, Part 7	Engine Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition # 5771, Part 8	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 5771, Part 9
BAAQMD Condition # 5771, Part 10	Engine Temperature Limit	APCO Approved Thermocouples
BAAQMD Condition #23220, Part 4	POC Leak Limit for Valves, Flanges, and Pumps	EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD Condition #23220, Part 5	Replacement requirements for second to last carbon adsorber	APCO Approved Organic Vapor Analyzer, Flame Ionization Detector (OVA-FID) and APCO Approved Procedures Described in BAAQMD Condition # 7463, Parts 9 and 10
BAAQMD Condition #23220, Part 6	Replacement requirements for last carbon adsorber	APCO Approved Organic Vapor Analyzer, Flame Ionization Detector (OVA-FID) and APCO Approved Procedures Described in BAAQMD Condition #23220, Part 8
BAAQMD Condition # 17812, Part 2	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 17812, Part 11c

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Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 17812, Part 5	NO_x Emissions Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17812, Part 6	CO Emissions Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition # 17812, Part 8	Engine Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition # 17812, Part 10	Engine Temperature Limit	APCO Approved Thermocouples
BAAQMD Condition # 25293, Part 8	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 17821, Part 8
BAAQMD Condition # 25293, Part 9	Flare Combustion Temperature Limit	APCO Approved Device
BAAQMD Condition # 25293, Part 10	Landfill Gas Sulfur Content Limit	Draeger Tube: used in accordance with manufacturer's recommended procedures
BAAQMD Condition # 25293, Part 11	Flare Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition # 25293, Part 12	Landfill Gas Characterization Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography

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Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 25293, Part 13	Toxic Compound Concentration Limits (in landfill gas)	APCO approved sampling procedures described in BAAQMD Condition #25293, Part 12 and GC Analysis for all compounds listed in Part 13
BAAQMD Condition #25293, Part 9	Flare Combustion Temperature Limit	APCO Approved Device
BAAQMD Condition #25293, Part 16	Flare NO_x Emissions Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition #25293, Part 17	Flare CO Emissions Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Condition #25293, Part 10	Landfill Gas Sulfur Content Limit	Manual of Procedures, Volume III, Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods, or ASTM D 1072-80 or 90, D 3031-81, D 4084-82 or 94, or D 3246-81, 92, or 96
BAAQMD Condition #25293, Part 11	Flare Source Test	Outlet: Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen, Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous Sampling; ST-6, Carbon Monoxide, Continuous Sampling; Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; and Manual of Procedures, Volume IV, ST-7, Organic Compounds or EPA Reference Methods 18, 25, 25A, or 25C; Inlet: EPA Reference Method 3C
BAAQMD Condition #25293, Part 12	Landfill Gas Characterization Test	EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography; and Manual of Procedures, Volume III, Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods, or ASTM D 1072-80 or 90, D 3031-81, D 4084-82 or 94, or D 3246-81, 92, or 96
BAAQMD Condition #25293, Part 13	Toxic Compound Concentration Limits (in landfill gas)	APCO approved sampling procedures described in BAAQMD Condition # 20754, Part 9 and GC Analysis for all compounds listed in Part 10
BAAQMD Condition # 25293, Part 2	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions

VIII. Test Methods

Table VIII
Test Methods

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Condition # 25293 Part 7	Methane and Oxygen Concentrations in Gas at Wellheads	US EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen and Oxygen from Stationary Sources
BAAQMD Condition # 22792, Part 3	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions

