

# Bay Area Air Quality Management District

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

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**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**

Dave Jappert, District Manager  
(707) 429-9600

**Facility Contact**

Dave Jappert, District Manager  
(707) 429-9600

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**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**

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Jim Karas, P.E., Director of Engineering

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Date

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## I. STANDARD CONDITIONS

### A. Administrative Requirements

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

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 5/4/11);

SIP Regulation 1 - General Provisions and Definitions

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

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 4/18/12);

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 6/15/05);

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

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

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

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

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

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

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 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 March 12, 2013 and expires on March 11, 2018. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than September 11, 2017 and no earlier than March 11, 2017. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after March 11, 2018.** 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)
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

## I. Standard Conditions

- 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 establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
  11. The responsible official shall certify all documents submitted by the facility

## **I. Standard Conditions**

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, MOP Volume II, Part 3, §4.7)

### **F. Monitoring Reports**

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. Reports shall be for the following periods: 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 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:

## I. Standard Conditions

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 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 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~~

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

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

## H. Emergency Provisions

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)

## **I. Standard Conditions**

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**

S-#	Description	Make or Type	Model	Capacity
S-1	Potrero Hills MSW Landfill, – Waste Decomposition Process, Equipped with Gas Collection System	An active municipal solid waste disposal site that is equipped with an active landfill gas collection system.		Maximum Design Capacity = 21.8 E6 yd <sup>3</sup> 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-13	Diesel IC Engine for Power Generation	John Deere	6081AF001	225 BHP, 496 in <sup>3</sup> , and 12 gallons/hr of diesel oil
S-14	Non-Retail Gasoline Dispensing Facility (G# 11138)	Two Point Phase I/Husky V Phase II Balance Vapor Recovery		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	S-1	BAAQMD Regulation 8-34-301.3, see also Table IV-A	Minimum combustion zone temperature of 1504 °F, averaged over any 3 hour period; see also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv NMOC (as CH <sub>4</sub> at 3% O <sub>2</sub> , dry)
<u>A-4</u>	<u>Landfill Gas Flare, 72 MM BTU/hr</u>	<u>S-1</u>	<u>BAAQMD Regulation 8-34-301.3, see also Table IV-A</u>	<u>Minimum combustion zone temperature of 1467 °F, averaged over any 3 hour period; see also Table VII-A</u>	<u>Either 98% destruction of NMOC or &lt; 30 ppmv NMOC (as CH<sub>4</sub> at 3% O<sub>2</sub>, dry)</u>

### 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 on the EPA Region 9 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 (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	Permits – General Requirements (4/18/121)	N
BAAQMD 2-1-429	Permits – General Requirements: Federal Emissions Statement (12/21/04)	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**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 2, Rule 5	Permits – New Source Review of Toxic Air Contaminants (1/6/10)	N
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	N
SIP Regulation 4	Air Pollution Episode Plan (8/6/90)	Y
BAAQMD Regulation 5	Open Burning (7/9/08)	N
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (12/5/07)	N
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	N
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (7/1/09)	N
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (10/18/06)	N
SIP Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (6/5/03)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	N
SIP Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N
SIP Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (3/22/95)	Y

### III. Generally Applicable Requirements

**Table III  
 Generally Applicable Requirements**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	N
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	N
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	N
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)	N
California Health and Safety Code, Title 17, Section 93106	Asbestos Airborne Toxic Control Measure for Asbestos Containing Serpentine (7/20/00)	N
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)	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (9/13/10)	Y
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos (7/20/04)	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 are posted on the EPA Region 9 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 MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/4/11)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Parametric monitor periods of inoperation	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP</b>			
<b>Regulation 1</b>	<b>General Provisions and Definitions (6/28/99)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reports of Violations	Y	
<b>BAAQMD</b>			
<b>Regulation 6, Rule 1</b>	<b>Particulate Matter – General Requirements (12/5/07)</b>		
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation (applies to <u>A-2</u> Flares only)	N	
6-1-401	Appearance of Emissions	N	
<b>SIP</b>			
<b>Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to <u>A-2</u> Flares only)	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD</b>			
<b>Regulation 8, Rule 2</b>	<b>Organic Compounds – Miscellaneous Operations (7/20/05)</b>		
8-2-301	Miscellaneous Operations (applies to VOC-laden soil handling and disposal activities only)	Y	
<b>BAAQMD</b>			
<b>Regulation 8, Rule 34</b>	<b>Organic Compounds – Solid Waste Disposal Sites (6/15/05)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	
8-34-116.2	Limits on Number of Wells Shutdown	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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 (applies to A-2 Flares only)	Y	
8-34-303	Landfill Surface Requirements	Y	
8-34-304	Gas Collection System Installation Requirements	Y	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	Y	
8-34-304.2	Based on Waste Age For Active Areas	Y	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	Y	
8-34-304.4	Based on NMOC Emission Rate	Y	
8-34-305	Wellhead Requirements	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-305.1	Wellhead Vacuum Requirements	Y	
8-34-305.2	Wellhead Temperature Limit	Y	
8-34-305.3	Nitrogen Concentration Limit for Wellhead Gas or	Y	
8-34-305.4	Oxygen Concentration Limit for Wellhead Gas	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 MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
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**S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;**  
**S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, 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 <u>A-2</u> Flares)	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorder	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations (applies to <u>A-2</u> Flares only)	Y	
9-1-302	General Emission Limitations (applies to <u>A-2</u> Flares only)	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (9/13/10)</b>		
60.4	Address	Y	
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
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**COMPACTING ACTIVITIES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart Cc</b>	<b>Standards of Performance for New Stationary Sources – Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (2/24/99)</b>		
60.36c	Compliance Times	Y	
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	
<b>40 CFR Part 62, Subpart F</b>	<b>Approval and Promulgation of State Plans for Designated Facilities and Pollutants – California (4/20/06)</b>		
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources – Existing Municipal Solid Waste Landfills	Y	
<b>40 CFR Part 63, Subpart A</b>	<b>National Emission Standards for Hazardous Air Pollutants: General Provisions (9/13/10)</b>		
63.4	Prohibited activities and circumvention	Y	

