

Bay Area Air Quality Management District

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

FinalProposed

MAJOR FACILITY REVIEW PERMIT

Issued To:

Potrero Hills Landfill, Inc.
Facility #A2039

Facility Address:

3675 Potrero Hills Lane
Suisun City, CA 94585

Mailing Address:

P.O. Box 68
Fairfield, CA 94533

Responsible Official

James Dunbar, District Manager
(707) 432-4621

Facility Contact

James Dunbar, District Manager
(707) 432-4630

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

BAAQMD Permit Division Contact:
Tamiko Endow

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

Signed by Jeff McKay for Jack P. Broadbent

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

September 29, 2011

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 ~~5/4/115/2/01~~);

SIP Regulation 1 - General Provisions and Definitions

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

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on ~~4/18/128/4/01~~);

SIP Regulation 2, Rule 1 - Permits, General Requirements

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

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

(as amended by the District Board on ~~6/15/055/47/00~~);

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

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

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on ~~12/21/045/47/00~~);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

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

BAAQMD Regulation 2, Rule 5 – New Source Review of Toxic Air Contaminants

(as amended by the District Board on 1/6/10)

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

(as amended by the District Board on ~~5/2/01~~ 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 ~~August 15, 2003~~ [enter issuance date] and expires on ~~July 31, 2008~~ [enter 5th anniversary of issuance date]. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than ~~February 29, 2008~~ [enter date 6 months prior to permit expiration date] and no earlier than ~~July 31, 2007~~ [enter date 12 months prior to expiration date]. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after ~~July 31, 2008~~ [enter expiration date].** If 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)

I. Standard Conditions

2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit that the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for

I. Standard Conditions

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 whether it acts through employees, agents, contractors, or subcontractors. \(Regulation 2-6-307\)](#)

C. Requirement to Pay Fees

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

D. Inspection and Entry

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

E. Records

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

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. ~~The first reporting period for this permit shall be August 15, 2003 to January 31, 2004. The report shall be submitted by February 29, 2004. Subsequent~~ Reports shall be for the following periods: February 1st through July 31st and August 1st through January 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

I. Standard Conditions

Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

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

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

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be August 1st ~~to~~ through July 31st. The certification shall be submitted by August 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 permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division
USEPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Attention: Air-3

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

H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be

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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

A. Permitted Source List

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.

**Table II – A
 Permitted Sources**

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

| S-# | Description | Make or Type | Model | Capacity |
|------------------|---|--|----------------------|---|
| S-1 | Potrero Hills Sanitary-MSW Landfill, - Waste Decomposition Process, Equipped with Gas Collection System (Facility # A2039) | An active municipal solid waste disposal site that is equipped with an active landfill gas collection system. | | Maximum Design Capacity = 21.8 E6 yd ³ Maximum Cumulative Amount of Decomposable Materials in Landfill = 13.1 million tons Maximum Waste Acceptance Rate = 4,430 tons/day Vertical Wells = 54 Horizontal Collectors = 24 |
| S-12 | Diesel IC Engine for Power Generation | John Deere | 6081AF001 | 225 BHP, 496 in³, and 12 gallons/hr of diesel oil |
| S-13 | Diesel IC Engine for Power Generation | John Deere | 6081AF001 | 225 BHP, 496 in ³ , and 12 gallons/hr of diesel oil |
| S-14 | Non-Retail Gasoline Dispensing Facility (G# 4086411138) | Two Point Phase I/ Husky V Phase II Balance Vapor Recovery | | 500-550 gallon capacity aboveground tank, 1 gasoline nozzle, 940,000 gal/yr |
| S-202 | Potrero Hills MSW Landfill – Waste and Cover Material Dumping | An active municipal solid waste disposal site | | Maximum Waste Acceptance Rate = 4,430 tons/day |
| S-203 | Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting | An active municipal solid waste disposal site | | Maximum Waste Acceptance Rate = 4,430 tons/day |

II. Equipment

B. Abatement Device List

**Table II – B
 Abatement Devices**

| A-# | Description | Source(s) Controlled | Applicable Requirement | Operating Parameters | Limit or Efficiency |
|-----|---|-------------------------|---|---|--|
| A-2 | Landfill Gas Flare, 45 MM BTU/hr (Facility # A9013) | S-1 | BAAQMD Regulation 8-34-301.3, see also Table IV-A | Minimum combustion zone temperature of 1400 °F (1660 °F effective 5/1/03), averaged over any 3 hour period ; see also Table VII-A | Either 98% destruction of NMOC or < 30 ppmv NMOC (as CH ₄ at 3% O ₂ , dry) |

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. 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 [the](#) SIP requirements ~~are posted is~~ on [the](#) 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 the rule until US EPA has reviewed and approved the District's revision of the regulation.

**Table III
 Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|--|---|-----------------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/4/115/2/01) | N |
| SIP Regulation 1 | General Provisions and Definitions (6/28/99) | Y |
| BAAQMD Regulation 2, Rule 1 | Permits – General Requirements (4/18/128/4/01) | N |
| BAAQMD 2-1-429 | Permits – General Requirements: Federal Emissions Statement (12/21/046/7/95) | Y N |
| SIP Regulation 2, Rule 1 | Permits – General Requirements (1/26/99) | Y |
| SIP Regulation 2-1-429 | Permits – General Requirements: Federal Emissions Statement (4/3/95) | Y |

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|--|--|-----------------------------|
| BAAQMD Regulation 2, Rule 5 | Permits – New Source Review of Toxic Air Contaminants (1/6/10) | <u>N</u> |
| BAAQMD Regulation 4 | Air Pollution Episode Plan (3/20/91) | <u>N</u> |
| SIP Regulation 4 | Air Pollution Episode Plan (8/6/90) | <u>Y</u> |
| BAAQMD Regulation 5 | Open Burning (7/9/08 4/02) | N |
| SIP Regulation 5 | Open Burning (9/4/98) | Y |
| BAAQMD Regulation 6, Rule 1 | Particulate Matter – General Requirements (12/5/07) | N |
| BAAQMD-SIP Regulation 6 | Particulate Matter and Visible Emissions (12/19/99 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 6/15/94) | Y N |
| SIP Regulation 8, Rule 2 | Organic Compounds – Miscellaneous Operations (3/22/95) | <u>Y</u> |
| BAAQMD Regulation 8, Rule 3 | Organic Compounds – Architectural Coatings (7/1/09 11/21/01) | N |
| SIP Regulation 8, Rule 3 | Organic Compounds – Architectural Coatings (1/2/04 2/18/98) | Y |
| BAAQMD Regulation 8, Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (10/16/02) | Y N |
| SIP Regulation 8, Rule 4 | Organic Compounds – General Solvent and Surface Coating Operations (12/23/97) | Y |
| BAAQMD Regulation 8, Rule 5 | Organic Compounds – Storage of Organic Liquids (10/18/06) | <u>N</u> |
| SIP Regulation 8, Rule 5 | Organic Compounds – Storage of Organic Liquids (6/5/03) | <u>Y</u> |
| BAAQMD Regulation 8, Rule 15 | Organic Compounds – Emulsified and Liquid Asphalts (6/1/94) | <u>Y</u> |
| BAAQMD Regulation 8, Rule 16 | Organic Compounds – Solvent Cleaning Operations (10/16/02) | Y N |
| SIP Regulation 8, Rule 16 | Organic Compounds – Solvent Cleaning Operations (12/9/94) | Y |
| BAAQMD Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05) | <u>N</u> |
| SIP Regulation 8, Rule 40 | Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01) | <u>Y</u> |

III. Generally Applicable Requirements

**Table III
 Generally Applicable Requirements**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|--|---|------------------------------------|
| BAAQMD Regulation 8, Rule 47 | Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05) | <u>N</u> |
| SIP Regulation 8, Rule 47 | Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95) | <u>Y</u> |
| 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) | <u>N</u> |
| SIP Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99) | <u>Y</u> |
| BAAQMD Regulation 9, Rule 2 | Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99) | <u>N</u> |
| BAAQMD Regulation 11, Rule 1 | Hazardous Pollutants – Lead (3/17/82) | N |
| SIP Regulation 11, Rule 1 | Hazardous Pollutants – Lead (9/2/81) | Y |
| BAAQMD Regulation 11, Rule 2 | Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (10/7/98) | N |
| BAAQMD Regulation 11, Rule 14 | Hazardous Pollutants – Asbestos Containing Serpentine (7/17/91) | N |
| BAAQMD Regulation 12, Rule 4 | Miscellaneous Standards of Performance – Sandblasting (7/11/90) | N |
| SIP Regulation 12, Rule 4 | Miscellaneous Standards of Performance – Sandblasting (9/2/81) | Y |
| California Health and Safety Code Section 41750 et seq. | Portable Equipment | <u>N</u> |
| California Health and Safety Code Section 44300 et seq. | Air Toxics “Hot Spots” Information and Assessment Act of 1987 | N |
| California Health and Safety Code, Title 17, Section 93105 | Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations (7/26/01) | <u>N</u> |
| California Health and Safety Code, Title 17, Section 93106 | Asbestos Airborne Toxic Control Measure for Asbestos Containing Serpentine (7/20/00) | <u>N</u> |
| California Health and Safety Code, Title 17, Section 93116 | Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11) | <u>N</u> |

III. Generally Applicable Requirements

Table III
Generally Applicable Requirements

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) |
|---|--|------------------------------------|
| 40 CFR Part 61, Subpart A | National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10) | <u>Y</u> |
| 40 CFR Part 61, Subpart M | National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/046/19/95) | Y |

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

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

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

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

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

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

All other text may be found in the regulations themselves.

Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS,
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|----------------------------|---|-----------------------------|-----------------------|
| BAAQMD Regulation 1 | General Provisions and Definitions (5/4/115/2/2001) | | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | N | |
| 1-523.1 | Parametric monitor periods of inoperation | Y | |
| 1-523.2 | Limit on periods-duration of inoperation | Y | |
| 1-523.3 | <u>Reporting requirement for violations of any applicable limits</u> Reports of Violations | N | |
| 1-523.4 | Records <u>of inoperation, tests, calibrations, adjustments, & maintenance</u> | Y | |
| 1-523.5 | Maintenance and calibration | Y | |

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY-MSW LANDFILL – WASTE DECOMPOSITION PROCESS,
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------|--|-----------------------------|-----------------------|
| SIP | | | |
| Regulation 1 | General Provisions and Definitions (6/28/1999) | | |
| 1-523 | Parametric Monitoring and Recordkeeping Procedures | Y ⁺ | |
| 1-523.3 | Reports of Violations | Y ⁺ | |
| <u>BAAQMD</u> | | | |
| <u>Regulation 6,</u> | <u>Particulate Matter – General Requirements (12/5/07)</u> | | |
| <u>Rule 1</u> | | | |
| <u>6-1-301</u> | <u>Ringelmann No. 1 Limitation</u> | <u>N</u> | |
| <u>6-1-305</u> | <u>Visible Particles</u> | <u>N</u> | |
| <u>6-1-310</u> | <u>Particle Weight Limitation (applies to A-2 Flare only)</u> | <u>N</u> | |
| <u>6-1-401</u> | <u>Appearance of Emissions</u> | <u>N</u> | |
| <u>BAAQMD</u> | | | |
| <u>SIP</u> | | | |
| Regulation 6 | Particulate Matter and Visible Emissions (12/19/19994/98) | | |
| 6-301 | Ringelmann No. 1 Limitation | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particle Weight Limitation (applies to A-2 Flare only) | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD | | | |
| Regulation 8, | Organic Compounds – Miscellaneous Operations (7/20/053/22/1995) | | |
| Rule 2 | | | |
| 8-2-301 | Miscellaneous Operations (applies to low -VOC-laden soil handling and disposal activities only) | Y | |
| BAAQMD | | | |
| Regulation 8, | Organic Compounds – Solid Waste Disposal Sites (6/15/0510/6/1999) | | |
| Rule 34 | | | |
| 8-34-113 | Limited Exemption, Inspection and Maintenance | Y | |
| 8-34-113.1 | Emission Minimization Requirement | Y | |
| 8-34-113.2 | Shutdown Time Limitation | Y | |
| 8-34-113.3 | Recordkeeping Requirement | Y | |
| 8-34-116 | Limited Exemption, Well Raising | Y | |
| 8-34-116.1 | New Fill | Y | |

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|---|-----------------------------|-----------------------|
| 8-34-116.2 | Limits on Number of Wells Shutdown | Y | |
| 8-34-116.3 | Shutdown Duration Limit | Y | |
| 8-34-116.4 | Capping Well Extensions | Y | |
| 8-34-116.5 | Well Disconnection Records | Y | |
| 8-34-117 | Limited Exemption, Gas Collection System Components | Y | |
| 8-34-117.1 | Necessity of Existing Component Repairs/Adjustments | Y | |
| 8-34-117.2 | New Components are Described in Collection and Control System Design Plan | Y | |
| 8-34-117.3 | Meets Section 8-34-118 Requirements | Y | |
| 8-34-117.4 | Limits on Number of Wells Shutdown | Y | |
| 8-34-117.5 | Shutdown Duration Limit | Y | |
| 8-34-117.6 | Well Disconnection Records | Y | |
| 8-34-118 | Limited Exemption, Construction Activities | Y | |
| 8-34-118.1 | Construction Plan | Y | |
| 8-34-118.2 | Activity is Required to Maintain Compliance with this Rule | Y | |
| 8-34-118.3 | Required or Approved by Other Enforcement Agencies | Y | |
| 8-34-118.4 | Emission Minimization Requirement | Y | |
| 8-34-118.5 | Excavated Refuse Requirements | Y | |
| 8-34-118.6 | Covering Requirements for Exposed Refuse | Y | |
| 8-34-118.7 | Installation Time Limit | Y | |
| 8-34-118.8 | Capping Required for New Components | Y | |
| 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 <i>(applies to A-2 Flare only)</i> | 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 | |

