

Feather River Air Quality Management District

Serving the Counties of Yuba and Sutter
1007 Live Oak Blvd, Suite B-3
Yuba City, CA 95991
(530) 634-7659 * Fax 634-7660

David Valler
Air Pollution Control Officer

TITLE V FEDERAL OPERATING PERMIT FRAQMD PERMIT NO. P29002

AIRS #0611529002

PERMIT ISSUED:	PERMIT LAST AMENDED:	PERMIT EXPIRES:
Xx, xx, 2010	NA	Xx, xx, 2015

ISSUED TO:

Recology Ostrom Road
5900 Ostrom Road
Wheatland, CA 95692

PLANT SITE LOCATION:

Recology Ostrom Road
5900 Ostrom Road
Wheatland, CA 95692

Responsible Official:

Responsible Official:
Mr. Phil Graham
General Manager
(530) 743-6321

Site Contact:

Responsible Official:
Mr. Phil Graham
General Manager
(530) 743-6321

Nature of Business: Municipal Solid Waste Landfill
SIC Code 4953

Reviewed by:

Matt Baldwin, Air Quality Engineer

Date

Issued by:

David Valler, Air Pollution Control Officer

Date

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I. PERMIT SUMMARY

This permit shall serve as a Permit to Operate pursuant to FRAQMD Rule 4.1 (Permits Required) and FRAQMD Rule 10.3 (Federal Operating Permits).

This air quality Permit to Operate was evaluated for compliance with FRAQMD, State of California and federal air quality rules and regulations. The following listed rules are those that were found to be applicable at the time of permit review, based on the information submitted with the Title V permit application.

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Rule 1.1	Definitions	04-17-1987	Yes
FRAQMD Rule 1.2	Validity	09-22-1972	Yes
FRAQMD Rule 3.0	Visible Emissions	04-12-1982	Yes
FRAQMD Rule 3.2	Particulate Matter Concentration (see permit shield)	04-12-1982	Yes
FRAQMD Rule 3.3	Dust and Fumes	04-12-1982	Yes
FRAQMD Rule 3.4	Separation of Emissions	04-12-1982	Yes
FRAQMD Rule 3.5	Combination of Emissions	04-12-1982	Yes
FRAQMD Rule 3.6	Sand Blasting	04-12-1982	Yes
FRAQMD Rule 3.6	Abrasive Blasting amended 06-1991 version	NA	No
FRAQMD Rule 3.10	Sulfur Oxides (see permit shield)	04-12-1982	Yes
FRAQMD Rule 3.11	Reduced Sulfur Compounds	NA	No
FRAQMD Rule 3.12	Organic Solvents	11-10-1982	Yes
FRAQMD Rule 3.13	Circumvention	04-12-1982	Yes
FRAQMD Rule 3.14	Solvent Degreasing	NA	No
FRAQMD Rule 3.15	Architectural Coatings	11-10-1982	Yes
FRAQMD Rule 3.15	Architectural Coatings amended 11-13-2002 version	NA	No
FRAQMD Rule 3.16	Fugitive Dust	NA	No
FRAQMD Rule 4.0	General Requirements	04-12-1982	Yes

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Rule 4.1	Permit Requirements	04-12-1982	Yes
FRAQMD Rule 4.2	Existing Emission Sources	04-12-1982	Yes
FRAQMD Rule 4.3	Exemptions from Permit	04-12-1982	Yes
FRAQMD Rule 4.3	Exemptions from Permit amended 10-01-2007 version	NA	No
FRAQMD Rule 4.4	Standards for Granting Applications	04-12-1982	Yes
FRAQMD Rule 4.4	Standards for Granting Applications amended 11-1993 version	NA	No
FRAQMD Rule 4.5	Conditional Approval	04-12-1982	Yes
FRAQMD Rule 4.6	Standards for Authority to Construct and Permit to Operate amended 06-07-2004 version	NA	No
FRAQMD Rule 4.7	Denial of Application	NA	No
FRAQMD Rule 4.8	Public Information	NA	No
FRAQMD Rule 4.9	Action on Applications	NA	No
FRAQMD Rule 4.10	Appeals	NA	No
FRAQMD Rule 4.11	State Ambient Air Quality Standards adopted 08/1991 version	NA	No
FRAQMD Rule 4.13	Alteration of Permit	NA	No
FRAQMD Rule 4.14	Posting of Permit	NA	No
FRAQMD Rule 4.15	Transfer of Permit	NA	No
FRAQMD Reg 5	Hearing Board Procedures	NA	No
FRAQMD Reg 6	Variances	NA	No
FRAQMD Reg 7	Fees (not SIP approved, but relevant parts of the regulation are applicable as part of U.S. EPA approval of the FRAQMD Title V program)	11-21-2003	Yes
FRAQMD Reg 8	Penalties and Abatement	NA	No
FRAQMD Rule 9.0	Enforcement	NA	No
FRAQMD Rule 9.1	Emission Monitoring	NA	No

Citation	Description	SIP Approval Date	Federally Enforceable
FRAQMD Rule 9.2	Records and Reporting	NA	No
FRAQMD Rule 9.3	Tests	NA	No
FRAQMD Rule 9.4	Field Inspection	NA	No
FRAQMD Rule 9.5	Air Pollution Equipment - Scheduled Maintenance	04-12-1982	Yes
FRAQMD Rule 9.6	Equipment Breakdowns	04-12-1982	Yes
FRAQMD Rule 9.7	Permit Actions	NA	No
FRAQMD Rule 9.8	Variance Action	NA	No
FRAQMD Rule 9.9	Notice to Comply	NA	No
FRAQMD Rule 10.1	New Source Review	NA	No
FRAQMD Rule 10.2	Emission Reduction Banking Credit	NA	No
FRAQMD Rule 10.3	Federal Operating Permits (not SIP approved but rule is applicable as part of U.S. EPA approval of the FRAQMD Title V program)	11-21-2003	Yes
FRAQMD Rule 10.6	New Source Performance Standards	NA	No
FRAQMD Rule 10.7	Toxics New Source Review	NA	No
FRAQMD Rule 11.1 and CARB Air Toxic Control Measure	State of California Air Toxic Control Measure for Chromate Treated Cooling Towers [CCR 93103]	03-09-1989 (A)	No
U.S. EPA New Source Performance Standards (NSPS)	General Provisions [40 CFR 60 Subpart A (begin at 60.1)]	06-13-2007 (B)	Yes
U.S. EPA New Source Performance Standards (NSPS)	Standards of Performance for Municipal Solid Waste Landfills [40 CFR 60 Subpart WWW (begin at 60.751)] (see permit shield)	02-24-1999 (B)	Yes

Citation	Description	SIP Approval Date	Federally Enforceable
U.S. EPA Maximum Achievable Control Technology (MACT) Standards	National Emission Standards for Hazardous Air Pollutants for Municipal Solid Waste Landfills [40 CFR 62 Subpart AAAA]	01-16-2003 (B)	Yes
U.S. EPA	Chemical Accident Prevention Provisions [40 CFR 68 (begin at 68.1)]	04-09-2004 (B)	Yes

(A) California Air Resources Board adoption date

(B) U.S. EPA promulgation date

Future changes in prohibitory rules may establish requirements that are more stringent. At the FRAQMD level, these requirements may supersede the conditions listed here. For Title V purposes however, the federally enforceable requirements are those found in the Title V permit. Federally enforceable provisions of the Title V permit do not change until the Title V permit is revised.

II. FACILITY DESCRIPTION

The following facility description is for informational purposes only and does not contain any applicable federally enforceable requirements.