## IV. Source-Specific Applicable Requirements

**Table IV – A**  
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**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
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**S-202 POTRERO HILLS MSW LANDFILL – WASTE AND COVER MATERIAL DUMPING;**  
**S-203 POTRERO HILLS MSW LANDFILL – EXCAVATING, BULLDOZING, AND**  
**COMPACTING ACTIVITIES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Recordkeeping and reporting requirements	Y	
63.10(b)	General recordkeeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of	Y	
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
<b>40 CFR Part 63, Subpart AAAA</b>	<b>National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (4/20/06)</b>		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	
63.1955(a)	Comply with either 63.1955(a)(1) or (a)(2)	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
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**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
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**COMPACTING ACTIVITIES**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
<b>BAAQMD Condition #1948</b>			
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 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	Flares: heat input limits (Regulation 2-1-301)	Y	
Part 9	Flares: temperature limits (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 2-1-301, 8-34-301.3 8-34-412, 9-1-302)	Y	
Part 12	Annual landfill gas characterization test (Regulations 2-5-302 and 8-34-412)	Y	
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, 8-34-501, and 9-1-302)	Y	

#### IV. Source-Specific Applicable Requirements

**Table IV – A**  
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**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS, EQUIPPED**  
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**COMPACTING ACTIVITIES**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	
Part 16	Hydrogen sulfide monitoring (Regulation 9-2-301)	N	
<u>Part 17</u>	<u>NOx limit for A-4</u>	<u>Y</u>	
<u>Part 18</u>	<u>CO limit for A-4</u>	<u>Y</u>	
<u>Part 19</u>	<u>Combined CO limit for A-2 and A-4</u>	<u>Y</u>	
<u>Part 20</u>	<u>Source Testing of A-4</u>	<u>Y</u>	
<u>Part 21</u>	<u>Alternate Wellhead Temperatures</u>	<u>Y</u>	

#### IV. Source-Specific Applicable Requirements

**Table IV – B  
 Source-Specific Applicable Requirements  
 S-13 DIESEL IC ENGINE FOR POWER GENERATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 6, Rule 1</b>	<b>Particulate Matter – General Requirements (12/5/07)</b>		
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	
<b>SIP Regulation 6</b>	<b>Particulate Matter and Visible Emissions (9/4/98)</b>		
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	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-304	Liquid and Solid Fuels	Y	
<b>BAAQMD Regulation 9, Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (7/25/07)</b>		
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-13 DIESEL IC ENGINE FOR POWER GENERATION**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>SIP Regulation 9, Rule 8</b>	<b>Inorganic Gaseous Pollutants – Nitrogen Oxides and Carbon Monoxide from Stationary Internal Combustion Engines (12/15/97)</b>		
9-8-110	Exemptions	Y	
9-8-110.2	Exemption – engines fired exclusively by liquid fuels	Y	
<b>40 CFR, Part 63, Subpart ZZZZ</b>	<b>National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (6/15/04)</b>		
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	<del>5/3/13</del>
63.6603	Emission limitations and operating limitations	Y	<del>5/3/13</del>
63.6603(a)	Comply with requirements in Table 2d.1	Y	<del>5/3/13</del>
63.6605	General compliance requirements	Y	<del>5/3/13</del>
63.6605(a)	Comply with emission limitations and operating requirements at all times	Y	<del>5/3/13</del>
63.6605(b)	Operate safely using good air pollution control practices to minimize emissions	Y	<del>5/3/13</del>
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	<del>5/3/13</del>
63.6625(e)	Operate and maintain the RICE and any required control devices in accordance with manufacturer specifications and maintenance plans	Y	<del>5/3/13</del>
63.6625(h)	Minimize idle and start-up times	Y	<del>5/3/13</del>
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	<del>5/3/13</del>
63.6630	How do I demonstrate initial compliance with emission limitations and operating limitations?	Y	<del>5/3/13</del>

#### IV. Source-Specific Applicable Requirements

**Table IV – B  
 Source-Specific Applicable Requirements  
 S-13 DIESEL IC ENGINE FOR POWER GENERATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.6635	How do I monitor and collect data to demonstrate continuous compliance?	Y	<del>5/3/13</del>
63.6640	How do I demonstrate continuous compliance with the emission limitations and operating limitations?	Y	<del>5/3/13</del>
63.6640(a)	Demonstrate continuous compliance according to methods specified in Table 6	Y	<del>5/3/13</del>
63.6640(b)	Report each instance of non-compliance with an emission or operating limitation from Table 2d	Y	<del>5/3/13</del>
63.6640(e)	Report each instance of non-compliance with the applicable general provisions specified in Table 8	Y	<del>5/3/13</del>
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	
<b>CCR, Title 17, Section 93115</b>	<b>Airborne Toxic Control Measure for Stationary Compression Ignition Engines (5/19/11)</b>		
§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-13 DIESEL IC ENGINE FOR POWER GENERATION**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
§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	