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY MSW LANDFILL – WASTE DECOMPOSITION PROCESS,
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 8-34-305 | Wellhead Requirements | Y | |
| 8-34-305.1 | <u>Wellhead Operate Under Vacuum Requirements</u> | Y | |
| 8-34-305.2 | <u>Wellhead Temperature <55 °C Limit</u> | Y | |
| 8-34-305.3 | Nitrogen <u><20% Concentration Limit for Wellhead Gas</u> -or | Y | |
| 8-34-305.4 | Oxygen <u><5% Concentration Limit for Wellhead Gas</u> | 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 | |
| 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 | |

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY-MSW LANDFILL – WASTE DECOMPOSITION PROCESS,
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------------------|---|-----------------------------|-----------------------|
| 8-34-501.3 | Continuous Temperature Records for Enclosed Combustors (applies to A-2 Flare) | Y | |
| 8-34-501.4 | Testing | Y | |
| 8-34-501.6 | Leak Discovery and Repair Records | Y | |
| 8-34-501.7 | Waste Acceptance Records | Y | |
| 8-34-501.8 | Non-decomposable Waste Records | Y | |
| 8-34-501.9 | Wellhead Excesses and Repair Records | Y | |
| 8-34-501.10 | Gas Flow Rate Records for All Emission Control Systems | Y | |
| 8-34-501.12 | Records Retention for 5 Years | Y | |
| 8-34-503 | Landfill Gas Collection and Emission Control System Leak Testing | Y | |
| 8-34-504 | Portable Hydrocarbon Detector | Y | |
| 8-34-505 | Well Head Monitoring | Y | |
| 8-34-506 | Landfill Surface Monitoring | Y | |
| 8-34-507 | Continuous Temperature Monitor and Recorder d | 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 (3/15/1995) | | |
| 9-1-301 | Limitations on Ground Level Concentrations (applies to A-2 Flare only) | Y | |
| 9-1-302 | General Emission Limitations (applies to A-2 Flare only) | Y | |
| BAAQMD Regulation 9, Rule 2 | Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/1999) | | |
| 9-2-301 | Limitations on Hydrogen Sulfide | N | |
| 40 CFR Part 60, Subpart A | Standards of Performance for New Stationary Sources – General Provisions (9/13/105/4/1998) | | |
| 60.4 | Address | Y | |
| 60.4(b) | Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator | Y | |
| 60.7 | Notification and Record Keeping | Y | |

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Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY-MSW LANDFILL – WASTE DECOMPOSITION PROCESS,
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-----------------------------------|---|-----------------------------|-----------------------|
| 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 Cc | Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/1999) | | |
| 60.36c | Compliance Times | <u>Y</u> | |
| 60.36c(a) | Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions \geq 50 MG/year | Y | |
| 40 CFR Part 62, Subpart F | Approval and Promulgation of State Plans for Designated Facilities and Pollutants – California (4/20/06/20/2001) | | |
| 62.1100 | Identification of Plan | <u>Y</u> | |
| 62.1115 | Identification of Sources – Existing Municipal Solid Waste Landfills | Y | |
| 40 CFR Part 63, Subpart A | National Emission Standards for Hazardous Air Pollutants: General Provisions (9/13/103/16/1994) | | |
| 63.4 | Prohibited activities and circumvention | Y | |
| 63.5 | Preconstruction review and notification requirements | <u>Y</u> | |

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Table IV – A
Source-Specific Applicable Requirements
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S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------------|--|-----------------------------|-----------------------|
| 63.5(b) | Requirements for existing, newly constructed, and reconstructed sources | Y | |
| <u>63.6</u> | <u>Compliance with standards and maintenance requirements</u> | <u>Y</u> | |
| 63.6(e) | Operation and maintenance requirements and SSM Plan | Y | |
| 63.6(f) | Compliance with non-opacity emission standards | Y | |
| <u>63.10</u> | <u>Recordkeeping and reporting requirements</u> | <u>Y</u> | |
| <u>63.10(b)</u> | <u>General recordkeeping requirements</u> | <u>Y</u> | |
| <u>63.10(b)(2)</u> | <u>For affected sources, maintain relevant records of</u> | <u>Y</u> | |
| 63.10(b)(2)(i-v) | Records for startup, shutdown, malfunction, and maintenance | Y | |
| <u>63.10(d)</u> | <u>General reporting requirements</u> | <u>Y</u> | |
| 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 (<u>4/20/06/16/2003</u>) | | |
| 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 | |
| <u>63.1955(a)</u> | <u>Comply with either 63.1955(a)(1) or (a)(2)</u> | <u>Y</u> | |
| 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 | |

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Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY-MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM; ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|---|-----------------------------|-----------------------|
| 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 #1948 | | | |
| Part 1 | Design capacity and waste acceptance rate limits (Regulations 2-1-301 and 2-1-234) | Y | |
| Part 2 | Acceptance criteria for soils containing VOCs (Regulation 8-40-301) | Y | |
| Part 3 | Emission limit for low VOC soils (Regulation 8-2-301) | Y | |
| Part 4 | Particulate emission control measures (Regulations 2-1-403, 6-1-301, and 6-1-305) | Y | |
| Part 5 | Control requirements for collected landfill gas (Regulation 8-34-301) | Y | |
| Part 6 | Landfill gas collection system modification-description and operating requirements (Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, and 8-34-305-) | Y | |
| Part 7 | Landfill gas collection system operating requirements (Regulation 8-34-301.1) | Y | |
| Part 8 | Flare heat input limits (Regulation 2-1-301) | Y | |
| Part 9 | Flare temperature limit (Toxic Risk Management Policy and Regulation 8-34-301.3) | Y | |
| Part 10 | Landfill gas sulfur content limit and monitoring requirements (Regulation 9-1-302) | Y | |
| Part 11 | Annual source test (Regulations <u>2-1-301</u> , 8-34-301.3 and 8-34-412, <u>9-1-302</u>) | Y | |
| Part 12 | Annual landfill gas characterization test (Toxic Risk Management Policy and Regulations <u>2-5-302 and</u> 8-34-412) | Y | |

IV. Source-Specific Applicable Requirements

Table IV – A
Source-Specific Applicable Requirements
S-1 POTRERO HILLS SANITARY-MSW LANDFILL – WASTE DECOMPOSITION PROCESS,
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ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLOZING, AND COMPACTING
ACTIVITIES

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| Part 13 | Record keeping requirements (Cumulative Increase and Regulations 2-1-301, 2-6-501, 6- 1 -301, 6- 1 -305, 8-2-301, 8-34-301, 8-34-304, and 8-34-501, and 9-1-302) | Y | |
| Part 14 | Waste Acceptance and Handling Requirements (basis: Regulation 2-1-403) | N | |
| Part 15 | Reporting periods and due dates for the Regulation 8, Rule 34 annual report (Regulation 8-34-411 and 40 CFR Part 63.1980(a)) | Y | |
| <u>Part 16</u> | <u>Hydrogen sulfide monitoring (Regulation 9-2-301)</u> | <u>N</u> | |

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

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
S-12, S-13 DIESEL IC ENGINES FOR POWER GENERATION

| 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) | | |
| 6-1-303 | Ringelmann No. 2 Limitation | N | |
| 6-1-303.1 | Internal combustion engines below 1500 cubic inches displacement or standby engines | N | |
| 6-1-305 | Visible Particles | N | |
| 6-1-310 | Particulate Weight Limitation | N | |
| 6-1-401 | Appearance of Emissions | N | |
| BAAQMD SIP Regulation 6 | Particulate Matter and Visible Emissions (12/19/19904/98) | | |
| 6-303 | Ringelmann No. 2 Limitation | Y | |
| 6-303.1 | Internal combustion engines below 1500 cubic inches displacement or standby engines | Y | |
| 6-305 | Visible Particles | Y | |
| 6-310 | Particulate Weight Limitation | Y | |
| 6-401 | Appearance of Emissions | Y | |
| BAAQMD Regulation 9, Rule 1 | Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/1995) | | |
| 9-1-301 | Limitations on Ground Level Concentrations | Y | |
| 9-1-304 | Liquid and Solid Fuels | Y | |
| BAAQMD Regulation 9, Rule 8 | Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07) | | |
| 9-8-304 | Emission Limits – Compression-Ignition Engines | N | |
| 9-8-304.2 | Emission Limits – Compression-Ignition Engines > 175 bhp | N | |
| 9-8-305 | Emission Limits –Delayed Compliance, Existing Compression-Ignition Engines, Model Year 1996 or Later | N | |
| 9-8-401 | Compliance Schedule | N | |
| 9-8-402 | Reporting Requirements for Delayed Compliance | N | |
| 9-8-501 | Initial Demonstration of Compliance | N | |
| 9-8-502 | Recordkeeping | N | |
| 9-8-503 | Quarterly Demonstration of Compliance | N | |

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
~~S-12, S-13~~ DIESEL IC ENGINES FOR POWER GENERATION

| 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) | | |
| 9-8-110 | Exemptions | Y | |
| 9-8-110.2 | Exemption – engines fired exclusively by liquid fuels | Y | |
| 40 CFR, Part 63, Subpart ZZZZ | National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (6/15/04) | | |
| 63.6585 | Applicability | Y | |
| 63.6590 | Affected sources | Y | |
| 63.6595 | Compliance dates | Y | |
| 63.6595(a) | Affected Sources | Y | |
| 63.6595(a)(1) | Compliance times for existing stationary CI RICE located at an area source | Y | 5/3/13 |
| 63.6603 | Emission limitations and operating limitations | Y | 5/3/13 |
| 63.6603(a) | Comply with requirements in Table 2d.1 | Y | 5/3/13 |
| 63.6605 | General compliance requirements | Y | 5/3/13 |
| 63.6605(a) | Comply with emission limitations and operating requirements at all times | Y | 5/3/13 |
| 63.6605(b) | Operate safely using good air pollution control practices to minimize emissions | Y | 5/3/13 |
| 63.6612 | Initial performance/compliance demonstration deadlines | Y | |
| 63.6615 | Subsequent performance test dates | Y | |
| 63.6620 | Performance test procedures | Y | |
| 63.6625 | Monitoring, installation, collection, operation, and maintenance requirements | Y | 5/3/13 |
| 63.6625(e) | Operate and maintain the RICE and any required control devices in accordance with manufacturer specifications and maintenance plans | Y | 5/3/13 |
| 63.6625(h) | Minimize idle and start-up times | Y | 5/3/13 |
| 63.6625(i) | Comply with oil change frequency in Table 2d.1 or comply with oil analysis requirements and maintenance plan to extend this oil change frequency | Y | 5/3/13 |
| 63.6630 | How do I demonstrate initial compliance with emission limitations and operating limitations? | Y | 5/3/13 |

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Table IV – B
Source-Specific Applicable Requirements
~~S-12, S-13~~ **DIESEL IC ENGINES FOR POWER GENERATION**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|------------------------|
| 63.6635 | How do I monitor and collect data to demonstrate continuous compliance? | Y | 5/3/13 |
| 63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | Y | 5/3/13 |
| 63.6640(a) | Demonstrate continuous compliance according to methods specified in Table 6 | Y | 5/3/13 |
| 63.6640(b) | Report each instance of non-compliance with an emission or operating limitation from Table 2d | Y | 5/3/13 |
| 63.6640(e) | Report each instance of non-compliance with the applicable general provisions specified in Table 8 | Y | 5/3/13 |
| 63.6645 | Required notifications and deadlines | Y | |
| 63.6650 | Required reports and deadlines | Y | |
| 63.6650(f) | Report all deviations in semi-annual Title V reports and in accordance with all Title V reporting requirements | Y | |
| 63.6655 | Records | Y | |
| 63.6655(a) | Keep records required by (a)(1-5) of this section | Y | |
| 63.6655(d) | Keep records required in Table 6 | Y | |
| 63.6655(e) | Keep records of maintenance conducted | Y | |
| 63.6660 | Record format and retention | Y | |
| 63.6660(a) | Maintain records in a suitable format and have readily available | Y | |
| 63.6660(b) | Retain for at least 5 years | Y | |
| 63.6660(c) | Keep records accessible for 5 years | Y | |
| 63.6665 | Applicable general provisions | Y | |
| Table 2d | Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions | Y | |
| Table 6 | Continuous Compliance with Emission Limitations, Operating Limitations, Work Practices, and Management Practices | Y | |
| Table 8 | Applicability of General Provisions to Subpart ZZZZ | Y | |
| CCR, Title 17, Section 93115 | Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11) | | |
| §93115.2 | ATCM for Stationary CI Engines - Applicability | N | |
| §93115.2(b) | This ATCM applies to any person who owns or operates a stationary CI engine in California with a rated power of > 50 bhp | N | |