Recology Ostrom Road is a Municipal Solid Waste (MSW) Landfill located in unincorporated Yuba County on Ostrom Road, approximately 6 miles east of the State Highway 65 and 1 mile east of Jasper Lane. The landfill, owned and operated by Recology Ostrom Road is approximately 221 acres in size. Currently, non-hazardous solid waste and inert waste are accepted at the landfill. The site is currently permitted to accept all non-hazardous solid wastes, including municipal solid waste, sewage sludge, as, and prune pulp for disposal into the facility.

Landfill gas (LFG) is generated in the subsurface landfill by anaerobic biological decomposition. Gas, collected through wells, is routed and combusted at G2 Energy's facility for electrical generation. When the gas is not sent to G2 Energy, it is disposed of in an enclosed flare.

The landfill is subject to 40 CFR 60 subpart WWW, and is required to control LFG emissions. The site currently combusts LFG in an enclosed flare rated at 1500 SCFM at 50% methane.

III. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL

A. GENERAL REQUIREMENTS

1. Permit Term

This permit to operate shall be valid for a term of five years from the date of issuance. Permit expiration terminates the stationary source's right to operate unless the source submits a timely and complete Title V permit application for renewal.

[FRAQMD Rule No. 10.3.F.2.o]

2. Permit Renewal

The permittee shall submit a standard FRAQMD application for renewal of the Title V permit, no earlier than 18 months and no later than six months before the expiration date of the current permit to operate.

[FRAQMD Rule No. 10.3.D.2.b and 40 CFR 70.5(a)(1)(iii)]

3. Administrative Permit Amendment

The permittee shall submit a written request to the FRAQMD Air Pollution Control Officer for an administrative permit amendment. The permittee may implement the change addressed in the written request immediately upon submittal of the request.

[FRAQMD Rule No. 10.3.D.4.a]

4. Minor Permit Modification

After obtaining any required preconstruction permits, the permittee shall submit a standard FRAQMD application for each emissions unit affected by the proposed permit revision that qualifies as a minor permit modification. The emissions unit(s) affected by the proposed permit modification shall not commence operation until the FRAQMD Air Pollution Control Officer takes final action to approve the permit revision.

[FRAQMD Rule No. 10.3.D.2.d]

5. Significant Permit Modification

After obtaining any required preconstruction permits, the permittee shall submit a standard FRAQMD application for each emissions unit affected by a proposed permit revision that qualifies as a significant permit modification. Upon request by the FRAQMD Air Pollution Control Officer, the responsible official shall submit copies of the latest preconstruction permit for each affected emissions unit. The emissions unit(s) affected by the proposed permit modification shall not commence operation until the FRAQMD Air Pollution Control Officer takes final action to issue the revised permit or until the requirements of FRAQMD Rule No. 10.3.D.2.c.2 are met.

[FRAQMD Rule No. 10.3.D.2]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

6. **Permit Modification for a Condition that is Not Federally Enforceable**
For any permit modification of a condition that is not federally enforceable, an owner or operator shall submit a written request in accordance with the requirements of FRAQMD Regulation IV.
[FRAQMD Rule No. 10.3.d.4.b]
7. **Modification, Revocation or Reopening for Cause**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated non-compliance does not stay any permit condition.
[FRAQMD Rule Nos. 10.3.E.8 and 10.3.F.2.k and 40 CFR 70.6(a)(6)(iii)]
8. **Application Content and Correctness of Applications**
The permittee shall submit a complete application as outlined in FRAQMD Rule No. 10.3 D.3.a.
[FRAQMD Rule No. 10.3.D.3.a]
- a. Upon written request of the FRAQMD Air Pollution Control Officer the permittee shall supplement any complete application with additional information within the timeframe specified by the FRAQMD Air Pollution Control Officer.
[FRAQMD Rule No. 10.3.D.3.b.1]
- b. The permittee shall promptly provide additional information in writing to the FRAQMD Air Pollution Control Officer upon discovery of submittal of any inaccurate information as part of the application or as a supplement thereto, or of any additional relevant facts previously omitted which are needed for accurate analysis of the application.
[FRAQMD Rule No. 10.3.D.3.b.2.]
- c. Intentional or negligent submittal of inaccurate information shall be reason for denial of an application.
[FRAQMD Rule No. 10.3.D.3.b.3.]
9. **Payment of fees**
Except as provided in Condition No. A.9.b the permittee shall pay an annual supplemental fee for a permit to operate pursuant to FRAQMD Rule 10.3.G as determined by the calculation method in FRAQMD Rule 10.3.G.3, to meet an overall fee rate of \$25 per ton of fee-based potential emissions (CPI adjusted).
[FRAQMD Rule No. 10.3.G and 40 CFR 70.6(a)(7)]
- a. There shall not be a supplemental annual fee if the total annual fee rate paid by the source under FRAQMD Regulation VII and California Health and

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

Safety Code Section 44380 (AB 2588 Toxic Hot Spots) equals or exceeds \$25 per ton of fee-based potential emissions (CPI adjusted). Only those AB 2588 Toxic Hot Spots fees that fund direct and indirect costs associated with activities related to the operating permits program as specified in the 1990 Clean Air Act Section 502(b)(3)(A) are to be used to meet the overall fee rate of \$25 per ton of fee-based potential emissions (CPI adjusted).
[FRAQMD Rule No. 10.3.G.2 and 40 CFR 70.6)a)(7)]

10. Right of Entry

The FRAQMD, the Executive Officer of the California Air Resources Board, the U.S. EPA Region 9 Administrator and/or their authorized representatives, upon the presentation of credentials, shall be permitted:

- a. To enter upon the premises where the emission source is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. At mutually agreed upon times to have access to and copy any records required to be kept under terms and conditions of this permit;
- c. To inspect any equipment, operation, or method required in this permit; and
- d. To obtain samples from the emission source or require samples to be taken.
[FRAQMD Rule No. 10.3.F.2.j and 40 CFR 70.6(c)(2), SAC 98-01 §V]

11. Compliance

The permittee shall comply with all permit conditions.

[FRAQMD Rule No. 10.3.F.2.k.1 and 40 CFR 70.6 (a)(6)(i)]

12. Non-Compliance

The non-compliance with any permit condition is grounds for permit termination, revocation and reissuance, modification, enforcement action, or denial of permit renewal.

[FRAQMD Rule No. 10.3.F.2.k.3 and 40 CFR 70.6 (a)(6)(i)]

13. Need To Halt or Reduce Activity Not a Defense

The permittee shall not use the "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition.

[FRAQMD Rule No. 10.3.F.2.k.4 and 40 CFR 70.6 (a)(6)(ii)]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

14. Permit Action Does Not Stay any Permit Condition

A pending permit action or notification of anticipated non-compliance does not stay any permit condition.

[FRAQMD Rule No. 10.3.F.2.k.5 and 40 CFR 70.6 (a)(6)(iii)]

15. Property Rights

The permit does not convey property rights or exclusive privilege of any sort.

[FRAQMD Rule No. 10.3.F.2.k.2 and 40 CFR 70.6 (a)(6)(iv)]

16. Information Requested

Within a reasonable time, the permittee shall furnish any information requested by the FRAQMD Air Pollution Control Officer, in writing, for the purpose of determining:

- a. compliance with the permit
- b. whether or not cause exists for a permit or enforcement action.
- c. Upon request the permittee shall also furnish to the permitting authority copies of records required to be maintained by the permit, or for information claimed to be confidential, the permittee may furnish such records along with a claim for confidentiality.

[FRAQMD Rule No. 10.3.F.2.k.6 and 40 CFR 70.6 (a)(6)(v)]

17. Severability

If any provision, clause, sentence, paragraph, section or part of these conditions for any reason is judged unconstitutional or invalid, such judgment shall not affect or invalidate the remainder of these conditions.