#### IV. Source-Specific Applicable Requirements

**Table IV – B**  
**Source-Specific Applicable Requirements**  
**S-13 DIESEL IC ENGINE FOR POWER GENERATION**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Condition #18996</b>			
Part 1	Low sulfur fuel requirement, demonstration of sulfur content (Regulation 9-1-304)	Y	
Part 2	Observation of emissions during operation of source (Regulations 2-1-403, 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# 11138**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (10/18/06)</b>		
8-5-116	Exemption, Gasoline Storage Tanks at Gasoline Dispensing Facilities	N	
<b>SIP Regulation 8, Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (6/5/03)</b>		
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	
<b>BAAQMD Regulation 8, Rule 7</b>	<b>Organic Compounds, Gasoline Dispensing Facilities (11/6/02)</b>		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-114	Stationary Tank Testing Exemption	Y	
8-7-116	Periodic Testing Requirements Exemption	Y	
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	
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	

## IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	Y	
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	Y	
8-7-302.4	Repair Time Limit for Defective Components	Y	
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	Y	
8-7-302.12	Liquid Retain Limitation	Y	
8-7-302.13	Nozzle Spitting Limitation	Y	
8-7-302.14	Annual Back Pressure Test Requirements for Balance Systems	Y	
8-7-302.15	Annual Testing Requirements for Vacuum Assist Systems	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
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	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Recordkeeping Requirements	Y	

## IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-7-503.1	Gasoline Throughput Records	Y	
8-7-503.2	Maintenance Records	Y	
8-7-503.3	Records Retention Time	Y	
<b>40 CFR Part 63, Subpart A</b>	<b>National Emission Standards for Hazardous Air Pollutants- General Provisions (9/13/10)</b>		
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.8	Monitoring requirements	Y	
63.10	Record keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(c)	Additional record keeping requirements for sources with continuous monitoring systems	Y	
63.10(d)	General reporting requirements	Y	
63.10(e)	Additional reporting requirements for sources with continuous monitoring systems	Y	
<b>40 CFR Part 63, Subpart CCCCCC</b>	<b>National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities (1/24/2011)</b>		
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	

## IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	
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	

#### IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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	
63.11126	What are my reporting requirements?	Y	
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 of each type of malfunction which occurred during the previous calendar year and which caused any applicable emission limitation to be exceeded.	Y	
63.11130	What parts of the General Provisions apply to me?	Y	
Table 3 to Subpart CCCCCC of Part 63	Applicability of General Provisions	Y	
<b>BAAQMD Condition #14098</b>	Gasoline Throughput Limit (Toxic Risk Management Policy)	N	
<b>BAAQMD Condition #25107</b>	Static Pressure Performance Test Requirement (Regulation 8-7-407)	Y	

#### IV. Source-Specific Applicable Requirements

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

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>State of California, Air Resources Board, Executive Order G-70-142-B</b>	<b>Certification of a Phase I Vapor Recovery System for Aboveground Gasoline Storage Tanks (9/9/94)</b>		
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	
<b>State of California, Air Resources Board, Executive Order G-70-125-AA</b>	<b>Modification of the Certification of the Husky Model V Phase II Vapor Balance System (3/16/93)</b>		
Paragraph 8	Applicability of Order	N	
Paragraph 9	Requirements for Components	N	
Paragraph 10	Requirements for Installation	N	
Paragraph 11	Limit on Dispensing Rate	N	
Paragraph 12	Requirement for Use with all Vehicles	N	
Paragraph 13	Requirement to Comply with Department of Food and Agriculture, State Fire Marshal's Office, and OSHA	N	
Paragraph 14	Performance Criterion	N	
Paragraph 15	Prohibition on Alteration of Equipment, Parts, Design, or Operation	N	
Paragraph 16	Requirement to Operate in Accordance with Manufacturer's Recommendations	N	
Paragraph 17	Requirement for Performance Check	N	



## 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 NO<sub>x</sub> 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 150 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~~180 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 March 31, 2013, the owner/operator shall submit to the District all information necessary to complete Permit Application # 24634. Within 30 days of issuance of an invoice for the application fees, the owner/operator shall submit the required fee payment.

### 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 Landfill – Waste Decomposition Process; Equipped with Gas Collection System; abated by A-2 Landfill Gas Flare, 45 MMBtu/hr maximum and A-4, Landfill Gas Flare, 72 MMBtu/hr maximum;

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 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 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 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 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 Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

- c. Materials which the owner/operator 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 receives the test results. The owner/operator 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 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 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 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 Landfill – Waste Decomposition Process; Equipped with 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, 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 one or both of the properly operating Landfill Gas Flares (A-2 and A-4). 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 owner/operator shall apply for and receive a Change of Conditions before 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 alterations that require a Change of Conditions. Adding or modifying risers, laterals, or header pipes are not subject to this requirement.

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

- a. The owner/operator 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, as evidenced by start-up/shut-down notification letters submitted to the District.

Vertical Wells: 54  
Horizontal Collectors: 24

- b. The owner/operator is authorized to make the landfill gas collection system component alterations described below.