IV. Source-Specific Applicable Requirements

Table IV – B
Source-Specific Applicable Requirements
~~S-12, S-13~~ DIESEL IC ENGINES FOR POWER GENERATION

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---------------------------------|--|-----------------------------|-----------------------|
| §93115.5 | Fuel and Fuel Additive Requirements for New and In-Use Stationary CI Engines That Have a Rated Brake Horsepower of Greater Than (>50 bhp) | N | |
| §93115.5(a) | For New Stationary CI Engines or In-Use Prime Stationary CI Engines | N | |
| §93115.7 | Stationary Prime Diesel-Fueled CI Engine (>50 bhp) Emission Standards | N | |
| §93115.7(b) | In-Use Stationary Prime Diesel-Fueled CI Engine (>50 bhp) Emission Standards | N | |
| §93115.7(b)(1) | Diesel PM Standard | N | |
| §93115.7(b)(2) | Additional Standards | N | |
| §93115.10 | Recordkeeping, Reporting and Monitoring Requirements | N | |
| §93115.10(a) | Reporting Requirements for Owners and Operators of New and In-Use Stationary CI Engines > 50 bhp | N | |
| §93115.10(c) | Demonstration of Compliance with Emission Limits | N | |
| §93115.10(c)(2) | Owners and Operators of In-Use Engines Shall Prove Emissions and Operational Data to Demonstrate Compliance | N | |
| §93115.10(e) | Monitoring Equipment | N | |
| §93115.10(e)(1) | Non-resettable Hour Meter Requirements | N | |
| §93115.10(e)(2) | Back pressure monitor requirements for DPFs | N | |
| §93115.10(e)(3) | Other monitoring may be required by the APCO for other control strategies | N | |
| §93115.11 | Compliance Schedule for Owners or Operators of Three or Fewer Engines (> 50 bhp) Within a District | N | |
| §93115.11(b) | Compliance Schedules for Owners not Reducing Operating Hours | N | |
| §93115.13 | Compliance Demonstration | N | |
| §93115.14 | Test Methods | N | |
| §93115.15 | Severability | N | |

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Table IV – B
Source-Specific Applicable Requirements
~~S-12, S-13~~ **DIESEL IC ENGINES FOR POWER GENERATION**

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--------------------------------|--|-----------------------------|-----------------------|
| BAAQMD Condition #18996 | | | |
| Part 1 | Low sulfur fuel requirement, demonstration of sulfur content (Cumulative Increase, and Regulation 9-1-304) | Y | |
| Part 2 | Observation of emissions <u>during operation of</u> source (Regulations 2-1-403, and 6-1-303 and 6-1-401) | Y | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# ~~10861~~11138

| 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 (11/27/2002<u>10/18/06</u>) | | |
| 8-5-116 | Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities | N | |
| 8-5-301 | Storage Tank Control Requirements | N | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | N | |
| 8-5-501 | Records | N | |
| SIP Regulation 8, Rule 5 | Organic Compounds, Storage of Organic Liquids (10/10/2001<u>6/5/03</u>) | | |
| 8-5-301 | Storage Tanks Smaller Than 150 m³ | Y⁺ | |
| 8-5-301.1 | Submerged Fill Pipe | Y⁺ | |
| 8-5-302 | Above Ground Gasoline Storage Tanks Smaller Than 75 m³ | Y⁺ | |
| 8-5-206 | Gas Tight | Y | |
| 8-5-301 | Storage Tank Control Requirements | Y | |
| 8-5-303 | Requirements for Pressure Vacuum Valves | Y | |
| 8-5-303.1 | Pressure Setting | Y | |
| 8-5-303.2 | Gas Tight | Y | |
| 8-5-403 | Inspection Requirements for Pressure Vacuum Valves | Y | |
| 8-5-501 | Records | Y | |
| 8-5-501.1 | Types and amounts of materials stored | Y | |
| 8-5-503 | Portable Hydrocarbon Detector | Y | |
| BAAQMD Regulation 8, Rule 7 | Organic Compounds, Gasoline Dispensing Facilities (11/6/2002) | | |
| 8-7-113 | Tank Gauging and Inspection Exemption | Y | |
| 8-7-114 | Stationary Tank Testing Exemption | Y | |
| 8-7-116 | Periodic Testing Requirements Exemption | <u>NY</u> | |
| 8-7-301 | Phase I Requirements | | |
| 8-7-301.1 | Requirements for Transfers into Stationary Tanks, Cargo Tanks, and Mobile Refuelers | Y | |
| 8-7-301.2 | CARB Certification Requirements | Y | |
| 8-7-301.3 | Submerged Fill Pipe Requirement | Y | |
| 8-7-301.5 | Maintenance and Operating Requirement | Y | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 108611138

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|-------------------------------|--|------------------------------------|------------------------------|
| 8-7-301.6 | Leak-Free and Vapor Tight Requirement for Components | Y | |
| 8-7-301.7 | Fitting Requirements for Vapor Return Line | Y | |
| 8-7-301.8 | Coaxial Phase I Systems Certified by CARB prior to January 1, 1994 may not be installed on New or Modified Systems | Y | |
| 8-7-301.9 | Anti-rotational Coupler or Swivel Adapter Required | Y | |
| 8-7-301.10 | Vapor Recovery Efficiency Requirements for New and Modified Systems | Y | |
| 8-7-301.12 | Spill Box Drain Valve Limitation | Y | |
| 8-7-301.13 | Annual Vapor Tightness Test Requirement | <u>NY</u> | |
| 8-7-302 | Phase II Requirements | | |
| 8-7-302.1 | Requirements for Transfers into Motor Vehicle Fuel Tanks | Y | |
| 8-7-302.2 | Maintenance Requirement | Y | |
| 8-7-302.3 | Proper Operation and Free of Defects Requirements | <u>YN</u> | |
| 8-7-302.4 | Repair Time Limit for Defective Components | <u>YN</u> | |
| 8-7-302.5 | Leak-Free and Vapor Tight Requirement for Components | Y | |
| 8-7-302.6 | Requirements for Bellows Nozzles | Y | |
| 8-7-302.7 | Requirements for Vapor Recovery Nozzles on Balance Systems | Y | |
| 8-7-302.8 | Minimum Liquid Removal Rate | Y | |
| 8-7-302.9 | Coaxial Hose Requirement | Y | |
| 8-7-302.10 | Construction Materials Specifications | <u>YN</u> | |
| 8-7-302.12 | Liquid Retain Limitation | <u>YN</u> | |
| 8-7-302.13 | Nozzle Spitting Limitation | <u>YN</u> | |
| 8-7-302.14 | Annual Back Pressure Test Requirements for Balance Systems | <u>YN</u> | |
| 8-7-302.15 | Annual Testing Requirements for Vacuum Assist Systems | <u>NY</u> | |
| 8-7-303 | Topping Off | Y | |
| 8-7-304 | Certification Requirements | Y | |
| 8-7-306 | Prohibition of Use | <u>NY</u> | |
| 8-7-307 | Posting of Operating Instructions | Y | |
| 8-7-308 | Operating Practices | Y | |
| 8-7-309 | Contingent Vapor Recovery Requirement | Y | |
| 8-7-313 | Requirements for New or Modified Phase II Installations | Y | |
| 8-7-314 | Hold Open Latch Requirements | Y | |
| 8-7-316 | Pressure Vacuum Valve Requirements, Aboveground Storage Tanks and Vaulted Below Grade Storage Tanks | Y | |
| 8-7-401 | Equipment Installation and Modification | Y | |
| 8-7-406 | Testing Requirements, New and Modified Installations | Y | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# [108611138](#)

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|--|-----------------------------|-----------------------|
| 8-7-407 | Periodic Testing Requirements | <u>YN</u> | |
| 8-7-408 | Periodic Testing Notification and Submission Requirements | <u>YN</u> | |
| 8-7-501 | Burden of Proof | Y | |
| 8-7-502 | Right of Access | Y | |
| 8-7-503 | Recordkeeping Requirements | Y | |
| 8-7-503.1 | Gasoline Throughput Records | Y | |
| 8-7-503.2 | Maintenance Records | Y | |
| 8-7-503.3 | Records Retention Time | <u>NY</u> | |
| SIP Regulation 8, Rule 7 | <u>Organic Compounds, Gasoline Dispensing Facilities (7/25/2001)</u> | | |
| 8-7-302.3 | Proper Operation and Free of Defects Requirements | Y⁺ | |
| 8-7-302.4 | Repair Time Limit for Defective Components | Y⁺ | |
| 8-7-302.10 | Construction Materials Specifications | Y⁺ | |
| 8-7-302.12 | Liquid Retain Limitation | Y⁺ | |
| 8-7-302.13 | Nozzle Spitting Limitation | Y⁺ | |
| 8-7-306 | Prohibition of Use | Y⁺ | |
| 8-7-503.3 | Records Retention Time | Y⁺ | |
| <u>40 CFR Part 63, Subpart A</u> | <u>National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)</u> | | |
| <u>63.4</u> | <u>Prohibited activities and circumvention</u> | <u>Y</u> | |
| <u>63.5</u> | <u>Preconstruction review and notification requirements</u> | <u>Y</u> | |
| <u>63.5(b)</u> | <u>Requirements for existing, newly constructed, and reconstructed sources</u> | <u>Y</u> | |
| <u>63.6</u> | <u>Compliance with standards and maintenance requirements</u> | <u>Y</u> | |
| <u>63.8</u> | <u>Monitoring requirements</u> | <u>Y</u> | |
| <u>63.10</u> | <u>Record keeping and reporting requirements</u> | <u>Y</u> | |
| <u>63.10(b)</u> | <u>General record keeping requirements</u> | <u>Y</u> | |
| <u>63.10(c)</u> | <u>Additional record keeping requirements for sources with continuous monitoring systems</u> | <u>Y</u> | |
| <u>63.10(d)</u> | <u>General reporting requirements</u> | <u>Y</u> | |
| <u>63.10(e)</u> | <u>Additional reporting requirements for sources with continuous monitoring systems</u> | <u>Y</u> | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# ~~10861~~11138

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 40 CFR Part 63, Subpart CCCCC | National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities (1/24/2011) | | |
| 63.11110 | What is the purpose of this subpart? | Y | |
| 63.11111 | Am I Subject to the requirements in this subpart | Y | |
| 63.11111(a) | Each GDF that is located at an area source | Y | |
| 63.11111(c) | Monthly throughput of 10,000 gallons of gasoline or more- subject to 63.11117 | Y | |
| 63.11111(e) | Demonstrate their monthly throughput level as specified in 63.11112(d) | Y | |
| 63.11111(i) | If throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold | Y | |
| 63.11112 | What parts of my affected source does this subpart cover? | Y | |
| 63.11112(a) | Gasoline storage tanks and associated equipment components in vapor or liquid gasoline service | Y | |
| 63.11112(d) | An affected source is an existing affected source if it is not new or reconstructed | Y | |
| 63.11113 | When do I have to comply with this subpart? | Y | |
| 63.11113(b) | Existing sources: January 10, 2011 | Y | |
| 63.11113(c) | If affected source becomes subject to control requirements in this subpart because of monthly throughput increases per 63.11111(c) , you must comply with standard no later than 3 years after the affected source is subject to control requirements | Y | |
| 63.11113(e) | Initial compliance demonstration test | Y | |
| 63.11113(e)(2) | For existing affected source, you must conduct the initial compliance test as specified in paragraphs (e)(2)(i) | Y | |
| 63.11113(e)(2)(i) | For vapor balance systems installed on or before December 15, 2009, you must test no later than 180 days after the applicable compliance date specified in paragraph c of this section. | Y | |
| 63.11115 | What are my general duties to minimize emissions? | Y | |
| 63.1115(a) | Operate and maintain affected source safety and to minimize emissions | Y | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# ~~10861~~11138

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|------------------------|--|-----------------------------|-----------------------|
| 63.1115(b) | Keep applicable records and submit reports as specified in 63.11125(d) and 63.11126(b) | Y | |
| 63.11116 | Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline | Y | |
| 63.11116(a) | Gasoline handling requirements | Y | |
| 63.11116(a)(1) | Minimize gasoline spills | Y | |
| 63.11116(a)(2) | Clean up spills as expeditiously as practicable | Y | |
| 63.11116(a)(3) | Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use | Y | |
| 63.11116(a)(4) | Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices- such as oil/water separators | Y | |
| 63.11117 | Requirements for facilities with monthly throughput of 10,000 gallons of gasoline or more | Y | |
| 63.11117(a) | Comply with the requirements in section 63.11116(a) | Y | |
| 63.11117(b) | Only load gasoline into storage tanks utilizing submerged filling as defined in 63.11132 and as specified below | Y | |
| 63.11117(b)(1) | Submerged fill pipes installed on or before November 9, 2006 must be no more than 12 inches from the bottom of the tank. | Y | |
| 63.11117(d) | Throughput records available within 24 hours | Y | |
| 63.11117(e) | You must submit the applicable notification as specified in 63.11124(a) | Y | |
| 63.11117(f) | You must comply with the requirements of this subpart by the applicable dates contained in 63.11113 | Y | |
| 63.11124 | What notifications must I submit and when? | Y | |
| 63.11124(a) | If subject to the control requirements in Section 63.11117, you must comply with (a)(1-3) | Y | |
| 63.11124(a)(3) | Waiver of notification requirements if operating in compliance with a local or state requirement | Y | |
| 63.11125 | What are my recordkeeping requirements? | Y | |
| 63.11125(d) | Keep records as specified in paragraphs (d)(1) and (d)(2) of this section | | |
| 63.11125(d)(1) | Records of the occurrence and duration of each malfunction of operation or of air pollution control and monitoring equipment | Y | |
| 63.11125(d)(2) | Records of actions taken during periods of malfunction to minimize emissions in accordance with Section 63.1115(a) | Y | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# ~~10861~~11138