[FRAQMD Rule Nos. 1.2, 4.5 and 10.3.F.2.m, SAC 98-01 §VII]

18. Circumvention

The permittee shall not build, erect, install, or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission which would otherwise constitute a violation of the State of California Health and Safety Code or the FRAQMD Rules and Regulations. This requirement shall not apply to cases in which the only violation involved is State of California Health and Safety Code Section 41700.

[FRAQMD Rule No. 3.13]

19. Emergency Provisions

- a. *Definition:* An "emergency" or means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[FRAQMD Rule No. 10.3.F.2.I and 40 CFR 70.6(g)(1)]

- b. *Effect of an emergency:* An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the reporting requirements of Condition No. III.A.20. of this permit are met.

[40 CFR 70.6(g)(2)]

- c. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:
- i. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - ii. The facility was at the time being properly operated
 - iii. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and;
 - iv. The permittee submitted notice of the emergency to the permitting authority within two working days of the time when emission limitations were exceeded due to the emergency.;
 - v. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[FRAQMD Rule No. 10.3.F.2.I.3 and 40 CFR 70.6(g)(4)]

20. Notification and Reporting of Emergency, Upset, or Breakdown Condition

- a. *Definition:* A upset or breakdown is any unforeseeable failure or malfunction of any air pollution control equipment or operating equipment which causes a violation of any emission standard or limitation prescribed by District, California or federal rules, regulations or laws, where such failure or malfunction:
- i. Is not the result of intent, neglect, or disregard of any air pollution control law, rule or regulation;

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

- ii. Is not the result of improper maintenance;
- iii. Does not constitute a nuisance;
- iv. Is not an excessively recurrent breakdown of the same equipment.
[FRAQMD Rule No. 10.3.F.2.g.1]
- b. The FRAQMD and the U.S. EPA shall be notified within 48 hours of any deviation from permit requirements including those attributable to upset or breakdown conditions. Within fifteen (15) calendar days after an upset or breakdown condition, the permittee shall submit a written report to the FRAQMD, including the following:
 - i. Description of malfunctioning equipment or abnormal operation.
 - ii. The date of initial failure and the date normal operations were resumed.
 - iii. Duration of excess emissions.
 - iv. An estimate of the quantity of excess emissions.
 - v. A statement of the cause of the failure.
 - vi. Methods used to restore normal operations.
[FRAQMD Rule No. 10.3.F.2.g and 40 CFR 70.6(a)(3)(iii)(B)]
- c. In order to establish an affirmative defense for any permit deviation resulting from upset, breakdown, malfunction or other emergency, the permittee, shall submit within fifteen (15) calendar days, contemporaneous operating logs, or other relevant evidence demonstrating that:
 - i. An emergency occurred.
 - ii. The permittee identifies the cause(s) of the emergency.
 - iii. The facility was being properly operated at the time of the emergency.
 - iv. The permittee took all reasonable steps to minimize the emissions resulting from the emergency event.
 - v. In any enforcement proceeding, the permittee has the burden of proof for establishing that an emergency occurred.
[FRAQMD Rule No. 10.3.F.2.I.2 and 40 CFR 70.6(g)(2)]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

21. Monitoring Reports

- a. The permittee shall submit to the FRAQMD Air Pollution Control Officer at least once every six months, unless required more frequently by an applicable requirement, reports of all required monitoring.
 - i. All instances of deviations from Title V permit monitoring conditions must be clearly identified in such reports.
- b. The reporting periods for this permit shall be January 01 through June 30 and July 01 through December 31. The reports shall be submitted by July 31 and January 31 following each reporting period respectively.
- c. All required reports must be certified by the responsible official and shall state that, based on information and belief formed after reasonable inquiry; the statements and information in the document are true, accurate, and complete.
[FRAQMD Rule No. 10.3.F.2.g.2 and 40 CFR 70.6(a)(3)(iii)(A)]

22. Annual Compliance Certification Report

- a. The permittee shall submit to the FRAQMD Air Pollution Control Officer and U.S. EPA (Air-3, U.S. EPA Region 9) every 12 months, a certification of compliance by the responsible official with all terms and conditions contained in the Title V permit, including emission limitations, standards and work practices.
- b. The reporting period for this permit shall be January 01 through December 31. The report shall be submitted by January 30 following the reporting period.
- c. The Compliance Certification Report shall include the following:
 - i. The compliance certification shall include the identification of each term or condition of the permit that is the basis of the certification and the means of determining compliance with the term or condition;
 - ii. The compliance certification shall include the compliance status and method(s) used to determine compliance for the current time period and over the entire reporting period and whether such method(s) provides continuous or intermittent data.
 - iii. The compliance certification shall include any additional inspection, monitoring, or entry requirement that may be promulgated pursuant to Sections 114(a) and 504(b) of the CAA

[FRAQMD Rule No. 10.3.F.2.n and 40 CFR 70.6(b)(5)]

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

23. Responsible Official Shall Certify

Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements, and information in the document are true, accurate, and complete.

[FRAQMD Rule No. 10.3.D.3.a.13 and 40 CFR 70.5(d)]

24. Facility-Wide General Operating Requirements

At all times, including periods of startup, shutdown and malfunction, the permittee shall, to the extent practicable, maintain and operate all equipment, including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

[FRAQMD Rule No. 4.5 and 40 CFR 60.11(d)]

25. Sampling Facilities

a. The permittee shall provide source-testing ports, platforms, and access ladders that conform to the California Air Resources Board and federal Occupational Health and Safety administration standards.

i. Safe sampling platform(s)

ii. Safe access to sampling platform(s)

iii. Utilities for sampling and testing equipment

iv. Sampling ports adequate for test methods applicable to such facility. This includes constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.

[40 CFR 60.8(e)]

26. Visible Emissions

Unless otherwise specified in this permit, the permittee shall not discharge into the atmosphere from any source whatsoever any contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour that is:

a. As dark or darker in shade as that designated as No. 2 (or 40% opacity) on the Ringelmann Chart, as published by the United States Bureau of Mines; or

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

- b. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection (a).

[FRAQMD Rule No. 3.0]

27. Particulate Concentration

Facility shall not emit into the atmosphere from any source particulate matter in excess of 0.3 grains per cubic foot of gas at standard conditions. When the source involves a combustion process, the concentration must be calculated to 12 per cent carbon dioxide (CO₂).

[FRAQMD Rule No. 3.2] [see permit shield]

28. Solvent Degreasing

Any container of solvent which exceeds 55 gallons capacity shall be covered when not in use and shall be labeled with an instruction to store in a closed condition.

[FRAQMD Rule No. 3.14]

29. Architectural Coating

Any coating applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs shall meet the requirements of FRAQMD Rule 3.15.

[FRAQMD Rule No. 3.15 (05-03-1982 SIP approved version)]

30. Accidental Releases

- a. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall register and submit to the EPA the required data related to the risk management plan (RMP) for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities and accident prevention regulations promulgated under 40 CFR Part 68 do not limit in any way the general duty provisions under Section 112(r)(1) of the federal Clean Air Act of 1990.

[40 CFR Part 68]

- b. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall comply with the requirements of 40 CFR Part 68 no later than the latest of the following dates as provided in 68.10(a):

i. June 21, 1999,

ii. Three years after the date on which a regulated substance is first listed under 68.130, or

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

iii. The date on which a regulated substance is first present above a threshold quantity in a process.

[40 CFR Part 68]

c. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.

[40 CFR Part 68]

d. If the permittee is subject to Section 112(r) of the federal Clean Air Act of 1990 and 40 CFR 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) of the federal Clean Air Act of 1990 as part of the required annual compliance certification.