Installation of up to 12 new horizontal trench collectors

Installation of up to 33 new vertical wells

Decommissioning of up to 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 complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118. (basis: Regulation 8-34-301.1)

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

8. The combined heat input to the A-2 Landfill Gas Flare and the A-4 Landfill Gas Flare shall not exceed 2,049.3 million BTU per day and shall not exceed 748,000 million BTU per year. In addition, the heat input to each flare shall not exceed either of the following quantities:
  - a. For A-2: 1,080 million BTU per day and ~~shall not exceed~~ 394,200 million BTU per year.
  - b. For A-4: 1,728 million BTU per day and 630,720 million BTU per year.In order to demonstrate compliance with this part, the owner/operator shall calculate and record, on a monthly basis, the maximum daily, ~~and~~ total monthly, and rolling 12-month heat input to ~~the each~~ flare and both flares combined 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: Cumulative Increase, Regulation 2-1-301)
  
9. The combustion zone temperature of the A-2 Landfill Gas Flares shall be maintained at a-the following minimum of temperatures, during all times that landfill gas is being combusted:
  - a. For A-2: 1,504 degrees F, averaged over any 3-hour period, ~~during all times that landfill gas is being combusted in the flare.~~
  - b. For A-4: 1,467 degrees F, averaged over any 3-hour period.If a source test demonstrates compliance with all applicable requirements at a different temperature, the APCO may revise 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 1300-560 ppmv (dry). In order to demonstrate compliance with this part, the owner/operator shall measure the hydrogen sulfide content in collected



## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

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~~ 504 ppmv. The landfill gas sample shall be taken from the main landfill gas header. The owner/operator shall follow the manufacturer's recommended procedures for using the draeger tube and interpreting the results. The owner/operator 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, voluntary limit on SO2 PTE to avoid public notice, Regulation 2-2-405)

11. In order to demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412 and these permit conditions, the owner/operator shall ensure that a District approved source test is conducted annually on both of the Landfill Gas Flares (A-2 and A-4). The annual source test shall determine the following:
  - a. landfill gas flow rate to ~~the each~~ flare (dry basis);
  - b. concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), methane (CH<sub>4</sub>), and total non-methane organic compounds (NMOC) in the landfill gas;
  - c. stack gas flow rate from ~~the each~~ flare (dry basis);
  - d. concentrations (dry basis) of CH<sub>4</sub>, NMOC, CO, SO<sub>2</sub>, and O<sub>2</sub> in the flare stack gas for each flare and NOx in the stack gas for A-4;
  - e. the NMOC and methane destruction ~~efficiency efficiencies~~ achieved by ~~the each~~ flare; and
  - f. the average combustion temperature ~~in the~~ for each 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 on each flare. The annual flare source test is not required for a flare that has not been operated since the last District-approved 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 60 days of the test date. (basis: Regulations 2-1-301, 8-34-301.3, 8-34-412, and 9-1-302)

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

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

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 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: Regulations 2-5-302 and 8-34-412)

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

13. In order to demonstrate compliance with the above conditions, the owner/operator 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 summary 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. The cumulative amount of waste placed in each uncontrolled area or cell, recorded on a monthly basis.
  - c. If the owner/operator plans to exclude an uncontrolled area or cell from the collection system requirement, the owner/operator 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. Daily records of low VOC soil acceptance rate and emissions, pursuant to part 3.
  - e. The dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. The dates, locations, and type of any dust suppressant applications. The dates and description of all paved roadway cleaning activities. All records shall be summarized on a monthly basis.
  - f. The initial operation date for each new landfill gas well and collector.
  - g. An accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to Part 6. 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.

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

- h. ~~Record~~ Record the operating times and the landfill gas flow rate to the A-2 Landfill Gas Flare and to the A-4 Landfill Gas Flare, ~~recorded~~ on a daily basis. Summarize these records on a monthly basis. A monthly summary of ~~Calculate and record~~ the individual heat inputs to A-2 and to A-4 and the combined heat input for both flares, pursuant to part 8, ~~shall be calculated and recorded.~~
- i. Maintain ~~C~~continuous records of the combustion zone temperature for the A-2 and A-4 Landfill Gas Flares during all hours of operation.
- j. Maintain ~~R~~records of all test dates and test results performed to maintain demonstrate compliance with parts 10, 11, and 12 above ~~or~~ and any applicable rule or regulation.
- k. ~~Records 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, 8-34-501, and 9-1-302, CA H&S Code, Title 17, Division 3, Chapter 10, Article 4, Subarticle 6)

- 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.

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

- c. Alternative daily cover, including digested dewatered, municipal sewage sludge (biosolids) and/or wood chips, may be used provided that dust and/or odor from the alternative cover are not present on adjacent property in such quantities as to cause nuisance. If the District receives and verifies 4 or more odor complaints originating from use of alternative daily cover in any consecutive 3-month period, Potrero Hills Landfill shall cease using the odor-causing 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 periods and report submittal due dates for 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 at that time.

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

- 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)

17. The owner/operator shall ensure that the emissions of Nitrogen Oxides (NOx) from the Flare A-4 do not exceed 0.06 pounds per million BTU (calculated as NO<sub>2</sub>). (Basis: RACT)
18. The owner/operator shall ensure that the emissions of Carbon Monoxide (CO) from the Flare A-4 do not exceed 0.2 pounds per million BTU. (Basis: RACT)
19. The owner/operator shall ensure that the combined emissions of Carbon Monoxide (CO) from the Flares, A-2 and A-4, do not exceed 164,500 pounds (82.25 tons) in any consecutive 12-month period. The owner/operator shall demonstrate compliance with this limit by calculating CO emissions each month for the previous 12-month period, based on the fuel usage to the flares and the CO emission rate from the most recent source test data from Parts 11 and 20 of this condition. (Basis: voluntary limit to avoid public notice, Regulation 2-2-405)

## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

20. To demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, and the above requirements, the owner/operator shall ensure that a District approved source test is conducted on the Landfill Gas Flare, A-4, within 90 days of startup, followed by annual source tests thereafter as detailed in Part 11. The facility shall obtain prior approval from the Source Test Manager for the location of sampling ports and source testing procedures. The startup and annual source tests shall measure the data specified in Parts 11, 17, 18, and 19 above. 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 60 days of the test date. (Basis: Regulation 8-34-301, RACT, TBACT)