IX. PERMIT SHIELD

Not Applicable

X. REVISION HISTORY

Title V Permit Issuance (Application # 25834): **May 29, 2002**

Reopening (Application # 10391): **September 29, 2004**

- Correct contact information on the title page.
- Update standard language in Sections I, III, and VIII.
- Correct regulatory references and amendment dates in Section I and Tables III, IV-A, IV-B, IV-C, IV-D, IV-E, and IV-F.
- Delete outdated SIP requirements and future effective dates that have passed in Tables II-B, III, IV-A, IV-B, IV-F, VII-A, VII-B, VII-F, and VIII.
- Incorporate new BAAQMD amendments and SIP requirements in Tables III, IV-A, IV-B, and IV-F.
- Add several recently identified generally applicable regulations to Table III.
- Add MSW Landfill NESHAP requirements to Tables IV-A, IV-B, IV-F, VII-A, VII-B, and VII-F.
- Correct errors by deleting Regulation 8-34-501.3 and 507 from the applicable requirements for landfill gas fired engines in Tables IV-A, IV-F, VII-A, and VII-F and the basis for Conditions # 5771, Part 10 and # 17812, Part 10.
- Delete obsolete NMOC and THC requirements from Condition # 5771, Parts 6 and 7 and Table VIII.
- Revise Condition # 5771, Part 10 for consistency with MFR permit revision procedures in Regulation 2, Rule 6.
- Clarify text in Condition # 17812, Part 4.
- Delete Condition # 17812, Parts 5 and 8 and associated test methods in Table VIII, because these POC and THC requirements are obsolete. Revise subsequent part numbers in Condition # 17812 and Tables IV-F, VII-F, and VIII. Revise the new Condition # 17821, Part 8 to eliminate obsolete THC testing requirements.
- Revise Condition # 17821, Parts 2, 12, and 13 and Table IV-B to correct the basis for these parts.
- Clarify an equation in Condition # 17821, Part 3.
- Clarify text in Condition # 17821, Part 5.
- Revise Condition # 17821, Part 9 for consistency with MFR permit revision procedures in Regulation 2, Rule 6.
- Revise Condition # 17821, Part 11 to eliminate obsolete THC testing requirements.
- Clarify Condition # 17821, Part 12 by specifically listing

X. Revision History

the organic compounds requiring analysis (instead of referring to the AP-42 table) and adding the AB-2588 Hot Spots Act to the basis.
- Revise Condition # 17821 and Table IV-A by adding Part 15. This part requires semi-annual reports pursuant to the above NESHAP requirements and allows these reports to be combined with the Title V semi-annual monitoring reports.
- An alternate method was added for BAAQMD Regulation 6-310, Particle Weight Limitation.
- In Table VIII, delete an obsolete test method reference for sulfur dioxide, and add the missing test method references for Conditions # 5771, Part 7, # 17812, Part 8, and # 17821, Parts 11 and 12.
- Add Section X Revision History and revise subsequent section numbers.
- Add and correct several terms in Section XI Glossary.

Administrative Amendment (Application # 10516): **September 29, 2004**

- Replace the Responsible Official for this site.

Minor Revision (Applications # 2789 and # 8514): **October 26, 2005**

- Correct the District contact person on the Title Page.
- Update regulatory amendment dates in Section I.A.
- Clarify standard conditions by adding Section I.B.12 and by revising Section I.G.
- Correct the bases for Sections I.B.11, I.E.2, and I.F.
- Add S-46 to Table II-A.
- Add A-11 and correct a limit for A-8 in Table II-B.
- Correct a typographical error and add web site address to Section III.
- Correct errors, update regulatory amendment dates, and include new non-federally enforceable generally applicable requirements in Table III.
- Correct a typographical error and add web site address to Section IV.
- Update regulatory amendment dates in Tables IV-A, IV-B, IV-E, and IV-F.
- Add Table IV-G for S-46 and A-11.
- Delete subpart b of Condition # 17821, Part 6, because the subpart is no longer necessary.
- Add Condition # 20754 for S-46 and A-11.

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- Add Table VII-G for S-46 and A-11.
- Add all applicable test methods for S-46 and A-11 to Table VIII.
- Update the revision history in Section X.
- Add several terms to the glossary in Section XI.
- Correct the web site address listed in Section XII.

Significant Revision (Applications # 11375 and 13247): **October 17, 2006**

- Correct responsible official, contact person, type of facility and Division name on the title page
- Update S5, S6, S15, S22 through S30, S37, and S38 through S40 operating capacity limits in Table II-A, Section VI Permit Condition #5771 Part 8, #7463 Part 5, Condition #17812 Part 2, Condition #17821 Part 1 and Tables VII-A through F
- Add S50 in Tables II-A, IV-H and VII-H, and Section VI Permit Condition #22792 for S50 and A50
- Add A50 in Table II-B
- Correct typo for Condition Part reference in the Applicable Requirement column for A1 through A6 in Table II-B
- Update A8 operating capacity in Tables II-B and Section VI Permit Condition #17821 Part 8 and Table VII-B
- Update regulatory amendment dates for BAAQMD Regulation 8, Rule 2 and 40CFR Part 61, Subpart A and M in Table III
- Delete references to 40 CFR Part 60, Subpart Cc and add references to 40 CFR Part 60, Subpart WWW in Table IV-A, B, F, G
- Update regulatory amendment date for 40 CFR Part 63, Subpart A in Tables IV-A, IV-B and IV-F, for BAAQMD Regulation 8 Rule 2 in Tables IV-B, IV-D, and for BAAQMD Regulation 8 Rule 8 in Tables IV-C
- Add Offsets as a basis for BAAQMD Condition #5771 Parts 4 and 8 in Table IV-A and Section VI, BAAQMD Condition # 17812 Part 5 in Table IV-F and Section VI
- Add Cumulative Increase as a basis for BAAQMD Condition #17821, Parts 1 and 10 in Table IV-B and Section VI
- Modify Section VI Permit Condition #5771 Part 2, Condition #17812 Part 4 and Condition #17821, Part 8 to allow the concurrent operation of the flare, A8, and engines, S5, S6 and S37