[40 CFR Part 68]

31. Title VI Requirements (Ozone Depleting Substances)

a. The permittee, when opening appliances containing CFCs for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

[40 CFR 82 Subpart F]

b. Equipment used during the maintenance, service, repair, or disposal of appliances containing CFCs must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

[40 CFR 82 Subpart F]

c. The permittee, when performing maintenance, service, repair, or disposal of appliances containing CFCs, must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

[40 CFR 82 Subpart F]

**32. Asbestos Containing Waste Material Active Disposal Site – NESHAP 40
CFR 61 Subpart M**

a. If the landfill accepts asbestos-containing waste materials, the permittee shall comply with the provisions for active disposal sites for asbestos-containing materials as set forth in the asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP), and meet the following operational requirements:

i. Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or at least once every 24-hour period while the site is in

**APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL
(CONTINUED)**

continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall be covered with at least 15 centimeters (6 inches) of compacted nonasbestos-containing material or approved alternative cover.

[40 CFR 61.154(a), c]

- ii. Warning signs must be displayed at all entrances and at intervals of 100 meters (330 ft) or less along the perimeter of the sections of the site where asbestos-containing waste material is deposited.

[40 CFR 61.154(b)(1)]

- iii. The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.

[40 CFR 61.154(b)(2)]

IV. NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL

A. NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL

The conditions in this section are based on conditions contained in previous locally issued operating permits or rules and regulations that are not part of the State Implementation Plan. Pursuant to 40 CFR 70.6(b)(2), the conditions of this section are enforceable by the FRAQMD only and shall not be enforceable by U.S. EPA or any citizen. This section is exempt from compliance certification requirements of 40 CFR 70.6, and administrative requirements for permit issuance and permit review of 40 CFR 70.7 and 70.8.

GENERAL REQUIREMENTS

1. Acceptance of Conditions

Acceptance of this Permit to Operate is deemed acceptance of all conditions as specified. Failure to comply with any condition of this permit or the FRAQMD Rules and Regulations shall be grounds for revocation of this permit

2. Right to Amend Permit

The FRAQMD reserves the right to amend this permit, if the need arises, in order to insure the compliance of this facility, and/or to abate any public nuisance.

3. Permit Not Transferrable

This permit is not transferable from either one location to another, from one piece of equipment to another or from one person to another without prior FRAQMD approval. In the event a new owner assumes the control of this facility, the FRAQMD shall be notified in writing within ten (10) days of the change of ownership.

4. Operation in Accordance with Permit Submittal

Operation of the equipment must be conducted in compliance with all data and specifications submitted with the application under which this permit was issued. If any provision of this permit is found to be invalid, such finding shall not affect the remaining provisions of this permit.

5. Payment of Fees

The permittee shall be responsible for the payment of annual fees. In the event of facility closure, change in ownership or responsibility, the new owner shall be responsible for any outstanding and/or current fees.

6. Right of Entry

The "Right of Entry", as delineated by the California Health and Safety Code Section 41510 of Division 26, shall apply at all times. FRAQMD staff shall be allowed access to the plant site and pertinent records at all reasonable times for the purposes of inspections, surveys, collecting samples, obtaining data,

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

reviewing and copying air contaminant emission records, training, and otherwise conducting all necessary functions related to this permit.

7. Permit Condition Familiarity

Operating staff of this facility shall be advised of and be familiar with all the conditions contained in this permit.

8. Maintain Equipment

The physical integrity of all processes and air pollution control equipment shall be maintained at regular intervals to insure minimal discharge of emissions. The basic equipment shall not be operated without the control equipment attached and operating as designed. Equipment manufacturers' recommendations shall be followed diligently.

9. Permit Required for Additions and Alterations

Any additions, deletions, or alterations of the subject equipment, including a change in the method of operation or a change in the location, shall be reported to the FRAQMD. Such alterations may require a new Authority to Construct permit

10. Copy of Permit Maintained at Facility

Permittee shall maintain a copy of all FRAQMD permits at the facility.

11. Nuisance

Facility shall not emit into the atmosphere from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or which endanger the comfort, repose, health, or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. (California Health and Safety Code Section 41700)

12. Sulfur Oxides

Facility shall not emit into the atmosphere from any single source of emissions whatsoever any sulfur oxides in excess of 0.2 percent by volume (2,000 ppm) collectively calculated as sulfur dioxide (SO₂).

13. Fugitive Dust

Permittee shall take every reasonable precaution not to cause or allow the emissions of fugitive dust from being airborne beyond the property line from which the emission originates, from any construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation. Reasonable precautions shall include, but are not limited to:

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

- a. use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, construction of roadways, or the clearing of land, or
- b. application of asphalt, California approved oils and emulsion substances, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces which can give rise to airborne dusts, or
- c. and other means approved by the Air Pollution Control Officer.

14. Architectural Coatings

- a. Any coating applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs, shall meet the requirements of FRAQMD Rule No. 3.15.
- b. All VOC containing materials shall be stored in closed containers when not in use. In use includes, but is not limited to: being accessed, filled, emptied, maintained, or repaired. (FRAQMD Rule No. 3.15.C.)

15. Air Toxic Hot Spots

- a. This facility is subject to Division 26, Part 6, Chapter 1 Section 44300 of the California Health and Safety Code (Air Toxics “Hot Spots” Information and Assessment Act of 1987). The owner or operator is responsible for complying with all requirements and deadlines set forth in the regulation.
- b. The FRAQMD reserves the right to require the facility to evaluate the health risk, in accordance with the Toxic Hot Spot Emission Inventory Criteria and Guidelines Regulation, if there is a significant change in population, emissions, emission unit(s) site location or new health data becomes available.

16. Portable Sources

- a. The operation of portable equipment at the facility shall not require modification of this permit provided the permittee verifies that the portable source is registered with the California Air Resources Board and that notification of operation is submitted to the FRAQMD.
 - i. This provision shall not apply if the Portable equipment registered with the California Air Resources Board is operated in such a way that supplements the stationary source operation.
- b. Portable equipment registered by the California Air Resources Board shall operate pursuant to the conditions of the registration. Operation of the equipment, such that the operation invalidates the registration shall not be permitted.

NON-FEDERALLY ENFORCEABLE REQUIREMENTS – GENERAL (CONTINUED)

- c. The permittee shall verify that required notifications have been provided to the FRAQMD within 2 days for any portable source that is used more than 24 hours.
- d. If the permittee utilizes or contracts for the use of rented portable equipment the permittee or the unit operator shall comply with the following notification and recordkeeping provisions within 30 days after the end of each calendar quarter:
 - i. The location at which the equipment was operated including the dates at each location.
 - ii. type and quantity of materials processed by each portable unit.
 - iii. The type and quantity of fuel consumed by the portable unit or the daily hours of operation in conjunction with the horsepower rating.

**V. FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM**

A. EQUIPMENT DESCRIPTION:

The information specified under this section is enforceable by the FRAQMD, U.S. EPA, CARB, and the public.

The requirements specified under the following sections apply to the following equipment:

LANDFILL GAS COLLECTION SYSTEM (S-1)

Gas collection pumps

Gas collection wells (Except Wells GP-1S, GP-1D, PEW-1S, PEW-1D, PEW-2S, PEW-2D, PZ-11, PZ-12, VZ-2, PL-1A, & PL-28)

LANDFILL GAS CONTROL SYSTEM (S-2)

Manufacturer: Perennial Energy, Inc

Model No.: GHS-1500-60

Serial No.: GHS-1560

Emission Control: Enclosed Flare

Fuel: Landfill Gas (LFG), Propane (LPG) as supplement

Max. Flow Rate 1500 SCFM at 50% methane

Min. Flow Rate 150 SCFM at 50% methane

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

B. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC:

The requirements specified under this section are enforceable by the FRAQMD, U.S. EPA, CARB, and the public.