21. The gas collection system operating requirements listed below shall replace the well head requirements identified in Regulation 8-34-305.2 through 8-34-305.4 for the specified wells. All landfill gas collection wells remain subject to the Regulation 8-34-305.1 requirement to maintain vacuum at each well head.

a. The temperature limit in Regulation 8-34-305.2 shall not apply to the following wells, provided that the landfill gas temperature at each well does not exceed 145 degrees F (63 degrees C) and either the nitrogen level is less than 10% by volume or the oxygen level is less than 5% by volume:

<u>EW-06-04R</u>	<u>EW-09-04</u>	<u>EW-14-07</u>
<u>EW-06-05R</u>	<u>EW-11-01</u>	<u>EW-14-25</u>
<u>EW-06-09</u>	<u>EW-11-02</u>	<u>EW-14-28</u>
<u>EW-07-04R</u>	<u>EW-11-03</u>	<u>EW-14-29</u>
<u>EW-07-21R</u>	<u>EW-11-05</u>	<u>EW-1001</u>
<u>EW-09-01</u>	<u>EW-11-06</u>	<u>LW-11-01</u>
<u>EW-09-03</u>	<u>EW-13-02</u>	<u>LW-11-02</u>

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## VI. Permit Conditions

### Condition #1948

For: S-1 Potrero Hills MSW Landfill – Waste Decomposition Process; Equipped with 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, Bulldozing, and Compacting Activities

- b. The owner/operator shall demonstrate compliance with the alternative wellhead landfill gas temperature and gas composition specified in Part 21(a) above by monitoring the temperature and nitrogen concentration or oxygen concentration at each wellhead on a monthly basis, in accordance with Regulation 8-37-505.
- c. All records to demonstrate compliance with Part 21(a) and all applicable sections of Regulation 8, Rule 34 shall be recorded in a District-approved log and made available to District staff upon request.
- d. If the temperatures measured at any of the wells listed in Part 21(a) exceed 131 degrees F, the owner/operator shall perform monthly CO monitoring using Draeger tubes, or a District/EPA-approved monitoring device.
  - i. If the measured field CO readings are less than 200 ppmv, the well may continue to operate up to temperature less than 145 degrees F;
  - ii. If the measured field CO readings are equal to or greater than 200 ppmv and less than or equal to 500 ppmv, the well shall be monitored on a weekly basis to verify that there is no subsurface oxidation occurring. Once the CO levels decrease to below 200 ppmv, the monthly monitoring schedule shall resume;
  - iii. If the measured field CO readings are greater than 500 ppmv, the well shall be temporarily closed and documented and a sample shall be obtained within one week of the exceedance and analyzed for CO using EPA Method D-1946. If the results confirm the readings are in excess of 500 ppmv, the well shall remain closed and offline and the owner/operator shall notify the District within 24 hours of the exceedance and shall take all measures necessary to investigate the possibility of subsurface fires. If a fire is suspected, the owner/operator shall employ all means as appropriate to extinguish the fire, repair the well, and bring the well back into service.

(Basis: Regulation 8-34-305, 8-34-505)



## VI. Permit Conditions

### Condition # 14098

For: S-14, Non-Retail Gasoline Dispensing Facility G# 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 # 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](mailto: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](mailto: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-13, Diesel IC Engine for Electrical Power Generation

1. Only low sulfur fuel (<0.05% sulfur by weight) shall be combusted at 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 Engine 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: Regulations 6-1-303, 6-1-401, and 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 MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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, and Condition 1948, Part 13h	C	Gas Flow Meter and Recorder (every 15 minutes)
Gas Flow	BAAQMD Condition # 1948, Parts 5 and 6	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

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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 and Control Systems Shutdown Time	BAAQMD 8-34-113.2	Y		≤ 240 hours per year and ≤ 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
Temperature of Gas at Wellhead	BAAQMD 8-34-305.2	Y		<u>Applies to all wells, except as specified in Condition #1948, Part 21:</u> < 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		<u>Applies to all wells, except as specified in Condition #1948, Part 21:</u> N <sub>2</sub> < 20% by volume <b>OR</b> O <sub>2</sub> < 5% by volume	BAAQMD 8-34-414, 501.9 and 505.3 or 505.4	P/M	Monthly Inspection and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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>Alternate Operating Parameters for Specified Wellheads</u>	<u>BAAQMD Condition #1948, Part 21a</u>	<u>Y</u>		<u>Applies to Specified Wells:</u> <u>Gas temperature:</u> <u>&lt; 145 °F (&lt; 63 °C)</u> <u>AND</u> <u>N<sub>2</sub> &lt; 10% by volume</u> <u>OR</u> <u>O<sub>2</sub> &lt; 5% by volume</u>	<u>BAAQMD Condition #1948, Part 21b</u>	<u>P/M or W</u>	<u>Monthly Inspection and Records</u>
<u>Carbon Monoxide for Specified Wells Subject to Alternate Wellhead Operating Parameters</u>	<u>BAAQMD Condition #1948, Part 21d</u>	<u>Y</u>		<u>Applies to Specified Wells:</u> <u>&lt; 200 ppmv, no action;</u> <u>&gt; 200 ppmv but &lt; 500 ppmv, weekly monitoring;</u> <u>&gt; 500 ppmv – well must be shutdown and further CO analysis performed within 1 week.</u>	<u>BAAQMD Condition #1948, Part 21d</u>	<u>P/M or W</u>	<u>Monthly Inspection and Records</u>
Well Shutdown Limits for Well Raising	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 for Well Raising	BAAQMD 8-34-116.3	Y		≤24 consecutive hours per well	BAAQMD 8-34-116.5 and 501.1	P/D	Records
Well Shutdown Limits for Repair, Construction, Fire	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