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|---|---|-----------------------------|-----------------------|
| 63.11126 | What are my reporting requirements? | <u>Y</u> | |
| 63.11126(b) | Each owner or operator of an affected source under this subpart shall report by March 15 of each year, the number, duration and a brief description o each type of malfunction which occurred during the previous calendar year and which caused any applicable emission limitation to be exceeded. | <u>Y</u> | |
| 63.11130 | What parts of the General Provisions apply to me? | <u>Y</u> | |
| Table 3 to Subpart CCCCCC of Part 63 | Applicability of General Provisions | <u>Y</u> | |
| BAAQMD Condition #14098 | Gasoline Throughput Limit (Toxic Risk Management Policy) | N | |
| BAAQMD Condition #16516 | Annual Static Pressure Performance Test (Toxic Risk Management Policy) | N | |
| BAAQMD Condition #25107 | Static Pressure Performance Test Requirement (Regulation 8-7-407) | <u>Y</u> | |
| State of California, Air Resources Board, Executive Order G-70-142-B | Certification of a Phase I Vapor Recovery System for Aboveground Gasoline Storage Tanks (9/9/1994) | | |
| Paragraph 11 | Applicability of Order | N | |
| Paragraph 12 | Requirements for Phase I Components | N | |
| Paragraph 13 | Requirements for Fuel Delivery Components | N | |
| Paragraph 14 | Requirement to Comply with Local Air District Rules | N | |
| Paragraph 15 | Requirement to Comply with Local Fire Official's Requirements | N | |
| Paragraph 16 | Leak Free Equipment and Fittings | N | |
| Paragraph 17 | Requirement to Comply with Other Specified Rules and Regulations | N | |
| Paragraph 18 | Prohibition on Alteration of Equipment, Parts, Design, or Operation | N | |
| Paragraph 19 | This Order Supersedes EO G-70-142-A (11/19/92) | N | |

IV. Source-Specific Applicable Requirements

Table IV – C
Source-Specific Applicable Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 108611138

| Applicable Requirement | Regulation Title or Description of Requirement | Federally Enforceable (Y/N) | Future Effective Date |
|--|---|-----------------------------|-----------------------|
| <u>State of California, Air Resources Board, Executive Order G-70-125-AA</u> | <u>Modification of the Certification of the Husky Model V Phase II Vapor Balance System (3/16/93)</u> | | |
| <u>Paragraph 8</u> | <u>Applicability of Order</u> | <u>N</u> | |
| <u>Paragraph 9</u> | <u>Requirements for Components</u> | <u>N</u> | |
| <u>Paragraph 10</u> | <u>Requirements for Installation</u> | <u>N</u> | |
| <u>Paragraph 11</u> | <u>Limit on Dispensing Rate</u> | <u>N</u> | |
| <u>Paragraph 12</u> | <u>Requirement for Use with all Vehicles</u> | <u>N</u> | |
| <u>Paragraph 13</u> | <u>Requirement to Comply with Department of Food and Agriculture, State Fire Marshal's Office, and OSHA</u> | <u>N</u> | |
| <u>Paragraph 14</u> | <u>Performance Criterion</u> | <u>N</u> | |
| <u>Paragraph 15</u> | <u>Prohibition on Alteration of Equipment, Parts, Design, or Operation</u> | <u>N</u> | |
| <u>Paragraph 16</u> | <u>Requirement to Operate in Accordance with Manufacturer's Recommendations</u> | <u>N</u> | |
| <u>Paragraph 17</u> | <u>Requirement for Performance Check</u> | <u>N</u> | |

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

V. SCHEDULE OF COMPLIANCE

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

1. Compliance with BAAQMD Regulation 2-2-301: Best Available Control Technology (BACT) for NOx emissions and with CCR, Title 17, Section 93115.7(a)(1): Airborne Toxic Control Measure for Stationary Compression Ignition Engines, Table 4 Emission Standards for New Stationary Prime Diesel-Fueled CI Engines > 50 bhp for PM emissions

New Prime Diesel Engine-Generator, S-33

Compliance Milestones

The source listed above was installed and is operating without a permit. The owner/operator shall complete installation and initiate operation of a selective catalytic reduction system to meet BACT requirements for NOx emissions from S-33. The owner/operator shall complete installation and initiate operation of a diesel particulate filter to meet the CARB ATCM particulate emission limit for S-33. These abatement devices shall be designed to meet all of the requirements specified in the Authority to Construct and in BAAQMD Condition # 25368, including the NOx emission limit specified in Condition # 25368 Part 5 and the particulate emission limit specified in Condition # 25368 Part 4. The owner/operator shall comply with the following milestones to achieve and demonstrate compliance with the above requirements.

- The owner/operator shall order the selective catalytic reduction system and diesel particulate filter for S-33 within 15 days of the date of issuance of the Authority to Construct for these devices.
- The owner/operator shall complete installation of the selective catalytic reduction system within 15 days of delivery of this device.
- The owner/operator shall complete installation of the diesel particulate filter within 15 days of delivery of this device.
- The owner/operator shall initiate operation of the selective catalytic reduction system and the diesel particulate filter no later than 120 days after the date of issuance of the Authority to Construct for these devices and shall ensure that these devices are operated in accordance with manufacturer recommendations.
- The owner/operator shall ensure that all required source testing is completed within 60 days of startup of the abatement equipment.
- The owner/operator shall ensure that all source test results are submitted to the District within 30 days of completion of the source test.

V. Schedule of Compliance

2. Compliance with BAAQMD Regulation 9, Rule 8: Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines and Compliance with CCR, Title 17, Section 93115: Airborne Toxic Control Measure for Stationary Compression Ignition Engines

S-13, Diesel IC Engine

Compliance Milestones:

S-13 is not complying with the emission limits in District Regulation 9, Rule 8, Section 304.2 or the state ATCM (Section 93115.7 (b)).

- By no later than November 30, 2012, the owner/operator shall submit an application for an Authority to Construct for the retrofit necessary to achieve compliance with Regulation 9-8-304.2 and with the state ATCM, including the diesel PM emission limit in Section 93115.7(b)(1) and the report and control strategy specifications pursuant to Sections 93115.10(a)(3) and 93115.10(a) (4).
- The owner/operator shall order the required abatement equipment within 15 days of the date of issuance of the Authority to Construct.
- The owner/operator shall install all necessary abatement equipment within 15 days of delivery of the abatement equipment.
- The owner/operator shall initiate operation of all necessary abatement equipment no later than 120 days after the date of issuance of the Authority to Construct and shall ensure that this abatement equipment is operated in accordance with manufacturer recommendations.
- The owner/operator shall ensure that all required source testing is completed within 60 days of startup of the abatement equipment.
- The owner/operator shall ensure that all source test results are submitted to the District within 30 days of completion of the source test.

3. Compliance with BAAQMD Regulation 2-1-301: Authority to Construct and BAAQMD Regulation 2-1-302: Permit to Operate

Portable Diesel Tipper Engines

Compliance Milestones:

The sources listed above were brought onsite and are operating without permits. The owner/operator has submitted Application # 21165 to request an Authority to Construct and Permit to Operate for this equipment.

- By no later than November 30, 2012, the owner/operator shall submit to the District all information and fee payments necessary to complete Permit Application # 21165.

V. Schedule of Compliance

4. Compliance with BAAQMD Regulation 2-1-301: Authority to Construct and BAAQMD Regulation 2-1-302: Permit to Operate

Composting Operation

Crushing/grinding operations

Stockpiles

Quarry

Storage Tanks for Leachate and Condensate

Compliance Milestones:

The sources listed above are operating without permits. The owner/operator has submitted Application # 16322 to request an Authority to Construct and Permit to Operate for this equipment.

- By no later than December 31, 2012, the owner/operator shall submit to the District all information and fee payments necessary to complete Permit Application # 16322.

5. Compliance with BAAQMD Regulation 2-1-301: Authority to Construct

Potrero Hills Landfill (S-1, S-202, and S-203)

Compliance Milestones:

The owner/operator has submitted Application # 24634 to request an Authority to Construct and Change of Conditions for modifications and alterations that have occurred at the Potrero Hills Landfill.

- By no later than January 31, 2013, the owner/operator shall submit to the District all information and fee payments necessary to complete Permit Application # 24634.

6. Compliance with BAAQMD Regulation 2-6-409.10: Schedule of Compliance

Applies to All Sources Listed in this Section

Compliance Milestones:

- The owner/operator shall maintain records of each date that a compliance milestone was met, including date that each abatement device was ordered, date that each abatement device was delivered, date that installation of each abatement device was completed, date of initial operation of each abatement device, source test dates, source test results submittal dates, and information and payment submittal dates for each application.
- The owner/operator shall submit progress reports to the District every six months that include the above records and an explanation of why any dates were not or will not be met and any preventative or correction measures that were adopted to minimize emissions, to limit non-compliant operation, or to ensure that future compliance milestones will be met. Submittal due dates for these reports shall be synchronized with the semi-annual monitoring reports required in Section I.F.

VI. PERMIT CONDITIONS

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

Condition #1948

For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
S-202 Potrero Hills MSW Landfill – Waste and Cover Material Dumping;
S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

1. The owner/operator Permit Holder shall comply with the following waste acceptance and disposal limits and shall obtain the appropriate New Source Review permit, if one of the following limits is exceeded:
 - a. Except for temporary emergency situations approved by the Local Enforcement Agency, Total waste accepted and placed at the landfill shall not exceed 4430 tons in any day. (Basis: Regulation 2-1-301)
 - b. The total cumulative amount of all decomposable materials waste placed in the landfill shall not exceed 13.1 million tons. Exceedance of the cumulative tonnage limit is not a violation of the permit and does not trigger the requirement to obtain a New Source review permit, if the operator can, within 30 days of the date of discovery of the exceedance, provide documentation to the District demonstrating that a higher limit will not result in an increase of any daily or annual emission level. (Basis: Regulation 2-1-301 and 2-1-234)
 - c. The maximum design capacity of the landfill (total volume of all wastes and cover materials placed in the landfill, excluding final cover) shall not exceed 21.8 million cubic yards. (Basis: Regulation 2-1-301)

2. This facility is not subject to Regulation 8, Rule 40 because the landfill does not accept contaminated soil (soil containing more than 50 ppmw of volatile organic compounds, VOCs). The following types of materials may be accepted:
 - a. Materials for which the owner/operator Permit Holder has appropriate documentation demonstrating that either the organic content of the soil or the organic concentration above the soil is below the “contaminated” level (as defined in Regulation 8, Rule 40, Sections 205, 207, and 211).
 - b. Materials for which the owner/operator Permit Holder lacks documentation to prove that the soil is not contaminated, but source of the soil is known and there is no reason to suspect that the soil might contain organic compounds.

VI. Permit Conditions

Condition #1948

For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
S-202 Potrero Hills MSW Landfill – Waste and Cover Material Dumping;
S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

- c. Materials which the owner/operator Permit Holder plans to test in order to determine the VOC contamination level in the soil, provided that the material is sampled within 24 hours of receipt by this site and is handled as if the soil were contaminated until the owner/operator Permit Holder receives the test results. The owner/operator Permit Holder shall collect soil samples in accordance with Regulation 8-40-601. The organic content of the collected soil samples shall be determined in accordance with Regulation 8-40-602.
- i. If the test results indicate that the soil is contaminated or if the soil was not sampled within 24 hours of receipt by the facility, the Permit Holder owner/operator must continue to handle the soil in accordance with Regulation 8, Rule 40, until the soil has been removed from this site or has completed treatment. Storing soil in a temporary stockpile or pit is not considered treatment. Co-mingling, blending, or mixing of soil lots is not considered treatment.
- ii. If the test results indicate that the soil, as received at this site, has an organic content of 50 ppmw or less, then the soil need not be handled in accordance with Regulation 8, Rule 40 any longer.

(basis: Regulation 8-40-301)

3. The owner/operator Permit Holder shall limit the quantity of low VOC soil (soil that contains 50 ppmw or less of VOCs) disposed of per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. In order to demonstrate compliance with this condition, the owner/operator Permit Holder shall maintain the following records in a District approved log.
- a. Record on a daily basis the amount of low VOC soil disposed of in the landfill or used as cover material in the landfill. This total amount (in units of pounds per day) is Q in the equation in subpart c. below.
- b. Record on a daily basis the VOC content of all low VOC soils disposed of or used as cover material. This VOC Content (C in the equation below) should be expressed as parts per million by weight as total carbon.