EMISSION LIMIT REQUIREMENTS

1. The maximum emission concentrations from the Enclosed Flare (S-2) shall not exceed the following BACT limits.

[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Emission Concentrations
	Enclosed Flare (S-2)
NO _x (as NO ₂)	0.05 lb/MMBtu
CO	0.15 lb/MMBtu

2. The Enclosed Flare (S-2) shall be operated such that the minimum NMOC/ROG destruction efficiency is not less than 98% or the outlet NMOC/ROG concentration does not exceed 20 parts per million as hexane (C₆H₁₄) by volume, dry basis, corrected to 3% oxygen.

[FRAQMD Rule No. 4.5]

3. The maximum daily mass emissions from the Enclosed Flare (S-2) shall not exceed the following limits.

[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Daily Mass Emissions
	Enclosed Flare (S-2)
ROG	10.8 lb/day
NO _x	54.0 lb/day
SO _x	53.9 lb/day
PM ₁₀	36.6 lb/day
CO	162.0 lb/day

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

4. The maximum yearly mass emissions from the Enclosed Flare (S-2) shall not exceed the following limits.

[FRAQMD Rule No. 4.5]

Pollutant	Maximum Allowable Annual Mass Emissions (a)	
	Enclosed Flare (S-2)	
ROG	1.97	tons/year
NO _x	9.86	tons/year
SO _x	9.84	tons/year
PM ₁₀	6.69	tons/year
CO	29.57	tons/year

5. HAP mass emissions from the facility shall not equal or exceed the following limits:

[FRAQMD Rule No. 4.5]

Equipment	Maximum Allowable HAP Emissions (a)	
	Single HAP	Any Combination of HAPs
Enclosed Flare Landfill Gas Collection System Tipping Unit 1 Tipping Unit 2	10 tons/year	25 tons/year

(a) The purpose of this limitation is to qualify the gas turbines for the non-applicability of 40 CFR 63 Subpart YYYY - National Emission Standards for Hazardous Air Pollutants for Stationary Gas Turbines.

EQUIPMENT OPERATION REQUIREMENTS

6. The disposal rate of refuse into the landfill shall not exceed the following:

Year	Maximum Allowable Refuse Disposal Rate	
	tons/day (a)	tons/year
2002 through 2010	1,900	693,500
2011 through 2029	2,700	985,500

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

2030 and after	3,000	1,095,000
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Based on the calculation:
$$\frac{\text{total annual disposal}}{\text{total annual days of waste acceptance}}$$

[FRAQMD Rule No. 4.5]

7. The total volume of refuse in place in the landfill shall not exceed 43,542,000 cubic yards.

[FRAQMD Rule No. 4.5]

8. The permittee shall operate the collection system such that the gas is collected from each area, cell, or group of cells in the MSW landfill in which solid waste has been in place for:
 - a. 5 years or more if active; or
 - b. 2 years or more if closed or at final grade.

[40 CFR 60.753(a)]

9. The permittee shall operate the collection system with negative pressure at each wellhead except under the following conditions.
 - a. A fire or increased well temperature. The owner or operator shall record instances where positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provide in 40 CFR 62.757(f)(1).
 - b. Use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan.
 - c. A decommissioned well. A well may experience a static positive pressure after shut down in order to accommodate declining flows. All design changes shall be approved by the APCO.

[40 CFR 60.753(b)]

10. The permittee shall operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees Celsius and with either a nitrogen level less than 20 percent or an oxygen level less than 5 percent. The permittee may establish a higher operating temperature, nitrogen, or oxygen value at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.
 - a. Wells SUMP-1A, SUMP-2A, CLEANOUT-1A, & CLEANOUT-1B are exempt from the oxygen/nitrogen limitations.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

- b. The nitrogen level shall be determined using Method 3C, unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i).
- c. Unless an alternative test method is established as allowed by 40 CFR 60.752(b)(2)(i), the oxygen shall be determined by an oxygen meter using Method 3A or 3C except that
 - i. The span shall be set so that the regulatory limit is between 20 and 50 percent of the span;
 - ii. A data recorder is not required;
 - iii. Only two calibration gases are required, a zero and a span, and ambient air may be used as the span;
 - iv. A calibration error check is not required;
 - v. The allowable sample bias, zero drift, and calibration drift are ± 10 percent.

[40 CFR 60.753 (c)]

11. The permittee shall operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill. To determine if this level is exceeded, the permittee shall conduct surface testing in accordance with 40 CFR 60.753 (d).

[40 CFR 60.753 (d)]

12. The permittee shall operate the system such that all collected gases are vented to a control system designed and operated in compliance with 40 CFR 60.752(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere shall be closed within 1 hour.

[40 CFR 60.753 (e)]

13. The permittee shall operate the control or treatment system at all times when collected gas is routed to the system.

[40 CFR 60.753 (f)]

14. If monitoring demonstrates that the operational requirements in conditions 9, 10, or 11, above, are not met corrective action shall be taken as specified in 40 CFR 60.755(a)(3) through (5) or 40 CFR 60.755(c). If corrective actions are taken as specified in 40 CFR 60.755, the monitored exceedance is not a violation of the conditions 9 through 13 above.

[40 CFR 60.753 (g)]

15. The Enclosed Flare (S-2) may operate 24 hours per day and 8760 hours per calendar year.

[FRAQMD Rule No. 4.5]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

16. The flow rate of landfill gas to the enclosed flare shall not exceed 1500 standard cubic feet per minute (SCFM) corrected to 50% methane.

[FRAQMD Rule No. 4.5]

17. The enclosed flare shall operate within the following minimum and maximum operating specifications:

Specification	Minimum	Maximum
Landfill Gas inlet flow rate (SCFM)	150	1500
Landfill Gas calorific density (BTU/scf)	250	500
Thermal loading rate (MMBTU/hr)	4.5	45

[FRAQMD Rule No. 4.5]

18. Only propane shall be used as a supplemental fuel, and only used as a pilot for combustion ignition.

[FRAQMD Rule No. 4.5]

19. All emissions control devices shall be maintained according to the vendor's recommendations and good engineering practice.

[FRAQMD Rule No. 4.5]

20. The combustion zone temperature of the Enclosed Flare (S-2) shall be maintained at a minimum of 1400 degrees Fahrenheit (760 degrees Celsius), averaged over any 3-hour period. Alternatively, if the permittee demonstrates, through a source test, compliance with all applicable requirements at a different temperature, the minimum temperature limit shall be set at 50 degrees Fahrenheit (28 degrees Celsius) less than the average combustion temperature during the most recent compliant performance test, as specified in the NSPS. This temperature can change after each subsequent test.

[FRAQMD Rule No. 4.5]

21. The enclosed flare shall be equipped with a failure alarm with automatic blower and associated LFG supply valve shut-off system, as well as an associated air stream gas supply valve shut-off system approved by the FRAQMD. The system shall automatically isolate the Enclosed Flare from the LFG supply line, shut-off the blowers, and immediately notify a responsible facility party of the shutdown.

[FRAQMD Rule No. 4.5]

22. All recording devices shall be synchronized with respect to local time.

[FRAQMD Rule No. 4.5]

23. At any time the enclosed flare is shut down for two (2) or more hours, the permittee shall prevent uncontrolled vapors from venting into the ambient atmosphere.

[FRAQMD Rule No. 4.5]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

MONITORING REQUIREMENTS

24. Each wellhead shall be equipped with a sampling port and thermometer, or other temperature measuring device, or an access port for the temperature measurements at each wellhead, and
- a. Measure the gauge pressure in the gas collection header on a monthly basis as provided in 40 CFR 60.755(a)(3); and
 - b. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provide in 40 CFR 60.755(a)(5); and
 - c. Monitor temperature of the landfill gas on a monthly basis as provided in 40 CFR 60.755(a)(5)

[40 CFR 60.756(a)]

25. The Enclosed Flare shall be equipped with a temperature-monitoring device equipped with a continuous recorder and having a minimum accuracy of ± 1 percent of the temperature being measured, expressed in degrees Celsius or ± 0.5 degrees Celsius, whichever is greater. The temperature monitoring device and recorder shall operate whenever the flare is in operation.

