
San Diego County Air Pollution Control District

10124 Old Grove Rd
San Diego, CA 92131-1649
(858) 586-2600

**TITLE V OPERATING PERMIT
APCD2002-TVP-961006**

Issued To:

City of San Diego Environmental Services Department
Site IDs # APCD1989-SITE-07515, APCD1996-SITE-09779

Site Address:

5180 Convoy Street
San Diego, CA 92111
(858) 627-3321

Mailing Address:

9601 Ridgeway Court, Ste 310
San Diego, CA 92123

Responsible Official – James Hay, Deputy Director, Environmental Services

Dept. **Facility Contact** – Luis Campos, Senior Engineer

Permit Information Contact – Luis Campos, Senior Engineer

Issued by the San Diego County Air Pollution Control District on _____.

This Title V Operating Permit expires on _____.

Signed by: _____

Mohsen Nazemi, MS, PE.
Chief, Engineering Division
San Diego County Air Pollution Control District

_____ Date

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PREAMBLE

This Title V Operating Permit consists of this document and all appendices, including District permits incorporated by reference. The facility is subject to all applicable requirements identified within this permit, unless a specific permit shield is specified within this permit. If an applicable requirement is omitted from this permit, the facility is still obligated to comply with such an applicable requirement. The permittee must comply with all of the terms listed in each section of this permit.

This permit contains five major sections: Section I contains the Regulation XIV requirements required to carry out the Title V Operating Permit program. Section II contains the requirements that are applicable to the facility on a facility-wide basis. Section III contains the requirements that are applicable to individual emission units which have been issued District permits or District registration, or which have been determined to be insignificant emission units. Section IV contains terms and requirements pertaining to variance procedures and compliance schedules, if applicable to the facility. Section V contains three appendices. Appendix A contains all the District permits incorporated within this permit. Appendix B contains a table of all SIP approved and District approved rules. Appendix C contains a list of abbreviations used within this permit.

Copies of the Rules and Regulations of the Air Pollution Control District of San Diego County and the Rules and Regulations for San Diego County contained in the State Implementation Plan (SIP) approved by EPA may be obtained at the District. Copies are also available for review at the following locations:

SD Air Pollution Control District
10124 Old Grove Rd
San Diego, CA 92131-1649
(858) 586-2600

The current Rules and Regulations of the Air Pollution Control District of San Diego County may also be viewed and downloaded using the following internet address:

<https://www.sdapcd.org/content/sdapcd/rules.html>

The following addresses should be used to submit any certifications, reports or other information required by this permit:

SD Air Pollution Control District
Compliance Division
10124 Old Grove Rd
San Diego, CA 92131-1649

USEPA Region IX
ECAD Attn: ENF 2-1
75 Hawthorne Street
San Francisco, CA 94105

SECTION I. REGULATION XIV PERMIT REQUIREMENTS

A. ADMINISTRATIVE PERMIT TERMS

1. This Title V Operating Permit expires 5 years from date of issuance. [Rule 1410]
2. Commencing or continuing operation under this permit to operate shall be deemed acceptance of all terms and conditions specified within this permit. This does not limit the right of the applicant to seek judicial review or seek federal EPA review of a permit term or condition. [Rule 1421]
3. This permit may be modified, revoked, reopened and reissued, or terminated by the District for cause. [Rule 1421]
4. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay the applicability of any permit condition. [Rule 1421]
5. This permit does not convey any property rights of any sort, or any exclusive privilege. [Rule 1421]
6. The need for the permittee to halt or reduce a permitted activity in order to maintain compliance with any term or condition of this permit shall not be a defense for any enforcement action brought as a result of a violation of any such term or condition. [Rule 1421]
7. In the event of challenge to any portion of this permit, the rest of the permit remains valid. [Rule 1421]
8. For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any applicable requirement in this permit, nothing in this permit shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed. [Rule 1421]

B. RENEWAL REQUIREMENTS AND TERMS

1. The permittee shall submit a complete application for renewal of this permit to the Air Pollution Control Officer at least 12 months, but not more than 18 months, prior to permit expiration. [Rule 1410]
2. If an administratively complete application for renewal of this permit has been submitted to the Air Pollution Control Officer within the timeframe specified in Section I.B.1. , the terms and conditions of this permit shall remain in effect and the source may continue operations under these terms and conditions until the Air Pollution Control Officer issues or denies the permit renewal. [Rule 1410]