X. Revision History

- Modify Section VI Permit Condition #5771 Part 4 and Condition #17812 Part 5, and Table VII-A and Table VII-F to reduce NOx emission limit from the engines.
- Modify Section VI Permit Condition #17821 Part 10 and Table VII-B to limit total reduced sulfur in the collected landfill gas
- Modify Section VI Permit Condition #17821 Part 12 to specify organic compounds to be analyzed for in the landfill gas; and Part 13 to add Perchloroethylene to the list of specific organic compounds limits that would trigger the requirement for a permit application for a change in conditions
- Add applicable limits and compliance monitoring requirements of 40 CFR Part 60, Subpart WWW to Tables VII-A, B, F and G
- Correct CO emission limit in Table VII-A
- Add test methods for the applicable requirements of 40 CFR Part 60, Subpart WWW and BAAQMD Condition #22792, Part 3 to Tables VIII

Adminstrative Amendment (Applications # 14772 and 13247): December 13, 2006

- Change responsible official from Bryce Howard to Kevin Finn
- Change description of collectors and wells and counts for S15 Landfill in Table IIA.
- Change status of S50 Solid Waste Transfer Station and A50 Water Mist System from under Authority to Construct to permitted source in Tables IIA and IIB
- Modify Table IVH to removed future effective date for the S50 Solid Waste Transfer Station and A50 Water Mist System and to reflect that the S15 landfill source no longer accepts waste in the description of the BAAQMD Permit #22792 Parts 5, 6 and 7
- Modify Section VI Permit Condition #17821 Part 6 for S15 to reflect current well and collector counts and future changes
- Modify Section VI Permit condition #22792 Parts 5, 6 and 7 to reflect that the S15 landfill source no longer accepts waste and the limit on vehicle trips are do not apply to S15, but to S50 only and to allow for a higher maximum one day vehicle count, but a lower annual vehicle count.

X. Revision History

MFR Permit Renewal (Application # 15376), December 20, 2010

Minor Revision (NSR Application # 14339)

- Previous conditions allow only S15 landfill gas to be combusted at the A8 flare and the S5, S6 and S37 IC engines; and only S46 landfill gas to be combusted at the A11 flare. This NSR application included permit condition changes to allow flexibility to combust landfill gas generated from either landfill, S15 or S46, at any of the flares, A8 and A11, or IC engines, S5, S6 and S37.

Significant Revision (NSR Application # 14621)

- Include sources that had been permitted under site number A198.

Minor Revision (NSR Application # 14473, 14622, 14848, 14966)

- Replacement of leachate treatment facility sources.

Administrative Amendment (NSR Application # 15702)

- Change permit conditions to reflect change in composition of LFG.

MFR Revision (Application # 18135), June 1, 2017

- Correct facility address and contact information on Title Page
- Correct Engineering Contact and Issuer on Title Page
- Update amendment dates in Section I.A and in Tables III and IV-A-C,
- Update addresses and make other editorial corrections to Sections I.B, F, and G
- Update description on S-15 in Table II-A
- Update list of sources controlled by A-20 and A-21 in Table II-B
- Revise titles for Tables IV-G and IV-H to be consistent with titles for Tables VII-G and VII-H
- Reflect other source and abatement device changes noted below in Tables II-A-B, IV-A-P, and VII-A-P
- Reflect permit condition changes and regulation updates discussed below in Tables II-A-B, IV-A-P, VII-A-P, and VIII
- Include all changes for Application # 18135 in Section X.