[40 CFR 60.756 (b)(1); FRAQMD Rule No. 4.5]

26. A flow indicating and recording device shall be maintained in the LFG supply to the Enclosed Flare and any bypass device to measure and record the quantity of LFG being processed. The flow indicating and recording device shall record the flow to the control device at least every 15 minutes and shall operate continuously.

[40 CFR 60.756 (b)(2); FRAQMD Rule No. 4.5]

27. The permittee shall demonstrate compliance with the surface methane operational standards of 40 CFR 60.753(d).

[40 CFR 60.756(f)]

EMISSION TESTING REQUIREMENTS

28. The permittee shall conduct performance testing of the Enclosed Flare (S-2) on an annual basis in accordance with the following test methods to verify compliance with permit condition V.B.1. Alternative test methods may be used if approved by the EPA and the APCO.

Pollutant	Test Method
NO _x (as NO ₂)	EPA Method 7E or CARB Method 100
CO	EPA Method 10 or CARB Method 100

[FRAQMD Rule No. 4.5]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

29. The permittee shall conduct performance testing of the Enclosed Flare (S-2) on an annual basis in accordance the following test methods and 40 CFR 754(d) to demonstrate compliance with permit condition V.B.2. Alternative test methods may be used if approved by the EPA and the APCO.

Pollutant	Test Method
NMOC (as hexane, 3% oxygen)	EPA Method 25, 25C, or Method 18 of 40 CFR Appendix A
Oxygen	EPA Method 3 or 3A

[40 CFR 60.752(b)(2)(iii)(B); 40 CFR 60.754(d)]

30. At least 30 days prior to conducting a source test, the permittee shall submit to the FRAQMD Air Pollution Control Officer and EPA (Attn: AIR 5) for their review and approval, a source test plan to allow time for the development of an approvable performance test plan.

[FRAQMD Rule No. 4.5]

31. The permittee shall notify the FRAQMD Air Pollution Control Officer at least 7 days prior to the source testing date.

[FRAQMD Rule No. 4.5]

32. The permittee shall submit the source test results to the FRAQMD Air Pollution Control Officer within 60 days after the completion of the source test(s).

[FRAQMD Rule No. 4.5]

33. The FRAQMD Air Pollution Control Officer may waive annual source testing requirements upon written request and conditioned on an evaluation including but not limited to the maintenance of an adequate compliance margin from prior tests.

[FRAQMD Rule No. 4.5]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

RECORDKEEPING REQUIREMENTS

34. The following records shall be continuously maintained on site for the most recent five-year period and shall be made available to the FRAQMD Air Pollution Control Officer upon request. Yearly records as specified in the table below shall be made available for inspection within 30 days of the end of the reporting period.

[FRAQMD Rule No. 4.5, 40 CFR 60.7 and 40 CFR 70.6(c)(1)]

Frequency	Information to be Recorded
Upon occurrence	a. Occurrence and duration of any <ul style="list-style-type: none"> i. Start-up, shutdown or malfunction in operation of the landfill gas collection system. (S-1) ii. Start-up, shutdown or malfunction of the landfill gas control system (S-2). iii. Periods during which a monitoring device is inoperative. iv. Corrective actions taken. [40 CFR 60.7(b)]
When a source test is performed	b. Records shall be maintained of all monitoring and support information required by any applicable federal requirement, including: <ul style="list-style-type: none"> i. Date, place, and time of sampling. ii. The date(s) analyses were performed. iii. The company or entity that performed the analyses. iv. The analytical techniques or methods used. v. Operating conditions at the time of sampling. vi. Results of the analysis. [FRAQMD Rule No. 4.5 (reflecting FRAQMD Rule No. 10.3.F.2.f) and 40 CFR 70.6(a)(3)(ii)]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

Frequency	Information to be Recorded
When a breakdown occurs	<p>c. In the event of a breakdown, malfunction or other emergency, the permittee shall retain properly signed, contemporaneous operating logs, or other relevant evidence that:</p> <ul style="list-style-type: none"> i. An emergency occurred. ii. The permittee identified the cause(s) of the emergency. iii. The facility was being properly operated at the time of the emergency. iv. The permittee took all reasonable steps to minimize the emissions resulting from the emergency event. <p>[FRAQMD Rule No. 4.5 (reflecting FRAQMD Rule No. 10.3.F.2.I.2.e and 40 CFR 70.6(g)(2))]</p>
Daily	<p>d. Total daily quantity of refuse accepted by the facility. (tons/day) [FRAQMD Rule No. 4.5]</p>
Weekly	<p>e. Cumulative running time of the enclosed flare (S-2). (hours/week) [FRAQMD Rule No. 4.5]</p> <p>f. Minimum, maximum, and average landfill gas flow rate to the enclosed flare (S-2) (SCFM). [FRAQMD Rule No. 4.5]</p>

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
 LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

Frequency	Information to be Recorded
Yearly	<p>g. Cumulative running time of the enclosed flare (S-2). (hours/year) [FRAQMD Rule No. 4.5]</p> <p>h. Total HAP yearly mass emissions and the highest single HAP yearly mass emission from the facility. (tons of HAP/year) [FRAQMD Rule No. 4.5]</p> <p>i. Total annual quantity of refuse disposed of at the facility. (tons/year) [FRAQMD Rule No. 4.5]</p> <p>j. Total volume of refuse in place in the landfill. (cubic yards) [FRAQMD Rule No. 4.5]</p>

REPORTING REQUIREMENTS

35. Except as provided for in 40 CFR 60.752(b)(2)(i)(B), in order to demonstrate compliance with 40 CFR 60 Subpart WWW, the permittee shall prepare and submit on a timely basis all reports required under 40 CFR 60.757, including as applicable, the following:

- a. Initial and/or amended design capacity reports.
- b. Annual and/or 5-Year NMOC emission rate reports.
- c. Landfill gas collection and control system design plan.
- d. Closure report.
- e. Equipment removal report.
- f. Annual reports.
- g. Initial performance test report.

[40 CFR 60.757(a)-(g)]

36. The permittee shall prepare and submit once every six months, all reports required under 40 CFR 60.757(f), including as applicable, the following:

- a. Value and length of time for exceedence of applicable parameters monitored under conditions V.B.24 through V.B.27

[40 CFR 60.757(f)(1)]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

- b. Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of a bypass flow
[40 CFR 60.757(f)(2)]
- c. Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and the length of time the control device was not operating.
[40 CFR 60.757(f)(3)]
- d. All periods when the collection system was not operating in excess of 5 days.
[40 CFR 60.757(f)(4)]
- e. The location of each exceedence of the 500 parts per million methane concentration as provided in condition V.B.11 and the concentration recorded at each location for which an exceedence was recorded in the previous month.
[40 CFR 60.757(f)(5)]
- f. The date of installation and location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), and (c)(4) of 40 CFR 60.755.
[40 CFR 60.757(f)(6)]
[40 CFR 60.757(f), 40 CFR 63.1980(a)]

**40 CFR 63, SUBPART AAAA—NATIONAL EMISSION STANDARDS FOR
HAZARDOUS AIR POLLUTANTS: MUNICIPAL SOLID WASTE LANDFILLS**

- 37. The permittee must develop a written startup, shutdown, and malfunction (SSM) plan according to the provisions in 40 CFR 63.6(e)(3). A copy of the SSM plan must be maintained on site. The SSM plan shall:
 - a. Ensure that, at all times, the permittee operates and maintains the landfill, including associated air pollution control and monitoring equipment, in a manner which satisfies the general duty to minimize emissions.
 - b. Ensure that the permittee is prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and
 - c. Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).**[40 CFR 63.1960, 40 CFR 63.6(e)(3)]**
- 38. If the permittee adds any liquid other than leachate in a controlled fashion to the waste mass and does not comply with the bioreactor requirements of 40 CFR

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
LANDFILL GAS COLLECTION AND CONTROL SYSTEM (CONTINUED)**

63.1947, 63.1955(c) and 63.1980(c) through (f), the permittee must keep a record of calculations showing that the percent moisture by weight expected in the waste mass to which liquid is added is less than 40 percent. The calculation must consider the waste mass, moisture content of the incoming waste, mass of water added to the waste including leachate recirculation and other liquids addition and precipitation, and the mass of water removed through leachate or other water losses. Moisture level sampling or mass balances calculations can be used. You must document the calculations and the basis of any assumptions. Keep the record of the calculations until you cease liquids addition.