VI. Permit Conditions

Condition #1948

For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
S-202 Potrero Hills MSW Landfill – Waste and Cover Material Dumping;
S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

- c. Calculate and record on a daily basis the VOC Emission Rate (E) using the following equation:
$$E = Q * C / 10^6$$

(basis: Regulation 8-2-301)
4. Water and/or dust suppressants shall be applied to all unpaved roadways and active soil removal and fill areas associated with this landfill as necessary to prevent visible particulate emissions. Paved roadways at the facility shall be kept sufficiently clear of dirt and debris as necessary to prevent visible particulate emissions from vehicle traffic or wind. (basis: Regulations 2-1-403, 6-1-301, and 6-1-305)
5. All collected landfill gas shall be vented to properly operating Landfill Gas Flare (A-2). Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for 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 ensure that the landfill gas collection system, described in subpart 6a below, is operated continuously as defined in Regulation 8-34-219. Wells, collectors, and adjustment valves shall not be shut off, disconnected, or removed from operation without written authorization from the APCO, unless the owner/operator complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 117, and 118. The Permit Holderowner/operator shall apply for and receive an Authority to ConstructChange of Conditions before modifying altering the landfill gas collection system, other than as described in subpart 6b below. Increasing or decreasing the number of wells or collectors, changing the length of collectors, or changing the locations of wells or collectors are all considered to be modificationsalterations that require a Change of Conditionsare subject to the Authority to Construct requirement. Adding or modifying risers, laterals, or header pipes are not subject to this Authority to Construct requirement.

VI. Permit Conditions

Condition #1948

For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
S-202 Potrero Hills MSW Landfill – Waste and Cover Material Dumping;
S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

- a. The owner/operator Permit Holder has been issued a Permit to Operate for the landfill gas collection system components listed below (well count as of 2-18-11) plus any components added and minus any components decommissioned pursuant to subpart 6b. ~~The authorized number of landfill gas collection system components is the baseline count listed below plus any components added and minus any components decommissioned pursuant to Part 2b~~ as evidenced by start-up/shut-down notification letters submitted to the District.

Vertical Wells: 1854

Horizontal Collectors: 2624

- b. The owner/operator is authorized to make the landfill gas collection system component alterations ~~The Permit Holder has been issued an Authority to Construct (Application #11204) for the landfill gas collection system modifications~~ described below.

Installation of up to 12 new horizontal trench collectors

Installation of up to ~~36~~33 new vertical wells

Installation of up to 14 horizontal trench collectors

Decommissioning of up to ~~9~~12 horizontal trench collectors

Decommissioning of up to 25 vertical wells

Wells installed, relocated, replaced, or shutdown pursuant to subpart 6b shall be added to or removed from subpart 6a in accordance with the procedures identified in Regulations 2-6-414 or 2-6-415. The owner/operator shall maintain records of the decommissioning date for each component that is shutdown and the initial operation date for each new or relocated component.

(basis: Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, 8-34-305)

7. The landfill gas collection system in Part 6 shall be operated continuously. Wells shall not be shut off, disconnected or removed from operation without written authorization from the APCO, unless the owner/operator Permit Holder complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)

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For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
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S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

8. The heat input to the A-2 Landfill Gas Flare shall not exceed 1,080 million BTU per day and shall not exceed 394,200 million BTU per year. In order to demonstrate compliance with this part, the owner/operator Permit Holder shall calculate and record, on a monthly basis, the maximum daily and total monthly heat input to the flare based on: (a) the landfill gas flow rate recorded pursuant to part 13.h., (b) the average methane concentration in the landfill gas measured in most recent source test, and (c) a high heating value for methane of 1013 BTU per cubic foot at 60 degrees F. (basis: Regulation 2-1-301)
9. The combustion zone temperature of the A-2 Landfill Gas Flare shall be maintained at a minimum of 1,660 degrees F, averaged over any 3-hour period, during all times that landfill gas is being combusted in the flare. If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO may revise the minimum combustion zone temperature limit in accordance with the procedures identified in Regulation 2-6-414 or 2-6-415, based on the following criteria: (1) the minimum combustion zone temperature measured during the most recent complying source test minus 50 degrees F, (2) the minimum combustion zone temperature shall not be less than 1,400 degrees F. (Basis: Regulation 8-34-301.3)
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 1300 ppmv (dry). In order to demonstrate compliance with this part, the owner/operator Permit Holder shall measure the hydrogen sulfide content in collected landfill gas on a quarterly basis using a draeger tube. Compliance with the total sulfur limit is assumed if the hydrogen sulfide content is found to be equal to or less than 1000 ppmv. The landfill gas sample shall be taken from the main landfill gas header. The owner/operator Permit Holder shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The owner/operator Permit Holder shall conduct the first draeger tube test no later than 3 months after the issue date of the MFR Permit and quarterly thereafter. (basis: Regulation 9-1-302)

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For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare; S-202 Potrero Hills MSW Landfill – Waste and Cover Material Dumping; S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

11. In order to demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, the owner/operator Permit Holder shall ensure that a District approved source test is conducted annually on the Landfill Gas Flare (A-2). The annual source test shall determine the following:
 - a. landfill gas flow rate to the flare (dry basis);
 - b. concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), ~~total hydrocarbons (THC)~~, methane (CH₄), and total non-methane organic compounds (NMOC) in the landfill gas;
 - c. stack gas flow rate from the flare (dry basis);
 - d. concentrations (dry basis) of ~~THC~~, CH₄, NMOC, SO₂, and O₂ in the flare stack gas;
 - e. the NMOC destruction efficiency achieved by the flare; and
 - f. the average combustion temperature in the flare during the test period.Annual source tests shall be conducted no earlier than 9 months and no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and to the Source Test Section within 45-60 days of the test date. (basis: Regulations 2-1-301, 8-34-301.3, ~~and 8-34-412~~, and 9-1-302)

12. The owner/operator Permit Holder shall conduct a characterization of the landfill gas concurrent with the annual source test required by part 11 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in part 11.b, the landfill gas shall be analyzed for the following compounds:

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For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
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| | |
|-------------------------|---------------------------|
| Acrylonitrile | Ethylene dibromide |
| Benzene | Fluorotrichloromethane |
| Carbon disulfide | Hexane |
| Carbon tetrachloride | Hydrogen sulfide |
| Chlorobenzene | Isopropyl alcohol |
| Chlorodifluoromethane | Methylethylketone |
| Chloroethane | Methylene chloride |
| Chloroform | Perchloroethylene |
| 1,1 Dichloroethane | Toluene |
| 1,1 Dichloroethene | 1,1,1 Trichloroethane |
| 1,2 Dichloroethane | 1,1,2,2 Tetrachloroethane |
| 1,4 Dichlorobenzene | Trichloroethylene |
| Dichlorodifluoromethane | Vinyl chloride |
| Dichlorofluoromethane | Xylenes |
| Ethylbenzene | |

All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 45-60 days of the test date. After conducting three annual landfill gas characterization tests, the owner/operator may request to remove specific compounds from the list of compounds to be tested for if the compounds have not been detected, have no significant impact on the cancer risk determination for the site, and have no significant impact on the hazard index determination for the site. (basis: ~~Toxic Risk Management Policy and~~ Regulations 2-5-302 and 8-34-412)

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For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare; S-202 Potrero Hills MSW Landfill – Waste and Cover Material Dumping; S-203 Potrero Hills MSW Landfill – Excavating, Bulldozing, and Compacting Activities

13. In order to demonstrate compliance with the above conditions, the owner/operator Permit Holder shall maintain the following records in a District approved logbook.
- a. Record the total amount of municipal solid waste received at S-1 on a daily basis. A S summarize of the daily waste acceptance records for each calendar month.
 - b. For each area or cell that is not controlled by a landfill gas collection system, maintain a record of the date that waste was initially placed in the area or cell. Record of The cumulative amount of waste placed in each uncontrolled area or cell, recorded on a monthly basis.
 - c. If the Permit Holder owner/operator plans to exclude an uncontrolled area or cell from the collection system requirement, the owner/operator Permit Holder shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
 - d. Maintain a Daily records of low VOC soil acceptance rate and emissions, pursuant to part 3.
 - e. Record of The dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. Record of The dates, locations, and type of any dust suppressant applications. Record of The dates and description of all paved roadway cleaning activities. All records shall be summarized on a monthly basis.
 - f. Record of The initial operation date for each new landfill gas well and collector.
 - g. Maintain a An accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to ~~p~~Part 76. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least once a year to indicate changes in refuse boundaries and to include any newly installed wells and collectors.

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For: S-1 Potrero Hills MSW Solid Waste Landfill – Waste Decomposition Process; Equipped With Gas Collection System; and abated by A-2 Landfill Gas Flare;
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- h. ~~Record~~ The operating times and the landfill gas flow rate to the A-2 Landfill Gas Flare, recorded on a daily basis. ~~Summarize these records on a monthly basis. Calculate and record~~ A monthly summary of the heat input to A-2, pursuant to part 8, shall be calculated and recorded.
- i. ~~Maintain~~ eContinuous records of the combustion zone temperature for the A-2 Landfill Gas Flare during all hours of operation.
- j. ~~Maintain~~ rRecords of all test dates and test results performed to maintain compliance with parts 10, 11, and 12 above or any applicable rule or regulation.
- k. ~~Maintain~~ rRecords of landfill gas condensate injection throughput and the duration of the injection on a daily basis.

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, 2-6-501, 6-1-301, 6-1-305, 8-2-301, 8-34-301, 8-34-304, ~~and~~ 8-34-501, and 9-1-302)

- 14. The Potrero Hills Landfill is subject to the following waste acceptance and waste handling requirements: (basis: Regulation 2-1-403)
 - a. No Class I wastes may be disposed on onsite without prior BAAQMD approval except for ash from a waste-to-energy plant burning municipal waste, owned and operated by Solano Garbage Company under a BAAQMD permit. All other necessary state, federal, and local permits must be obtained before such disposal is allowed.
 - b. At the end of each operating day, the working face and all other exposed refuse shall be covered with a 6" minimum layer of soil such that no refuse is left exposed.

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- c. Alternative daily cover, including digested dewatered, municipal sewage sludge (biosolids) and/or wood chips, may be used in accordance with the facility's solid waste permit provided that dust and/or odor from the alternative cover are not present on adjacent property in such quantities as to cause a public nuisance per Regulation 1-301. If the District receives and verifies 4 or more odor complaints originating from use of alternative daily cover in any consecutive 3-month period a public nuisance situation occurs, Potrero Hills Landfill shall cease using alternative cover materials until the problem has been identified and corrected to the satisfaction of the APCO.

15. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments. The reporting period for the first increment of the Regulation 8-34-411 annual report that is submitted subsequent to the issuance of the MFR Permit for this site shall be from December 1, 2003 through January 31, 2004. This first increment report shall be submitted by February 29, 2004. The reporting periods and report submittal due dates for all subsequent increments of the Regulation 8-34-411 report shall be synchronized with the reporting periods and report submittal due dates for the semi-annual MFR Permit monitoring reports that are required by Section I.F of the MFR Permit for this site. (basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

- *16. Within 3 months of issuance of the Title V permit renewal, the owner/operator shall submit a proposal for monitoring ground level hydrogen sulfide concentrations at or near the fence line or property boundary for this facility and a proposal that identifies all feasible hydrogen sulfide emission reduction measures that could be implemented at this site if necessary. The owner/operator shall initiate hydrogen sulfide monitoring within 3 months of receiving District approval for the monitoring protocol.

- a. If a measured hydrogen sulfide concentration at the fence line or property boundary exceeds a concentration limit in Regulation 9-2-301 (0.03 ppmv averaged over 60 minutes or 0.06 ppmv averaged over 3 minutes), the owner/operator shall notify the District of the excess and shall implement any hydrogen sulfide emission reduction measures required by the District

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at that time.

- b. If the District receives an odor complaint and if a District inspector verifies an odor originating from the landfill at an 8 to 1 dilution ratio off property, the owner/operator shall implement any hydrogen sulfide emission reduction measures required by the District at that time.

Ground level hydrogen sulfide monitoring may be discontinued five years after this facility ceases waste disposal activities or when the hydrogen sulfide measurements show compliance with the Regulation 9-2-301 limit for at least 8 consecutive quarters and no verified odor complaints have been documents, whichever occurs sooner. (Basis: Regulation 9-2-301)

Condition # 14098

For: S-14, Non-Retail Gasoline Dispensing Facility G# ~~10861~~11138

Pursuant to BAAQMD Toxic Section Policy, this facility's annual gasoline throughput shall not exceed 940,000 gallons in any consecutive 12-month period. (basis: Toxic Risk Management Policy)

Condition #16516

For: ~~S 14, Non-Retail Gasoline Dispensing Facility G# 10861~~

~~The Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period after the date of successful completion of the startup Static Pressure Performance Test. Test results shall be submitted to BAAQMD within 20 days of the test date. (basis: Regulations 8-7-301.6 and 8-7-302.5)~~

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Condition # 25107

For: S-14, Non-Retail Gasoline Dispensing Facility G# 11138

For each aboveground gasoline storage tank, the Static Pressure Performance Test (Leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period after the date of successful completion of the startup Static Pressure Performance Test.