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
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**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
Well Shutdown Limits for Repair, Construction, Fire	BAAQMD 8-34-117.5	Y		≤ 24 consecutive hours per well	BAAQMD 8-34-117.6 and 501.1	P/D	Records
Landfill Construction Activity Limits	BAAQMD 8-34-118.5	Y		Excavated refuse covered immediately and disposed of ≤ 24 hours	BAAQMD 8-34-118.9 and 501.1	P/D	Records
Landfill Construction Activity Limits	BAAQMD 8-34-118.6	Y		Drilled wells and excavated trenches covered ≤ 8 hours	BAAQMD 8-34-118.9 and 501.1	P/D	Records
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with OVA and Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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
TOC	BAAQMD 8-34-303	Y		Surface Leak Limit: ≤ 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
Non-Methane Organic Compounds (NMOC)	BAAQMD 8-34-301.3	Y		≥ 98% removal by weight OR < 30 ppmv, dry basis @ 3% O <sub>2</sub> , expressed as methane (applies to A-2 <u>and A-4</u> Flares 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 ≥ 1504 °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)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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 Combustion Zone (CT)	BAAQMD Condition # 1948, Part 9	Y		CT > 1467 °F, averaged over any 3-hour period (applies to A-4 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
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	N		Ringelmann No. 1 for ≤ 3 minutes/hr (applies to S-202 and S-203)	BAAQMD Condition # 1948, Part 13e	P/E, M	Records of all site watering and road cleaning events
Opacity	BAAQMD 6-1-301	N		Ringelmann No. 1 for < 3 minutes/hr (applies to A-2 <u>and A-4 Flares only</u> )	None	N	NA
FP	BAAQMD 6-1-310	N		≤ 0.15 grains/dscf (applies to A-2 <u>and A-4 Flares only</u> )	None	N	NA



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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
Opacity	SIP 6-301	Y		Ringelmann No. 1 for $\leq 3$ minutes/hr (applies to S-202 and S-203)	BAAQMD Condition # 1948, Part 13e	P/E, M	Records of all site watering and road cleaning events
Opacity	SIP 6-301	Y		Ringelmann No. 1 for $\leq 3$ minutes/hr (applies to A-2 <u>and A-4</u> Flares)	None	N	N/A
FP	SIP 6-310	Y		$\leq 0.15$ grains/dscf (applies to A-2 <u>and A-4</u> Flares only)	None	N	N/A
SO <sub>2</sub>	BAAQMD 9-1-301	Y		Property Line Ground Level Limits: $\leq 0.5$ ppm for 3 minutes and $\leq 0.25$ ppm for 60 min. and $\leq 0.05$ ppm for 24 hours (applies to A-2 <u>and A-4</u> Flares only)	None	N	NA
SO <sub>2</sub>	BAAQMD Regulation 9-1-302	Y		$\leq 300$ ppm (dry basis) (applies to A-2 <u>and A-4</u> Flares only)	BAAQMD Condition # 1948, Parts 10, 11d, and 13j	P/Q	Sulfur analysis of landfill gas and source test
Total Sulfur Content in Landfill Gas	BAAQMD Condition # 1948, Part 10	Y		$\leq$ <del>4300-560</del> ppmv of TRS, expressed as H <sub>2</sub> S, or $\leq$ <del>4000-504</del> ppmv of hydrogen sulfide (H <sub>2</sub> S), when measured using a Draeger Tube	BAAQMD Condition # 1948, Parts 10 and 13j	P/Q	Sulfur analysis of landfill gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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
H <sub>2</sub> 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	BAAQMD Condition # 1948, Part 16	P/E	Monitoring to be proposed by operator
Amount of Waste Accepted	BAAQMD Condition # 1948, Part 1a	Y		≤ 4430 tons per day	BAAQMD Condition # 1948, Part 13a	P/D	Records
Amount of Waste Accepted	BAAQMD Condition # 1948, Part 1b	Y		≤ 13,100,000 tons (cumulative amount of all decomposable materials placed in landfill)	BAAQMD Condition # 1948, Part 13a	P/D	Records
Amount of Waste Accepted	BAAQMD Condition # 1948, Part 1c	Y		≤ 21,800,000 yd <sup>3</sup> (cumulative amount of all wastes and cover materials placed in landfill)	BAAQMD Condition # 1948, Part 13a	P/D	Records
<u>Heat Input</u>	<u>BAAQMD Condition # 1948, Part 8</u>	<u>Y</u>		<u>For A-2 and A-4, combined: &lt; 2,049.3 MM BTU per day and &lt; 748,000 MM BTU per year</u>	<u>BAAQMD Condition # 1948, Part 8</u>	<u>P/D</u>	<u>Records</u>
Heat Input	BAAQMD Condition # 1948, Part 8a	Y		For A-2: ≤ 1,080 MM BTU per day and ≤ 394,200 MM BTU per year	BAAQMD Condition # 1948, Part 8	P/D	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 POTRERO HILLS MSW LANDFILL – WASTE DECOMPOSITION PROCESS; EQUIPPED**  
**WITH LANDFILL GAS COLLECTION SYSTEM;**  
**ABATED BY A-2 LANDFILL GAS FLARE AND A-4 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>Heat Input</u>	<u>BAAQMD Condition # 1948, Part 8b</u>	<u>Y</u>		<u>For A-4: &lt; 1,728 MM BTU per day and &lt; 630,720 MM BTU per year</u>	<u>BAAQMD Condition # 1948, Part 8</u>	<u>P/D</u>	<u>Records</u>
<u>NOx</u>	<u>BAAQMD Condition #1948, Part 17</u>	<u>Y</u>		<u>≤ 0.06 pounds per million BTU, calculated as NO2 (applies to A-4 Flare only)</u>	<u>BAAQMD Condition #1948, Parts 11 and 20</u>	<u>P/A</u>	<u>Source testing</u>
<u>CO</u>	<u>BAAQMD Condition #1948, Part 18</u>	<u>Y</u>		<u>≤ 0.2 pounds per million BTU (applies to A-4 Flare only)</u>	<u>BAAQMD Condition #1948, Parts 11 and 20</u>	<u>P/A</u>	<u>Source testing</u>
<u>CO</u>	<u>BAAQMD Condition #1948, Part 19</u>	<u>Y</u>		<u>≤ 165,500 pounds (&lt; 82.25 tons) in any consecutive 12-month period from A-2 and A-4, combined</u>	<u>BAAQMD Condition #1948, Parts 11 and 20</u>	<u>P</u>	<u>Source testing and emission calculations</u>
Startup Shutdown or Malfunction Procedures	40 CFR 63.6(e)	Y		Minimize Emissions by Implementing SSM Plan	40 CFR 63.1980(a-b)	P/E	Records (all occurrences, duration of each, corrective actions)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-13 DIESEL IC ENGINE 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 $\leq 3$ minutes in any hour	BAAQMD Condition # 18996, Part 2	P/E	Observation for Visible Smoke
FP	BAAQMD Regulation 6-1-310	N		$\leq 0.15$ gr per dscf	None	N	NA
Opacity	SIP Regulation 6-303	Y		Ringelmann 2.0 for $\leq 3$ minutes in any hour	BAAQMD Condition # 18996, Part 2	P/E	Observation for Visible Smoke
FP	SIP Regulation 6-310	Y		$\leq 0.15$ gr per dscf	None	N	NA
Diesel PM	CCR Title 17, §93115.7(b)(1)	N		For non-certified engines: 85% reduction from baseline levels or 0.01 g/bhp-hr	CCR Title 17, §93115.13(a)	P/E	Source test data
NOx	BAAQMD Regulation 9-8-304.2	N		$\leq 110$ ppmv, corrected to 15% oxygen, dry basis	BAAQMD Regulation 9-8-501, 9-8-503	P – Initial and P/Q	Initial Source Test and Portable Analyzer
CO	BAAQMD Regulation 9-8-304.2	N		$\leq 310$ ppmv, corrected to 15% oxygen, dry basis	BAAQMD Regulation 9-8-501, 9-8-503	P – Initial and P/Q	Initial Source Test and Portable Analyzer
SO <sub>2</sub>	BAAQMD Regulation 9-1-301	Y		Property Line Ground Level Limits: $\leq 0.5$ ppm for 3 minutes and $\leq 0.25$ ppm for 60 min. and $\leq 0.05$ ppm for 24 hours	None	N	NA
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		$\leq 0.5\%$ sulfur by weight	BAAQMD Condition # 18996, Part 1	P/E	Vendor Certification