[40 CFR 63.1980(g)]

**VI. FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
ASBESTOS CONTAINING WASTE MATERIAL ACTIVE DISPOSAL SITE**

**A. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT
SPECIFIC:**

The requirements specified under this section are enforceable by the FRAQMD, CARB, U.S. EPA and the public.

EQUIPMENT OPERATION REQUIREMENTS– Asbestos Containing Waste (S-3)

1. If the landfill accepts asbestos-containing waste materials, the permittee shall comply with the provisions for active disposal sites for asbestos-containing materials as set forth in the asbestos National Emission Standard for Hazardous Air Pollutants (NESHAP), and meet the following operational requirements:
 - a. Either there must be no visible emissions to the outside air from any active waste disposal site where asbestos-containing waste material has been deposited, or at least once every 24-hour period while the site is in continuous operation, the asbestos-containing waste material that has been deposited at the site during the operating day or previous 24-hour period shall be covered with at least 15 centimeters (6 inches) of compacted non-asbestos containing material or approved alternative cover.
[40 CFR 61.154(a), c]
 - b. Warning signs must be displayed at all entrances and at intervals of 100 meters (330 ft) or less along the perimeter of the sections of the site where asbestos-containing waste material is deposited.
[40 CFR 61.154(b)(1)]
 - c. The perimeter of the disposal site must be fenced in a manner adequate to deter access by the general public.
[40 CFR 61.154(b)(2)]

RECORDKEEPING REQUIREMENTS

2. For all asbestos-containing waste material received, the permittee of the active waste disposal site shall maintain waste shipment records that include the following information:
 - a. The name, address, and telephone number of the waste generator.
 - b. The name, address, and telephone number of the transporter(s).
 - c. The quantity of the asbestos-containing waste material in cubic meters (or cubic yards).
 - d. The presence of improperly enclosed or uncovered waste, or any asbestos-containing waste material not sealed in leak-tight containers.

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
ASBESTOS CONTAINING WASTE MATERIAL ACTIVE DISPOSAL SITE
(CONTINUED)**

- e. The date of the receipt.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(e)(1)(i) - (v)]
3. As soon as possible and no longer than 30 days after receipt of the waste, send a copy of the signed waste shipment record to the waste generator.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(e)(2)]
4. Upon discovering a discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received, attempt to reconcile the discrepancy with the waste generator. If the discrepancy is not resolved within 15 days after receiving the waste, immediately report in writing to the local, State or U.S. EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record).
[Rule 10.3.F.2.f.3; 40 CFR 61.154(e)(3)]
5. Retain copies of all records and reports for Conditions 1 through 4 of this section.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(e)(4)]
6. Maintain, until closure, records of the location, depth and area and quantity in cubic meters (or cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area storage.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(f)]
7. Upon closure, comply with all of the provisions of 40 CFR 61.151.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(g)]
8. The permittee shall submit to the Air Pollution Control Officer, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(h)]
9. The permittee shall furnish upon request, and make available during normal business hours for inspection by the Air Pollution Control Officer, all records required under this section.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(i)]

**FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
ASBESTOS CONTAINING WASTE MATERIAL ACTIVE DISPOSAL SITE
(CONTINUED)**

REPORTING REQUIREMENTS

10. Notify the Air Pollution Control Officer in writing at least 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and is covered. If the excavation will begin on a date other than the one contained in the original notice, notice of the new start date must be provided to the Air Pollution Control Officer at least 10 working days before excavation begins and in no event shall excavation begin earlier than the date specified in the original notification. Include the following information in the notice:
 - a. Scheduled starting and completion dates.
 - b. Reason for disturbing the waste.
 - c. Procedures to be used to control emissions during the excavation, storage, transport and ultimate disposal of the excavated asbestos-containing waste material. If deemed necessary, the Administrator may require changes in the emission control procedures to be used.
 - d. Location of any temporary storage site and the final disposal site.
[40 CFR 61.154(j)(1) – (4)]
11. Report in writing and by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste received by the facility. The report shall be submitted to the local, State, or U.S. EPA Regional office responsible for administering the asbestos NESHAP program for the waste generator (identified in the waste shipment record), and, if different, the local, State, or U.S. EPA Regional office responsible for administering the asbestos NESHAP program for the disposal site. Submit a copy of the waste shipment record along with the report.
[Rule 10.3.F.2.f.3; 40 CFR 61.154(e)(1)(i) - (v)]

**VII. FEDERALLY ENFORCEABLE REQUIREMENTS – EQUIPMENT SPECIFIC
UNPAVED (S-4) AND PAVED (S-5) ROADS AND STORAGE AND USE OF DAILY
COVER (S-6)**

**A. APPLICABLE FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT
SPECIFIC:**

The requirements specified under this section are enforceable by the FRAQMD, CARB, U.S. EPA, and the public.

OPERATIONAL REQUIREMENTS

1. Unless otherwise specified in this permit, the permittee shall not discharge into the atmosphere from any source whatsoever any contaminant, other than uncombined water vapor, for a period or periods aggregating more than three (3) minutes in any one (1) hour which is:
 - a. As dark or darker in shade as that designated as No. 2 (or 40% opacity) on the Ringelmann Chart, as published by the United States Bureau of Mines; or
 - b. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection (a).

[FRAQMD Rule No. 3.0, CH&SC 41701]

2. The permittee shall conduct an annual inspection for visible emissions in accordance with U.S. EPA Method 9. An observer, certified for U.S. EPA Method 9, must conduct the inspection during typical operational and environmental conditions. Where the observer notes visible emissions in violation of FRAQMD Rule 3.0, the facility shall implement corrective measures to reduce the visible emissions below the regulatory thresholds.

[CARB Periodic Monitoring Recommendations for Generally Applicable Requirements in SIP]

3. The permittee shall take reasonable precautions not to cause or allow emissions of fugitive dust beyond the property line from any construction, handling or storage activity, or any wrecking, excavation, grading, clearing of land or solid waste disposal operation.

[FRAQMD Rule No. 3.16.C]

4. In order to verify that visible emissions do not cross the property boundary, the permittee shall make at least one monthly observation using U.S. EPA Method 22. Where the observer notes fugitive dust emissions beyond the property line, the facility shall implement corrective measures to reduce the fugitive dust emissions below the regulatory thresholds.

[FRAQMD Rule No. 4.5]

5. The facility shall maintain the records of the observer's results of all annual visible emissions inspections for five years.

[FRAQMD Rule No. 4.5]

**NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
IC ENGINE TIPPING UNIT #01090; IC ENGINE TIPPING UNIT \$01417
IC ENGINE COMPRESSOR UNIT #51387 (CONTINUED)**

**VIII. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT
SPECIFIC
IC ENGINE TIPPING UNIT #01090; IC ENGINE TIPPING UNIT \$01417
IC ENGINE COMPRESSOR UNIT #51387**

A. NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC

The requirements specified under this section are enforceable by the FRAQMD only.