The applicant shall notify Source Test by email at gdfnotice@baaqmd.gov or by FAX at (510) 758-3087, at least 48 hours prior to any testing required for permitting. Test results for all performance tests shall be submitted within thirty (30) days of testing. Start-up test results submitted to the District must include the application number and the GDF number. (For annual test results submitted to the District, enter "Annual" in lieu of the application number.) Test results may be submitted by email (gdfresults@baaqmd.gov), FAX (510) 758-3087) or mail (BAAQMD Source Test Section, Attention Hiroshi Doi, 939 Ellis Street, San Francisco CA 94109). (Basis: Regulation 8-7-407)

Condition #18996

For: ~~S-12~~, S-13, Diesel IC Engines for Electrical Power Generation

1. Only low sulfur fuel (<0.05% sulfur by weight) shall be combusted at ~~S-12 and~~ S-13. The maximum sulfur content of the fuel shall be demonstrated by vendor certification. (basis: Regulation 9-1-304)
2. The exhaust of the Diesel IC Engines ~~S-12 and~~ S-13 shall be observed for visible smoke during all periods of operation. If persistent smoke is detected, the operator of the source shall take the necessary corrective action to stop the emissions. (basis: Regulation ~~s~~ 6-1-303, ~~6-1-401, and Regulation~~ 2-1-403)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

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

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

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|-------------------|--------|-----------------------|--|--|------------------------------|-----------------|
| Collection System Installation Dates | BAAQMD 8-34-304.1 | Y | | For Inactive/Closed Areas: collection system components must be installed and operating by 2 years + 60 days after initial waste placement | BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 1948, Parts 13b-c and 13f-g | P/E | Records |

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Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--------------------------------------|---------------------------|--------|-----------------------|---|--|------------------------------|--|
| Collection System Installation Dates | BAAQMD 8-34-304.2 | 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 # 1948, Parts 13b-c and 13f-g | P/E | Records |
| Collection System Installation Dates | BAAQMD 8-34-304.3 | Y | | For Any Uncontrolled Areas or Cells: collection system components must be installed and operating within 60 days after the uncontrolled area or cell accumulates 1,000,000 tons of decomposable waste | BAAQMD 8-34-501.7 and 501.8 and BAAQMD Condition # 1948, Parts 13a-c and 13f-g | P/E | Records |
| Gas Flow | BAAQMD 8-34-301 and 301.1 | Y | | Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system | BAAQMD 8-34-501.10 and 508, <u>and Condition 1948, Part 13h</u> | C | Gas Flow Meter and Recorder (every 15 minutes) |

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S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| 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 # 1948, Parts 5, and 6, and 7 | Y | | Landfill gas collection system shall operate continuously and all collected gases shall be vented to a properly operating control system | BAAQMD Condition # 1948, Parts 13f-h | P/D | Records of Landfill Gas Flow Rates, Collection and Control Systems Downtime, and Collection System Components |
| Collection and Control Systems Shutdown Time | BAAQMD 8-34-113.2 | Y | | < Less than 240 hours per year and < less than 5 consecutive days | BAAQMD 8-34-501.1 | P/D | Operating Records |
| Periods of Inoperation for Parametric Monitors | BAAQMD 1-523.2 | Y | | ≤ 15 consecutive days per incident and ≤ 30 calendar days per 12 month period | BAAQMD 1-523.4 | P/D | Operating Records for All Parametric Monitors |
| Continuous Monitors | 40 CFR 60.13(e) | Y | | Requires Continuous Operation except for breakdowns, repairs, calibration, and required span adjustments | 40 CFR 60.7(b) | P/D | Operating Records for All Continuous Monitors |
| Wellhead Pressure | BAAQMD 8-34-305.1 | Y | | < 0 psig | BAAQMD 8-34-414, 501.9 and 505.1 | P/M | Monthly Inspection and Records |

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Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|----------------------------|----------|-----------------------|--|---|------------------------------|--------------------------------|
| Temperature of Gas at Wellhead | BAAQMD 8-34-305.2 | Y | | < 55 °C | BAAQMD 8-34-414, 501.9 and 505.2 | P/M | Monthly Inspection and Records |
| Gas Concentrations at Wellhead | BAAQMD 8-34-305.3 or 305.4 | Y | | N ₂ < 20% <u>by volume</u> OR O ₂ < 5% <u>by volume</u> | BAAQMD 8-34-414, 501.9 and 505.3 or 505.4 | P/M | Monthly Inspection and Records |
| Well Shutdown Limits <u>for Well Raising</u> | BAAQMD 8-34-116.2 | Y | | No more than 5 wells at a time or 10% of total collection system, whichever is less | BAAQMD 8-34-116.5 and 501.1 | P/D | Records |
| Well Shutdown Limits <u>for Well Raising</u> | BAAQMD 8-34-116.3 | Y | | < 24 <u>consecutive</u> hours per well | BAAQMD 8-34-116.5 and 501.1 | P/D | Records |
| Well Shutdown Limits <u>for Repair, Construction, Fire</u> | 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 <u>for Repair, Construction, Fire</u> | BAAQMD 8-34-117.5 | Y | | < 24 <u>consecutive</u> hours per well | BAAQMD 8-34-117.6 and 501.1 | P/D | Records |
| <u>Landfill Construction Activity Limits</u> | <u>BAAQMD 8-34-118.5</u> | <u>Y</u> | | <u>Excavated refuse covered immediately and disposed of < 24 hours</u> | <u>BAAQMD 8-34-118.9 and 501.1</u> | <u>P/D</u> | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|--------------------------|----------|-----------------------|---|--|------------------------------|---|
| <u>Landfill Construction Activity Limits</u> | <u>BAAQMD 8-34-118.6</u> | <u>Y</u> | | <u>Drilled wells and excavated trenches covered < 8 hours</u> | <u>BAAQMD 8-34-118.9 and 501.1</u> | <u>P/D</u> | <u>Records</u> |
| TOC (Total Organic Compounds Plus Methane) | BAAQMD 8-34-301.2 | Y | | <u>Component Leak Limit:</u> ≤ 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 | | <u>Surface Leak Limit:</u> ≤ 500 ppmv as methane at 2 inches above surface | BAAQMD 8-34-415, 416, 501.6, 506 and 510 | P/M, Q, and E | Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspection Times for Leaking Areas, and Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| 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 Compounds (NMOC) | BAAQMD 8-34-301.3 | Y | | ≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% O ₂ , expressed as methane (applies to A-2 Flare only) | BAAQMD 8-34-412 and 8-34-501.4 and BAAQMD Condition # 1948, Part 11 | P/A | Initial and Annual Source Tests and Records |
| Temperature of Combustion Zone (CT) | BAAQMD Condition # 1948, Part 9 | Y | | CT ≥ 1400 °F, averaged over any 3-hour period (applies to A-2 Flare only) | BAAQMD 8-34-501.3 and 507, and BAAQMD Condition # 1948, Part 13i | C | Temperature Sensor and Recorder (continuous) |
| Temperature of Combustion Zone (CT) | BAAQMD Condition # 1948, Part 9 | Y | | CT ≥ 1660 °F, averaged over any 3-hour period (applies to A-2 Flare only) | BAAQMD 8-34-501.3 and 507, and BAAQMD Condition # 1948, Part 13i | C | Temperature Sensor and Recorder (continuous) |
| Total Carbon | BAAQMD 8-2-301 | Y | | ≤ 15 pounds/day or ≤ 300 ppm, dry basis (applies only to aeration of or use as cover soil of soil containing ≤ 50 ppmw of volatile organic compounds) | BAAQMD Condition # 1948, Part 3 | P/D | Records |

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Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS SANITARY-MSW LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------------|---------------------------------|----------------|-----------------------|--|--|------------------------------|--|
| Volatile Organic Compounds | BAAQMD Condition # 1948, Part 2 | Y | | Facility shall not accept soil containing more than 50 ppmw of VOC | BAAQMD Condition # 1948, Parts 2 and 13d | P/E | Records |
| Opacity | BAAQMD 6-1-301 | Y N | | Ringelmann No. 1 for \leq 3 minutes/hr (applies to <u>S-1 Landfill operations</u> <u>S-202 and S-203</u>) | BAAQMD Condition # 1948, Part 13e | P/E, M | Records of all site watering and road cleaning events |
| Opacity | BAAQMD 6-1-301 | Y N | | Ringelmann No. 1 for < 3 minutes/hr (applies to A-2 Flare) | None | N | NA |
| FP | BAAQMD 6-1-310 | Y N | | \leq 0.15 grains/dscf (applies to A-2 Flare only) | None | N | NA |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for < 3 minutes/hr (applies to S-202 and S-203)</u> | <u>BAAQMD Condition # 1948, Part 13e</u> | <u>P/E, M</u> | <u>Records of all site watering and road cleaning events</u> |
| <u>Opacity</u> | <u>SIP 6-301</u> | <u>Y</u> | | <u>Ringelmann No. 1 for < 3 minutes/hr (applies to A-2 Flare)</u> | <u>None</u> | <u>N</u> | <u>N/A</u> |
| <u>FP</u> | <u>SIP 6-310</u> | <u>Y</u> | | <u>< 0.15 grains/dscf (applies to A-2 Flare only)</u> | <u>None</u> | <u>N</u> | <u>N/A</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| 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 9-1-301 | 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 (applies to A-2 Flare only) | None | N | NA |
| SO ₂ | BAAQMD Regulation 9-1-302 | Y | | ≤ 300 ppm (dry basis) (applies to A-2 Flare only) | BAAQMD Condition # 1948, Parts 10, <u>11d</u> , and 13j | P/Q | Sulfur analysis of landfill gas <u>and source test</u> |
| Total Sulfur Content in Landfill Gas | BAAQMD Condition # 1948, Part 10 | Y | | ≤ 1300 ppmv <u>of TRS, expressed as H₂S, or</u> ≤ 1000 ppmv of hydrogen sulfide <u>(H₂S),</u> when measured using a Draeger Tube | BAAQMD Condition # 1948, Parts 10 and 13j | P/Q | Sulfur analysis of landfill gas |
| H ₂ S | BAAQMD 9-2-301 | N | | *Property Line Ground Level Limits: ≤ 0.06 ppm, averaged over 3 minutes and ≤ 0.03 ppm, averaged over 60 minutes | <u>BAAQMD Condition # 1948,</u> Part 16 <u>None</u> | <u>P/E/N</u> | <u>NA Monitoring to be proposed by operator</u> |
| Amount of Waste Accepted | BAAQMD Condition # 1948, Part 1 <u>a</u> | Y | | ≤ 4430 tons /per day and ≤ 13,100,000 tons (cumulative amount of all wastes) and ≤ 21,800,000 yd³ (cumulative amount of all wastes and cover materials) | BAAQMD Condition # 1948, Part 13a | P/D | Records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – A
Applicable Limits and Compliance Monitoring Requirements
S-1 POTRERO HILLS ~~SANITARY-MSW~~ LANDFILL – WASTE DECOMPOSITION PROCESS;
EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;
ABATED BY A-2 LANDFILL GAS FLARE;
S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING; AND
S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND COMPACTING
ACTIVITIES

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|--|---|----------|-----------------------|--|--|------------------------------|---|
| <u>Amount of Waste Accepted</u> | <u>BAAQMD Condition # 1948, Part 1b</u> | <u>Y</u> | | <u>< 13,100,000 tons (cumulative amount of all decomposable materials placed in landfill)</u> | <u>BAAQMD Condition # 1948, Part 13a</u> | <u>P/D</u> | <u>Records</u> |
| <u>Amount of Waste Accepted</u> | <u>BAAQMD Condition # 1948, Part 1c</u> | <u>Y</u> | | <u>< 21,800,000 yd³ (cumulative amount of all wastes and cover materials placed in landfill)</u> | <u>BAAQMD Condition # 1948, Part 13a</u> | <u>P/D</u> | <u>Records</u> |
| Heat Input | BAAQMD Condition # 1948, Part 8 | Y | | ≤ 1,080 MM BTU per day and ≤ 394,200 MM BTU per year | BAAQMD Condition # 1948, Part 8 | P/D | Records |
| Startup Shutdown or Malfunction Procedures | 40 CFR 63.6(e) | Y | <u>4/16/04</u> | Minimize Emissions by Implementing SSM Plan | 40 CFR 63.1980(a-b) | P/E | Records (all occurrences, duration of each, corrective actions) |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-12, S-13 DIESEL IC ENGINES FOR POWER GENERATION

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|-------------------------------------|--------------|-----------------------|---|---|------------------------------|--|
| Opacity | BAAQMD Regulation 6-1-303 | N | | Ringelmann 2.0 for ≤ 3 minutes in any hour | BAAQMD Condition # 18996, Part 2 | P/E | Observation for Visible Smoke |
| FP | BAAQMD Regulation 6-1-310 | N | | ≤ 0.15 gr + per dscf | None | N | NA |
| <u>Opacity</u> | <u>SIP Regulation 6-303</u> | <u>Y</u> | | <u>Ringelmann 2.0 for ≤ 3 minutes in any hour</u> | <u>BAAQMD Condition # 18996, Part 2</u> | <u>P/E</u> | <u>Observation for Visible Smoke</u> |
| <u>FP</u> | <u>SIP Regulation 6-310</u> | <u>Y</u> | | <u>≤ 0.15 gr+ per dscf</u> | <u>None</u> | <u>N</u> | <u>NA</u> |
| <u>Diesel PM</u> | <u>CCR Title 17, §93115.7(b)(1)</u> | <u>N</u> | | <u>For non-certified engines: 85% reduction from baseline levels or 0.01 g/bhp-hr</u> | <u>CCR Title 17, §93115.13(a)</u> | <u>P/E</u> | <u>Source test data</u> |
| <u>NO_x</u> | <u>BAAQMD Regulation 9-8-304.2</u> | <u>N</u> | | <u>≤ 110 ppmv, corrected to 15% oxygen, dry basis</u> | <u>BAAQMD Regulation 9-8-501, 9-8-503</u> | <u>P – Initial and P/Q</u> | <u>Initial Source Test and Portable Analyzer</u> |
| <u>CO</u> | <u>BAAQMD Regulation 9-8-304.2</u> | <u>N</u> | | <u>≤ 310 ppmv, corrected to 15% oxygen, dry basis</u> | <u>BAAQMD Regulation 9-8-501, 9-8-503</u> | <u>P – Initial and P/Q</u> | <u>Initial Source Test and Portable Analyzer</u> |
| SO ₂ | BAAQMD Regulation 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 |
| <u>SO₂ Fuel Sulfur Content</u> | <u>BAAQMD Regulation 9-1-304</u> | <u>Y</u> | | <u>Fuel Sulfur Limit $\leq 0.5\%$ sulfur by weight</u> | <u>BAAQMD Condition # 18996, Part 1</u> | <u>P/E</u> | <u>Vendor Certification</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
~~S-12~~, S-13 DIESEL IC ENGINES FOR POWER GENERATION