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-13 DIESEL IC ENGINE 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
Fuel Sulfur Content	BAAQMD Condition # 18996, Part 1	Y		≤ 0.05% sulfur by weight	BAAQMD Condition # 18996, Part 1	P/E	Vendor Certification
Fuel Sulfur Content	CCR Title 17, §93115.5(a)	N		CARB diesel 0.0015% sulfur by weight and aromatic HC <u>≤ 10% by volume</u> ; alternative diesel fuel; or fuel meeting the Verification Procedure	BAAQMD Condition # 18996, Part 1	P/E	Vendor Certification
Maintenance Criteria	40 CFR Part 63, Subpart <del>ZZZZ</del> , Sections 63.6603(a), 63.6640(a), Table 2d(1)(a)	Y	<del>5/3/13</del>	Change Oil and Filter every 1,000 hours of operation or annually, whichever comes first	40 CFR Part 63, Subpart <del>ZZZZ</del> , Sections 63.6625, 63.6640(a), and Table 6(9)(a)	P/E	Maintenance plan and records
Maintenance Criteria	40 CFR Part 63, Subpart <del>ZZZZ</del> , Sections 63.6603(a), 63.6640(a), Table 2d(1)(b)	Y	<del>5/3/13</del>	Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary	40 CFR Part 63, Subpart <del>ZZZZ</del> , 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 – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-13 DIESEL IC ENGINE 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	<del>5/3/13</del>	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 # 25107	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 # 25107	P/A	Static Pressure Performance Test, ST-38
Organic Compounds	SIP 8-5-303.2	Y		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)	SIP 8-5-403 and 8-5-503	P/E	Semi-Annual Inspection with Portable Hydrocarbon Detector
Defective Component Repair/ Replacement Time Limit	BAAQMD 8-7-302.4	Y		≤ 7 days	BAAQMD 8-7-503.2	P/E	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
Liquid Removal Rate	BAAQMD 8-7-302.8	Y		≥ 5 ml per gallon dispensed, when dispensing rate > 5 gallons/minute	CARB EO	P/E	CARB Certification Procedures
Liquid Retain from Nozzles	BAAQMD 8-7-302.12	Y		≤ 100 ml per 1000 gallons dispensed	CARB EO	P/E	CARB Certification Procedures
Nozzle Spitting	BAAQMD 8-7-302.13	Y		≤ 1.0 ml per nozzle per test	CARB EO	P/E	CARB Certification Procedures
Pressure-Vacuum Valve Settings	BAAQMD 8-7-316 and CARB EO	Y		Pressure Setting: ≥ 2.5 inches of water, gauge	CARB EO	P/E	CARB Certification Procedures
Pressure-Vacuum Valve Settings	SIP 8-5-303.1	Y		Pressure Setting: ≥ 10% of maximum working pressure or ≥ 0.5 psig	SIP 8-5-403 and CARB EO	P/E	Semi-Annual Inspection and CARB Certification Procedures
Organics	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	CARB EO and BAAQMD 8-7-301.13 and 8-7-407 and BAAQMD Condition # 25107 40 CFR Part 63 Subpart CCCCCC	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System