Minor Revision (NSR Application 17593)

- No change required-facility provided updated Plans for Landfill gas collection and control system

Minor Revision (NSR Application # 18127)

- Change permit condition #5771 Part 10 to allow temperature range increase for sources S-5 and S-6
- Change permit condition #17812 Part 10 to allow temperature range increase for source S-37 and allow more flexibility for annual source test for S-37 under Part 8

X. Revision History

- Change Condition #17821 Part 11 for A-8 to allow flexibility for annual source testing

Minor Revision (NSR Application # 18128)

- Altering language in Condition # 17821 Part 6 to allow increase in vertical wells, horizontal collectors, Part 6(b) to allow potential increase in vertical wells and potential decrease in decommission of vertical wells and horizontal collectors and connection of LCRS to landfill gas unit

Minor Revision (NSR Application # 20621)

- Modification to leachate treatment system and installation of air strippers and archiving of various sources (S-21, S-41, S-73, S-75, S-48, S-76, A-12 and A-13);

Minor Revision (NSR Application # 21424)

- Change Condition # 17821 for S-11 to Condition # 25293, modify conditions for S-15 to allow less than continuous operations for various well heads per Part 7; and remove parts that are not applicable since the landfill has been closed (Parts 2 and 3 per previous Condition # 17821)

Minor Revision (NSR Application # 21826)

- Landfill Gas Flare replacement A-120 and backup A-8, archive A-11; conditions have been modified; resulted in conditions for S-5 and S-6 and S-37 also being modified as a result of installation of A-120. Conditions # 17812 and Cond #5771 have been altered. Condition #5771 Parts 2, 8, 9 and 10; Condition # 17812 Parts 4, 8, 9 and 10; and for S-15: Condition # 17821 Parts 1, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19; Delete S-46 and Condition # 20754

Minor Revision (NSR Application # 23888)

- Change in Condition # 17812 Part 4 for source S-117 to allow alternate dust control/suppressant (water)

XI. GLOSSARY

ACT
Federal Clean Air Act

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

ARB
Air Resources Board

ATCM
Airborne Toxic Control Measure

BAAQMD
Bay Area Air Quality Management District

BACT
Best Available Control Technology

BARCT
Best Available Retrofit Control Technology

Basis
The underlying authority which allows the District to impose requirements.

CAA
The federal Clean Air Act

CAAQS
California Ambient Air Quality Standards

CAPCOA
California Air Pollution Control Officers Association

CARB
California Air Resources Board (same as ARB)

CEQA
California Environmental Quality Act

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

XI. Glossary

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
Carbon Monoxide

CO2 or CO_2
Carbon Dioxide

CT
Combustion Zone Temperature

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

District
The Bay Area Air Quality Management District

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

EG
Emission Guidelines

EO
Executive Order

EPA
The federal Environmental Protection Agency.

Excluded
Not subject to any District Regulations.

Federally Enforceable, FE
All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part

XI. Glossary

60 (NSPS) Part 61, (NESHAPs), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), and also including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FID
Flame Ionization Detector

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

FR
Federal Register

GDF
Gasoline Dispensing Facility

GLM
Ground Level Monitor

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.

Hg
Mercury

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

HWMF
Hazardous Waste Management Facility

LFG
Landfill Gas

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

XI. Glossary

Major Facility
A facility with potential emissions of: (1) at least 100 tons per year of any regulated air pollutant, (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 Act and implemented by District Regulation 2, Rule 6.

MIN or Min.
Minimum

MOP
The District's Manual of Procedures.

MSDS
Material Safety Data Sheet

MSW
Municipal solid waste

MW
Molecular weight

N2 or N_2
Nitrogen

NA
Not Applicable

NAAQS
National Ambient Air Quality Standards

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

NMHC
Non-methane Hydrocarbons (same as NMOC).

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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 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 air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as 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 at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. 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
Total Particulate Matter

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 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.

XI. Glossary

PV or P/V Valve
Pressure / Vacuum Valve

RMP
Risk Management Plan

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 includes all NMHC plus methane (same as TOC).

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 includes all NMOC plus methane (same as THC).

TPH
Total Petroleum Hydrocarbons

TRS
Total Reduced Sulfur

TSP
Total Suspended Particulate

XI. Glossary

VOC
Volatile Organic Compounds

Symbols:

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

Units of Measure:

bbl	=	barrel of liquid (1 bbl = 42 gallons)
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 (7000 grains = 1 pound)
hp	=	horsepower
hr	=	hour
in	=	inches
kg	=	kilograms
lb	=	pound
lbmol	=	pound-mole
M	=	thousand
m^2	=	square meter
m^3	=	cubic meters
Mg	=	mega-grams, 1000 kilograms
min	=	minute
mm	=	millimeter
MM	=	million
MM BTU	=	million BTU
MM cf	=	million cubic feet
mm Hg	=	millimeters of mercury (pressure)
MW	=	megawatts

XI. Glossary

Units of Measure:

µg	=	microgram, one millionth of a gram
ppb	=	parts per billion
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
therms	=	1 therm = 100,000 BTU
yd	=	yard
yd^3	=	cubic yards
yr	=	year