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|--|----------|-----------------------|---|--|------------------------------|-------------------------------------|
| <u>SO₂ Fuel Sulfur Content</u> | BAAQMD Condition # 18996, Part 1 | Y | | <u>Fuel Sulfur Limit < 0.05% sulfur by weight</u> | BAAQMD Condition # 18996, Part 1 | P/E | Vendor Certification |
| <u>Fuel Sulfur Content</u> | <u>CCR Title 17, §93115.5(a)</u> | N | | <u>CARB diesel 0.0015% sulfur by weight and aromatic HC < 10% by volume; alternative diesel fuel; or fuel meeting the Verification Procedure</u> | <u>BAAQMD Condition # 18996, Part 1</u> | <u>P/E</u> | <u>Vendor Certification</u> |
| <u>Maintenance Criteria</u> | <u>40 CFR Part 63, Subpart ZZZZ, Sections 63.6603(a), 63.6640(a), Table 2d(1)(a)</u> | <u>Y</u> | <u>5/3/13</u> | <u>Change Oil and Filter every 1,000 hours of operation or annually, whichever comes first</u> | <u>40 CFR Part 63, Subpart ZZZZ, Sections 63.6625, 63.6640(a), and Table 6(9)(a)</u> | <u>P/E</u> | <u>Maintenance plan and records</u> |
| <u>Maintenance Criteria</u> | <u>40 CFR Part 63, Subpart ZZZZ, Sections 63.6603(a), 63.6640(a), Table 2d(1)(b)</u> | <u>Y</u> | <u>5/3/13</u> | <u>Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary</u> | <u>40 CFR Part 63, Subpart ZZZZ, Sections 63.6625, 63.6640(a), and Table 6(9)(a)</u> | <u>P/E</u> | <u>Maintenance plan and records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – B
Applicable Limits and Compliance Monitoring Requirements
S-12, S-13 DIESEL IC ENGINES FOR POWER GENERATION

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|----------------------|---|--------|-----------------------|---|---|------------------------------|------------------------------|
| Maintenance Criteria | 40 CFR Part 63, Subpart ZZZZ , Sections 63.6603(a), 63.6640(a), Table 2d(1)(c) | Y | 5/3/13 | Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary | 40 CFR Part 63, Subpart ZZZZ , Sections 63.6625, 63.6640(a), and Table 6(9)(a) | P/E | Maintenance plan and records |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 10861

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---|--------------------------|----------|-----------------------|--|--|------------------------------|--|
| Gasoline Throughput | BAAQMD Condition # 14098 | N | | ≤ 940,000 gallons per 12-month period | BAAQMD 8-7-501.1 and 8-7-503.1 | P/A | Records |
| Throughput (exempt from Phase I) | BAAQMD 8-7-114 | Y | | ≤ 1000 gallons per facility for tank integrity leak checking | BAAQMD 8-7-501.1 and 8-7-503.2 | P/E | Records |
| Organic Compounds | BAAQMD 8-7-301.6 | Y | | All Phase I Equipment (except components with allowable leak rates) shall be leak free (≤ 3 drops/minute) and vapor tight | BAAQMD Condition # 1651625107 | P/A | Static Pressure Performance Test, ST-38 |
| Organic Compounds | BAAQMD 8-7-302.5 | Y | | All Phase II Equipment (except components with allowable leak rates or at the nozzle/fill-pipe interface) Shall Be: leak free (≤ 3 drops/minute) and vapor tight | BAAQMD Condition # 1651625107 | P/A | Static Pressure Performance Test, ST-38 |
| <u>Organic Compounds</u> | <u>SIP 8-5-303.2</u> | <u>Y</u> | | <u>Tank Pressure Vacuum Valve Shall Be: Gas Tight or < 500 ppmv (expressed as methane) above background for PRVs (as defined in SIP 8-5-206)</u> | <u>SIP 8-5-403 and 8-5-503</u> | <u>P/E</u> | <u>Semi-Annual Inspection with Portable Hydrocarbon Detector</u> |
| <u>Defective Component Repair/ Replacement Time Limit</u> | <u>BAAQMD 8-7-302.4</u> | <u>Y</u> | | <u>≤ 7 days</u> | <u>BAAQMD 8-7-503.2</u> | <u>P/E</u> | <u>Records</u> |

VII. Applicable Limits and Compliance Monitoring Requirements

Table VII – C
Applicable Limits and Compliance Monitoring Requirements
S-14 NON-RETAIL GASOLINE DISPENSING FACILITY, G# 10861

| Type of Limit | Citation of Limit | FE Y/N | Future Effective Date | Limit | Monitoring Requirement Citation | Monitoring Frequency (P/C/N) | Monitoring Type |
|---------------------------------------|-----------------------------------|----------|-----------------------|--|---|------------------------------|---|
| <u>Liquid Removal Rate</u> | <u>BAAQMD 8-7-302.8</u> | <u>Y</u> | | <u>> 5 ml per gallon dispensed, when dispensing rate > 5 gallons/minute</u> | <u>CARB EO</u> | <u>P/E</u> | <u>CARB Certification Procedures</u> |
| <u>Liquid Retain from Nozzles</u> | <u>BAAQMD 8-7-302.12</u> | <u>Y</u> | | <u>< 100 ml per 1000 gallons dispensed</u> | <u>CARB EO</u> | <u>P/E</u> | <u>CARB Certification Procedures</u> |
| <u>Nozzle Spitting</u> | <u>BAAQMD 8-7-302.13</u> | <u>Y</u> | | <u>< 1.0 ml per nozzle per test</u> | <u>CARB EO</u> | <u>P/E</u> | <u>CARB Certification Procedures</u> |
| <u>Pressure-Vacuum Valve Settings</u> | <u>BAAQMD 8-7-316 and CARB EO</u> | <u>Y</u> | | <u>Pressure Setting: > 2.5 inches of water, gauge</u> | <u>CARB EO</u> | <u>P/E</u> | <u>CARB Certification Procedures</u> |
| <u>Pressure-Vacuum Valve Settings</u> | <u>SIP 8-5-303.1</u> | <u>Y</u> | | <u>Pressure Setting: > 10% of maximum working pressure or > 0.5 psig</u> | <u>SIP 8-5-403 and CARB EO</u> | <u>P/E</u> | <u>Semi-Annual Inspection and CARB Certification Procedures</u> |
| <u>Organics</u> | <u>BAAQMD 8-7-301.6</u> | <u>Y</u> | | <u>All Phase I Equipment (except components with allowable leak rates) shall be leak free (<3 drops/minute) and vapor tight</u> | <u>CARB EO and BAAQMD 8-7-301.13 and 8-7-407 and BAAQMD Condition # 25107 40 CFR Part 63 Subpart CCCCCC</u> | <u>P/A</u> | <u>Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System</u> |

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 <u>and</u> <u>SIP 6-301</u> | Ringelmann No. 1 Limitation | Manual of Procedures, Volume I, Evaluation of Visible Emissions; <u>or</u> <u>US EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources</u> |
| BAAQMD 6-1-303 <u>and</u> <u>SIP 6-301</u> | Ringelmann No. 2 Limitation | Manual of Procedures, Volume I, Evaluation of Visible Emissions; <u>or</u> <u>US EPA Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources</u> |
| BAAQMD 6-1-310 <u>and</u> <u>SIP 6-301</u> | Particulate Weight Limitation | Manual of Procedures, Volume IV, ST-15, Particulate <u>Sampling</u> <u>or</u> <u>US EPA Method 5, Determination of Particulate Matter Emissions from Stationary Sources</u> |
| BAAQMD 6-1-311 <u>and</u> <u>SIP 6-311</u> | Process Weight Rate Based Emissions Limits | Manual of Procedures, Volume IV, ST-15, Particulates Sampling, <u>or</u> Calculate Emissions in Accordance with EPA AP-42 Procedures |
| BAAQMD 8-2-301 <u>and</u> <u>SIP 8-2-301</u> | <u>Total Organic Compound (TOC)</u> <u>Emission-Mass and</u> <u>Concentration</u> Limitations for Miscellaneous Operations | Manual of Procedures, Volume IV, ST-7, <u>Non-Methane Organic Carbon Sampling</u> <u>Compounds</u> ; <u>or</u> EPA Reference Method 25 <u>Determination of Total Gaseous Nonmethane Organic Emissions as Carbon</u> , <u>or</u> 25A, <u>Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer</u> |
| <u>SIP 8-5-303.2</u> | <u>Gas Tight Requirement for PRV</u> | <u>US EPA Reference Method 21, Determination of Volatile Organic Compound Leaks</u> |
| BAAQMD 8-7-301.6 | Vapor Tightness Requirement | Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks <u>or</u> ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks |

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**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|-------------------------------|--|--|
| BAAQMD 8-7-302.5 | Vapor Tightness Requirement | Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks |
| BAAQMD 8-7-302.8 | Liquid Removal Rate | Manual of Procedures, Volume IV, ST-37, Gasoline Dispensing Facility Liquid Removal Devices or ARB Test Method TP-201.6 Determination of Liquid Removal of Vapor Recovery Systems of Dispensing Facilities |
| BAAQMD 8-7-302.12 | Liquid Retain from Nozzles | Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses or CARB Test Procedure TP-201.2E; or CARB determined equivalent |
| BAAQMD 8-7-302.13 | Nozzle Spitting | Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses or CARB Test Procedure TP-201.2D; or CARB determined equivalent |
| SIP 8-7-302.12 | Liquid Retain from Nozzles | Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses |
| SIP 8-7-302.13 | Nozzle Spitting | Manual of Procedures, Volume IV, ST-41, Gasoline Liquid Retention in Nozzles and Hoses |
| BAAQMD 8-34-301.2 | Collection and Control System <u>Component</u> Leak Limitations | <u>US</u> EPA Reference Method 21, Determination of Volatile Organic Compound Leaks |
| BAAQMD 8-34-301.3 | <u>NMOC</u> Limits for Flares | Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or <u>US</u> EPA Reference Method 18, 25, 25A, or 25C |
| BAAQMD 8-34-303 | Landfill Surface <u>Leak Limit</u> <u>Requirements</u> | <u>US</u> 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 | <u>Wellhead</u> Temperature <u>Limit for Gas at Wellheads</u> | APCO Approved Device |
| BAAQMD 8-34-305.3 | <u>Wellhead</u> Nitrogen <u>Concentration Limit for Gas at Wellheads</u> | <u>US</u> 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 8-34-305.4 | Wellhead -Oxygen Concentration Limit in Gas at Wellheads | US EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources |
| BAAQMD 8-34-412 | Compliance Demonstration Test | US EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases |
| BAAQMD 9-1-301 | Limitations on Ground Level Concentrations (SO ₂) | Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide |
| BAAQMD 9-1-302 | General Emission Limitation (SO ₂) | Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling; or ST-19B, Total Sulfur Oxides, Integrated Sample |
| BAAQMD 9-1-304 | Liquid Fuel Sulfur Content Limit | Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil |
| 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 9-8-304.2 | NO_x Emission Limit for Compression-Ignited Engines (> 175 bhp) | For Source Tests: Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling; and For Quarterly Compliance Checks Conducted Pursuant to Regulation 9-8-503: Portable NO_x and O₂ Analyzers calibrated and used in accordance with manufacturer's recommended procedures with NO_x readings averaged over a consecutive 15-minute period |
| BAAQMD 9-8-304.2 | CO Emission Limit for Compression-Ignited Engines (> 175 bhp) | For Source Tests: Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling; and For Quarterly Compliance Checks Conducted Pursuant to Regulation 9-8-503: Portable CO and O₂ Analyzers calibrated and used in accordance with manufacturer's recommended procedures |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|---------------------------------|---|---|
| BAAQMD 9-8-305 | NO_x Emission Limit (delayed compliance option) | For Source Tests: Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling; and For Quarterly Compliance Checks Conducted Pursuant to Regulation 9-8-503: Portable NO_x and O₂ Analyzers calibrated and used in accordance with manufacturer's recommended procedures with NO_x readings averaged over a consecutive 15-minute period |
| BAAQMD 9-8-305 | CO Emission Limit (delayed compliance option) | For Source Tests: Manual of Procedures, Volume IV, ST-6, Carbon Monoxide, Continuous Sampling and ST-14, Oxygen, Continuous Sampling; and For Quarterly Compliance Checks Conducted Pursuant to Regulation 9-8-503: Portable CO and O₂ Analyzers calibrated and used in accordance with manufacturer's recommended procedures |
| 40 CFR 60.8 | Performance Tests | US EPA Reference Method 18, Measurement of Gaseous Organic Compound Emissions by Gas Chromatography, Method 25, Determination of Total Gaseous Nonmethane Organic Emissions as Carbon, Method 25A, Determination of Total Gaseous Organic Concentration Using a Flame Ionization Analyzer, or Method 25C, Determination of Nonmethane Organic Compounds (NMOC) in MSW Landfill Gases |
| BAAQMD Condition # 1948, Part 2 | Acceptance Criteria for Soils containing VOCs (VOC determination) | BAAQMD 8-40-601 and US EPA Reference Methods 8015B and 8021B ; or US EPA Reference Method 21 |
| BAAQMD Condition # 1948, Part 3 | Emission Limit for Low VOC Soils | BAAQMD 8-40-601 and US EPA Reference Methods 8015B and 8021B ; or US EPA Reference Method 21 and APCO Approved Calculation Procedure Described in BAAQMD Condition # 1948, Part 3 |
| BAAQMD Condition # 1948, Part 8 | Heat Input Limits | APCO approved gas flow meter and APCO approved calculation procedure described in BAAQMD Condition # 1948, Part 8 |
| BAAQMD Condition # 1948, Part 9 | Flare Combustion Temperature Limit | APCO Approved Device |