## 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**

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

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
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
BAAQMD 8-34-301.2	Collection and Control System Component Leak Limitations	US EPA Reference Method 21, Determination of Volatile Organic Compound Leaks
BAAQMD 8-34-301.3	NMOC Limits for Flares	Manual of Procedures, Volume IV, ST-7, Organic Compounds and ST-14, Oxygen, Continuous Sampling; or US EPA Reference Method 18, 25, 25A, or 25C
BAAQMD 8-34-303	Landfill Surface Leak Limit	US 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	Temperature Limit for Gas at Wellheads	APCO Approved Device
BAAQMD 8-34-305.3	Nitrogen Concentration Limit for Gas at Wellheads	US EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD 8-34-305.4	Oxygen Concentration Limit in Gas at Wellheads	US EPA Reference Method 3C, Determination of Carbon Dioxide, Methane, Nitrogen, and Oxygen from Stationary Sources

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
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 <sub>2</sub> )	Manual of Procedures, Volume VI, Part 1, Ground Level Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD 9-1-302	General Emission Limitation (SO <sub>2</sub> )	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling
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 <sub>x</sub> 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 <sub>x</sub> , and O <sub>2</sub> Analyzers calibrated and used in accordance with manufacturer's recommended procedures with NO <sub>x</sub> 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 O <sub>2</sub> Analyzers calibrated and used in accordance with manufacturer's recommended procedures

## VIII. Test Methods

**Table VIII  
 Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD 9-8-305	NO <sub>x</sub> 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 <sub>x</sub> , and O <sub>2</sub> Analyzers calibrated and used in accordance with manufacturer's recommended procedures with NO <sub>x</sub> 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 O <sub>2</sub> 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**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Condition # 1948, Part 10	Landfill Gas Sulfur Content Limit	Draeger Tube: measuring hydrogen sulfide, used in accordance with manufacturer's recommended procedures, or 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 # 18996, 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 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

## X. Revision History

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.

### **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):**

**March 12, 2013**

- 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.
- Revise flare temperature limit in Tables II-B and VII-A and Condition # 1948 Part 9.
- 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.



## X. Revision History

- Update permit conditions by incorporating standard format and revisions from NSR applications for landfill collection system components (NSR Applications #15717, 17021, and 23084).
- Add SO<sub>2</sub> 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

### **Administrative Amendment (Application #26118)**

**July 31, 2014**

- Change Responsible Official. [Note: This RO change was inadvertently based on the 9/29/2011 version of the permit instead of the more recent 3/12/2013 version of the permit. This amendment has been replaced in its entirety by the following corrected administrative amendment.]

### **Administrative Amendment (Application #26118)**

**September 18, 2014**

- Change Responsible Official based on the correct previous version of the MFR Permit (the 3/12/13 Permit Renewal).

### **Minor Revision (Application #26958):**

**[date]**

- Add new landfill gas flare, A-4 to Sections II, IV, VI, VII.
- Add alternate operating parameters for specified landfill wells to Sections IV, VI, VII.
- Revise Schedule of Compliance for S-13.
- Delete obsolete future effective dates from Tables IV-B and VII-B.

## **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

### **C<sub>6</sub>H<sub>6</sub>**

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<sub>x</sub> 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.

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

Methane

## **XI. Glossary**

### **CI**

Compression Ignition

### **CIWMB**

California Integrated Waste Management Board

### **CO**

Carbon Monoxide

### **CO<sub>2</sub> or CO2**

Carbon Dioxide

### **CO<sub>2</sub>e**

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 (CO<sub>2</sub>e) 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  $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$ . Scientific notation is used to express large or small numbers without writing out long strings of zeros.

### **EG**

Emission Guidelines

## **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.

### **H<sub>2</sub>S or H<sub>2</sub>S**

Hydrogen Sulfide

## **XI. Glossary**

### **H<sub>2</sub>SO<sub>4</sub> or H<sub>2</sub>SO<sub>4</sub>**

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

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

Nitrogen

### **N2O or N<sub>2</sub>O**

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**

### **NO<sub>2</sub> or NO<sub>2</sub>**

Nitrogen Dioxide

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

Oxides of nitrogen.

### **NSPS**

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

### **NSR**

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.)

### **O<sub>2</sub> or O<sub>2</sub>**

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<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

### **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 PM<sub>10</sub>**

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

### **PM2.5 or PM<sub>2.5</sub>**

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<sub>x</sub> 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<sub>x</sub> 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**

**SO<sub>2</sub> or SO<sub>2</sub>**  
Sulfur dioxide

**SO<sub>3</sub> or SO<sub>3</sub>**  
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 SO<sub>2</sub> that will be present in the combusted fuel gas, since sulfur compounds are converted to SO<sub>2</sub> 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:**

atm	=	atmospheres
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 <sup>3</sup>	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower
hr	=	hour

## XI. Glossary

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