EQUIPMENT DESCRIPTION

Portable trailer tipping unit #01090 including IC Engine (S-7)

IC Engine
Manufacturer: CATERPILLAR/PERKINS
Model No.: Model C4.4
EPA Family Number APKXL04.4NJ1, Tier 3
Serial No.: 44407695
PM Emission Rate: 0.16 g/bhp-hr
Fuel: Diesel
Max. Horsepower 127 @ 2200 RPM

Portable trailer tipping unit #01417 including IC Engine (S-8)

IC Engine
Manufacturer: CATERPILLAR/PERKINS
Model No.: Model C4.4
EPA Family Number 8PKXL04.4NJ1, Tier 3
Serial No.: 44403501
PM Emission Rate: 0.13 g/bhp-hr
Fuel: Diesel
Max. Horsepower 127 @ 2200 RPM

Compressor unit #51387 including IC Engine (S-9)

IC Engine
Manufacturer: YANMAR
Model No.: Model 4IRI8N
EPA Family Number 5YDXL3.32K4N, Tier 2
Serial No.: 44403501
PM Emission Rate: 0.13 g/bhp-hr
Fuel: Diesel
Max. Horsepower 52.1kW (69.9 bhp)

**NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
IC ENGINE TIPPING UNIT #01090; IC ENGINE TIPPING UNIT \$01417
IC ENGINE COMPRESSOR UNIT #51387 (CONTINUED)**

EQUIPMENT OPERATION REQUIREMENTS

1. Operation of each CATERPILLAR CI Engine shall not exceed 2278 hours per calendar year.
2. Operation of the YANMAR CI engine shall not exceed 500 hours per calendar year.
3. The facility shall not operate either CI engine in one location for more than 12 consecutive months.
4. The facility shall fire each CI engine exclusively with CARB diesel fuel.
5. Each CI engine shall be equipped with a non-resettable hour meter that measures cumulative hours of operation.
6. Each engine shall comply with the Airborne Toxic Control Measure (ATCM) For Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower and Greater (California Code of Regulations, Title 17, Section 93116).
7. The permittee's fleet of portable engines shall meet the following PM emission standard of:
0.30 g/bhp-hr by 1/1/2013
0.18 g/bhp-hr by 1/1/2017, and
0.04 g/bhp-hr by 1/1/2020.

RECORDKEEPING REQUIREMENTS

8. The facility shall continuously maintain the following records on site for the most recent five-year period and shall make them available to the FRAQMD Air Pollution Control Officer upon request.

[FRAQMD Rule No. 4.5]

Frequency	Information to be Recorded
Upon Occurrence	<ol style="list-style-type: none">a. Type of fuel used for the engine through retention of fuel purchase records.b. Date and explanation of maintenance procedures performed on the engine.
Daily	<ol style="list-style-type: none">c. Hours of operation including date, hour meter reading and total daily hours of operation. (hours/day)

**NON-FEDERALLY ENFORCEABLE REQUIREMENTS - EQUIPMENT SPECIFIC
 IC ENGINE TIPPING UNIT #01090; IC ENGINE TIPPING UNIT \$01417
 IC ENGINE COMPRESSOR UNIT #51387 (CONTINUED)**

Frequency	Information to be Recorded
Upon Occurrence	a. Type of fuel used for the engine through retention of fuel purchase records. b. Date and explanation of maintenance procedures performed on the engine.
Yearly	d. Yearly hours of operation for each engine. (hours/year)

REPORTING REQUIREMENTS

9. For each calendar year submit to the FRAQMD Air Pollution Control Officer a written report which contains the following information.

[FRAQMD Rule No. 4.5]

Frequency	Information to be Reported
Yearly	a. Yearly hours of operation for each engine. (hours/year)

10. The facility shall submit to the Executive Officer of the California Air Resources Board (CARB) or his/her designee by March 1, 2011, a status report of the items listed in the ATCM for Diesel Particulate Matter From Portable Engines Rated At 50 Horsepower and Greater, under section 93116.4(e).

IX. INSIGNIFICANT EMISSION UNITS

Insignificant emissions units or exempted equipment may be supplemented, replaced, or modified with identical or non-identical equipment without notice provided the exemption status has not changed as defined in current FRAQMD or federal rules.

Source ID	Description	Capacity	Basis of Exemption
E-1	Mobile Equipment (nonroad vehicles) ¹		Rule 4.3 a. and g.
E-2	Mobile Equipment (road vehicle)		Rule 4.3 a.
E-3	HVAC equipment		Rule 4.3 d. and e.
E-4	Solvent degreasing (tool cleaning, maintenance shop)	Less than 55 gallons	Rule 3.14
E-5	Leachate collection and storage system		Rule 4.3 h.
E-6	Gasoline storage	Less than 250 gallons	Rule 3.8 and Rule 4.3 h.
E-7	Storage of Petroleum Products	Less than 39,630 gallons	Rule 3.9 and Rule 4.3 h.
E-8	Gasoline and Diesel Fuel Dispensing	Less than 25,000 gallons per month	Rule 3.8 b.1.d)
E-9	Diesel-Powered Emergency Generators	Less than 50 bhp	Rule 4.3 h.
E-10	Gasoline-Powered Surface Water Pumps	Less than 50 bhp	Rule 4.3 h.
E-11	Gasoline-Powered Leachate Pumps	Less than 50 bhp	Rule 4.3 h.
E-12	Passenger Vehicles		Rule 4.3 a. and b.
E-13	Painting of Logos, Letters, etc.		Rule 3.19. 4. D4.
E-14	Touch-Up and Repair Painting and Painting of Construction Vehicles Outside of Paint Booths		Rule 3.19. 4. D6. 5. and 8.

1 Long term measures off road industrial equipment emission standards, California SIP at 40 CFR 52.20(c)(204)(i)(A)(4) may impose future conditions on this equipment. The equipment shall comply with the SIP requirements for replacement or engine remanufacturing upon the effective date. Requirements for non-road engines are not applicable under Title V.

X. ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE

Acronyms, abbreviations and units of measure used in this permit are defined as follows:

ASTM

American Society for Testing and Materials

CAA

The federal Clean Air Act.

CARB

California Air Resources Board.

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.

CO

Carbon monoxide.

CO₂

Carbon dioxide.

FRAQMD

Feather River Air Quality Management District.

Federally Enforceable

All limitations and conditions which are enforceable by the Administrator of the U.S. 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 (HAP) and Part 72 (Permits Regulation, Acid Rain) including limitations and conditions contained in operating permits issued under a U.S. EPA approved program that has been incorporated into the California SIP.

HAP

Hazardous Air Pollutant – Any air pollutant listed in or pursuant to Section 112(b) of the CAA.

NESHAP

National Emission Standards for Hazardous Air Pollutants (see 40 CFR Parts 61 and 63).

NO_x

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE (CONTINUED)

Nitrogen oxides.

NSPS

New Source Performance Standards. U.S. EPA 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.

O2

Oxygen.

PM

Particulate matter.

PM10

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

ROG

Reactive organic gas.

SIP

State Implementation Plan. CARB and FRAQMD programs and regulations approved by U.S. EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the federal Clean Air Act.

SO2

Sulfur dioxide.

Title V

Title V of the federal Clean Air Act. Title V requires the FRAQMD to operate a federally enforceable operating permit program for major stationary sources and other specified sources.

U.S. EPA

The federal Environmental Protection Agency.

VOC

Volatile Organic Compounds.

UNITS OF MEASURE:

bhp = Brake horsepower
BTU = British Thermal Unit
cfm = cubic feet per minute
g = grams
gal = gallon

ACRONYMS, ABBREVIATIONS AND UNITS OF MEASURE (CONTINUED)

gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inch
kg	=	kilogram
max	=	maximum
m ²	=	square meter
min	=	minute
mm	=	millimeter
MM	=	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
quarter	=	calendar quarter
scfm	=	standard cubic feet per minute
yr	=	year