VIII. Test Methods

**Table VIII
 Test Methods**

| Applicable Requirement | Description of Requirement | Acceptable Test Methods |
|--|--|---|
| BAAQMD Condition # 1948, Part 10 | Landfill Gas Sulfur Content Limit | Draeger Tube: measuring hydrogen sulfide, used in accordance with manufacturer's recommended procedures, <u>or</u> Manual of Procedures, Volume III, Method 5 Determination of Total Mercaptans in Effluents and Method 25 Determination of Hydrogen Sulfide in Effluents, or Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods |
| BAAQMD Condition # 1948, Part 11 | Compliance Demonstration Tests | 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; ST-7, Organic Compounds; ST-19A, Sulfur Dioxide, Continuous Sampling; or US EPA Reference Methods 3C, 18, 25, 25A, or 25C |
| BAAQMD Condition # 1948, Part 12 | Landfill Gas Characterization Analyses | US EPA Reference Methods 3C, 18, 25, 25A, or 25C and Manual of Procedures, Volume III, Method 5 Determination of Total Mercaptans in Effluents and Method 25 Determination of Hydrogen Sulfide in Effluents, or Method 44 Determination of Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by Gas Chromatographic Methods |
| BAAQMD Condition # 16516 | Static Pressure Performance Test | Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks |
| BAAQMD Condition # 1896, Part 1 | Fuel Sulfur Content | Manual of Procedures, Volume III, Method 10, Determination of Sulfur in Fuel Oil |
| BAAQMD Condition # 25107 | Static Pressure Performance Test | Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks |

IX. PERMIT SHIELD

Not Applicable.

X. REVISION HISTORY

Initial ~~Final~~-Title V Permit Issuance (Application #2774): August 15, 2003

Administrative Amendment (no application #): January 5, 2004

- Revised reporting dates in Condition # 1948, Part 15.
- Added Section X Revision History and renumbered subsequent sections.

Minor Revision (Application #11205): May 18, 2006

- Change the Responsible Official from Larry Burch to Bryce Howard. Change the Facility Contact to Richard Covington.
- Update the number of Vertical Gas Collection Wells given in Table IIA from 18 to 54 wells
- Remove the Wood Grinder S-10, the Diesel IC Engine for the Wood Grinder, S-11, and the Water Spray System for the Wood Grinder, A-11 from Tables IIA and IIB. This equipment is no longer located at the facility.
- Add language to Section III to clarify that this section contains requirements that may apply to temporary sources.
- Modify Sections III and IV to state that SIP standards are now found on EPA's website and are not included as part of the permit. The updated website address has been added.
- Delete SIP Regulation 1-523.5 "Maintenance and Calibration" in Table IV-A. BAAQMD Regulation 1-523.5 is now SIP approved and federally enforceable.
- Remove the future effective dates for 40 CFR Part 63 in Table IV-A.
- Remove Tables IV-B and IV-C and Tables VII-B and VII-C because the Wood Grinder S-10 and the Diesel IC Engine for the Wood Grinder, S-11 are no longer located at the facility. Change the letter designations of the remaining tables accordingly.
- Modify Condition #1948, Part 6 to account for the additions and removal of equipment as specified in Authority to Construct #11204.
- Modify Condition #1948, Part 14.c to clarify the requirements for alternative daily cover.
- Delete Conditions #20044 and #20046 because the Wood Grinder S-11 and the Diesel IC Engine for the Wood Grinder, S-11 have been removed.
- Add a paragraph to the standard text of Section VII to state that Sections I-VI take precedence if there is a conflict with the VII Tables.
- Remove test methods for requirements pertaining to S-10 and S-11 from Table VIII.
- Remove Section XII "Applicable State Implementation Plan". The address for EPA's website is now found in Sections III and IV.

X. Revision History

Administrative Amendment (Application #15067): **October 23, 2006**

- Revised Responsible Official

Administrative Amendment (Application #20983): **September 29, 2011**

- Change Designated Responsible Official and Facility Contact from Kevin Finn to James Dunbar, District Manager.
P.O. Box 68
Fairfield, CA 94533

Permit Renewal (Application #17480) (enter date)

- Add and revise introductions in Sections I, III, IV, VII, and VIII to conform to current standard text.
- Incorporate source number changes into this permit that were implemented pursuant to the BAAQMD annual permit renewal process. The active landfill, Source S-1, was split into three sources (S-1, S-202, and S-203) that represent different processes and activities that occur at active landfills. The new source numbers were added to Tables II-A, IV-A, VII-A, and Condition # 1948.
- Add and correct capacity and descriptions of devices in Section II.
- Correct and update regulatory references and amendment dates throughout the permit.
- Add several missing BAAQMD and federal regulations to Table III, and add several new California regulations to Table III.
- Add new federal, state, and District requirements to Tables IV-B and VII-B for the S-13 Diesel Engine
- Add missing SIP Regulation 8, Rule 5 requirements for S-14 GDF to Tables IV-C and VII-C and update BAAQMD Regulation 8, Rule 7 requirements and CARB EO requirements.
- Add unpermitted operations and compliance milestones to Section V.
- Update permit conditions by incorporating standard format and revisions from NSR applications for landfill collection system components (NSR Applications #15717, 17021, and 23084).
- Add SO₂ testing to the annual source test for the landfill gas flare.
- Update the standard condition for the gasoline dispensing facility.
- Update references to permit condition changes and new regulations throughout the permit.
- Add symbols to Tables VII-A-C to clarify limits and update references.
- Update test method references in Table VIII.
- Update Section X Revision History by including missing application numbers and descriptions of the changes for this renewal application.
- Add terms to the Section XI Glossary

XI. GLOSSARY

ACT

Federal Clean Air Act

AP-42

An EPA Document “Compilation of Air Pollution Emission Factors” that is used to estimate emissions from numerous source types. It is available electronically from EPA’s web site at: <http://www.epa.gov/ttn/chief/ap42/index.html>

APCO

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

ARB

Air Resources Board (same as CARB)

ASTM

American Society for Testing and Materials

ATC

Authority to Construct

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 that allows the District to impose requirements.

C1

An organic chemical compound with one carbon atom, for example: methane

C3

An organic chemical compound with three carbon atoms, for example: propane

XI. Glossary

C5

An organic chemical compound with five carbon atoms, for example: pentane

C6

An organic chemical compound with six carbon atoms, for example: hexane

C₆H₆

Benzene

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CARB

California Air Resources Board (same as ARB)

CCR

The California Code of Regulations

CEC

California Energy Commission

CEM

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

CEQA

California Environmental Quality Act

CFR

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

CH₄ or CH₄

Methane

XI. Glossary

CI
Compression Ignition

CIWMB
California Integrated Waste Management Board

CO
Carbon Monoxide

CO₂ or CO₂
Carbon Dioxide

CO₂e
Carbon Dioxide Equivalent. A carbon dioxide equivalent emission rate is the emission rate of a greenhouse gas compound that has been adjusted by multiplying the mass emission rate by the global warming potential of the greenhouse gas compound. These adjusted emission rates for individual compounds are typically summed together, and the total is also referred to as the carbon dioxide equivalent (CO₂e) emission rate.

CT
Combustion Zone Temperature

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

District
The Bay Area Air Quality Management District

E6, E9, E12
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, 4.53E6 equals (4.53) x (10⁶) = (4.53) x (10x10x10x10x10x10) = 4,530,000. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EG
Emission Guidelines

XI. Glossary

EO

Executive Order

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District regulations.

Federally Enforceable, FE

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

FP

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

FR

[Federal Register](#)

GDF

Gasoline Dispensing Facility

GHG

[Greenhouse Gas](#)

GLM

[Ground Level Monitor](#)

Grains

[1/7000 of a pound](#)

GWP

[Global Warming Potential. A comparison of the ability of each greenhouse gas to trap heat in the atmosphere relative to that of carbon dioxide over a specific time period.](#)

H₂S or H₂S

Hydrogen Sulfide

XI. Glossary

H2SO4 or H₂SO₄

Sulfuric Acid

H&SC

Health and Safety Code

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.

LEA

Local Enforcement Agency

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.

Long ton

2200 pounds

Major Facility

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

MAX or Max.

Maximum

XI. Glossary

MFR

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

MIN or Min.

Minimum

MOP

The District's Manual of Procedures.

MSDS

Material Safety Data Sheet

MSW

Municipal solid waste

MW

Molecular weight

N₂ or N2

Nitrogen

N₂O or N₂O

Nitrous Oxide

NA

Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

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

NMHC

Non-methane Hydrocarbons (Same as NMOC)

NMOC

Non-methane Organic Compounds (Same as NMHC)

XI. Glossary

NO₂ or NO₂
Nitrogen Dioxide

NO_x or NO_x
Oxides of nitrogen.

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

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

O₂ or O₂
Oxygen

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

PERP
Portable Equipment Registration Program

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

POC
Precursor Organic Compounds

PM
Particulate Matter

XI. Glossary

PM10 or PM₁₀

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

PM2.5 or PM_{2.5}

Particulate matter with aerodynamic equivalent diameter of less than or equal to 2.5 microns

PSD

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

PV or P/V Valve or PRV

Pressure / Vacuum Relief Valve

RICE

Reciprocating Internal Combustion Engine

RMP

Risk Management Plan

RWQCB

Regional Water Quality Control Board

S

Sulfur

SCR

A "selective catalytic reduction" unit is an abatement device that reduces NO_x concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates within a specific temperature range, and injected ammonia to promote the conversion of NO_x compounds to nitrogen gas.

Short ton

2000 pounds

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.

XI. Glossary

SO₂ or SO₂
Sulfur dioxide

SO₃ or SO₃
Sulfur trioxide

SSM
Startup, Shutdown, or Malfunction

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

TAC
Toxic Air Contaminant

TBACT
Best Available Control Technology for Toxics

THC
Total Hydrocarbons (NMHC + Methane)

therm
100,000 British Thermal Units

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

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

TPH
Total Petroleum Hydrocarbons

TRMP
Toxic Risk Management Policy

XI. Glossary

TRS

Total Reduced Sulfur, which is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO₂ that will be present in the combusted fuel gas, since sulfur compounds are converted to SO₂ by the combustion process.

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

VMT

Vehicle Miles Traveled

Symbols:

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

Units of Measure:

| | | |
|-----------------|---|-------------------------|
| <u>atm</u> | = | <u>atmospheres</u> |
| bhp | = | brake-horsepower |
| btu | = | British Thermal Unit |
| BTU | = | British Thermal Unit |
| °C | = | degrees Centigrade |
| cfm | = | cubic feet per minute |
| dscf | = | dry standard cubic feet |
| °F | = | degrees Fahrenheit |
| ft ³ | = | cubic feet |
| g | = | grams |
| gal | = | gallon |
| gpm | = | gallons per minute |
| gr | = | grains |
| hp | = | horsepower |
| hr | = | hour |

XI. Glossary

| | | |
|-----------------|--------------|------------------------------------|
| <u>in</u> | = | <u>inches</u> |
| <u>kW</u> | = | <u>kilowatt</u> |
| lb | = | pound |
| lbmol | = | pound-mole |
| in | = | inches |
| m ² | = | square meter |
| m ³ | = | cubic meters |
| min | = | minute |
| mm | = | million |
| MM | = | million |
| MM BTU | = | million BTU |
| MMcf | = | million cubic feet |
| Mg | = | mega grams |
| <u>MW</u> | = | <u>megawatts</u> |
| 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 |
| yd | = | yard |
| yd ³ | = | cubic yards |
| yr | = | year |

~~XII. APPLICABLE STATE IMPLEMENTATION PLAN~~

~~The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region IX'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>~~