C. MONITORING, RECORDKEEPING & REPORTING REQUIREMENTS

1. The permittee shall provide the District access to the facility and all equipment subject to this permit, and access to all required records pursuant to California Health and Safety Code Section 41510. [Rule 1421]

2. The permittee shall maintain all records required by this permit including any calibration, maintenance, and other supporting information and copies of all reports required by this permit for at least five (5) years from their date of creation. Such records shall be maintained on-site for a minimum of three years. This requirement controls and supersedes any other record retention requirement under this permit as it pertains to, and is required by, District Rule 1421 and Title V of the Clean Air Act. [Rule 1421]
3. Records required by this permit shall be considered as being maintained "on-site" if records for the previous 12-month period are available at the stationary source and any additional records are maintained at a location to be specified by the source and made readily available to the District upon request. [Rule 21]
4. The permittee shall submit monitoring and recordkeeping summary reports and all other monitoring and recordkeeping reports required by this permit to the District every six months, unless a shorter time frame is required by a specific permit condition contained in Section III of this permit. Unless other dates are specified in Section III, reports for data required to be collected from January 1 through June 30, shall be submitted no later than September 1 of the calendar year, and reports for data required to be collected from July 1 through December 31, shall be submitted no later than March 1 of the following calendar year. The report for the final six months of the year may be consolidated with the annual compliance certification required below. All instances of noncompliance from federally enforceable applicable requirements shall be clearly identified in these reports. (Timely completion of District Certification Reports Form 1401-J1 and Form 1401-J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
5. Each calendar year, the permittee shall submit to the District and to the federal EPA an annual compliance certification, in a manner and form approved in writing by the District, for the previous calendar year that includes the identification of each applicable term or condition of the final permit for which the compliance status is being certified, the compliance status and whether the facility was in continuous or intermittent compliance during the previous calendar year, identification of the method used to determine compliance during the previous calendar year, and any other information required by the District to determine the compliance status. The annual compliance certification for a calendar year shall be submitted no later than March 1 of the following calendar year and may be consolidated with the monitoring and recordkeeping report for the last six months of the year for which compliance is certified. (Timely completion of District Certification Reports Form 1401-J1 and Form 1401-J2, if applicable, and all indicated attachments, fulfills the requirements of this condition.) [Rule 1421]
6. Any report submitted to the District or federal EPA pursuant to this permit to comply with a federally enforceable applicable requirement, shall be certified by a responsible official stating that, based on information and belief formed after reasonable inquiry, the report is true, accurate and complete. [Rule 1421]

7. The permittee shall make any trade secret designations of records, documents, or other information submitted to the District or federal EPA in accordance with District Rule 176. [Rule 176]
8. The permittee shall report all deviations from any and all federally enforceable permit terms and conditions including: (a) breakdowns, whether or not they result in excess emissions, (b) deviations that result in excess emissions of any regulated air pollutant, and (c) deviations from monitoring, recordkeeping, reporting and other administrative requirements that do not result in excess emissions. For deviations that result from breakdowns under District Rule 98, the permittee shall report the deviation and breakdown within two hours of detection of the breakdown and provide a follow-up written report after corrective actions have been taken. For deviations not due to a breakdown but which result in excess emissions, the permittee shall report the deviation within ten calendar days of detection. For all other deviations where no specific time frame for reporting a deviation applies, the permittee shall report the deviation at the time of the next semi-annual monitoring summary or annual compliance certification, whichever occurs first. If an underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, then the criteria for the applicable requirement shall apply. The report must include the probable cause of such deviations and any corrective actions or preventive measures taken. [Rule 1421]

D. GENERAL PERMIT REQUIREMENTS

1. The permittee shall comply with all terms and conditions of this permit. This permit consists of this document and Appendices A, B and C. Any noncompliance with the federally applicable terms and conditions of this permit shall constitute a violation of the federal Clean Air Act. Noncompliance with any federally applicable permit term or condition of this permit is grounds for federal enforcement action or enforcement action by the District; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. Noncompliance with any District permit term or condition is grounds for enforcement action by the District. [Rule 1421]
2. Upon a written request by the District, the permittee shall furnish to the District any information needed to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit; any information required to determine compliance with this permit; or any records required to be maintained pursuant to this permit. Such information shall be provided within a reasonable time, as specified within the District's written request. [Rule 1421]
3. The permittee shall pay annual fees in accordance with District Rule 40. [Rule 1421]
4. The permittee shall provide access, facilities, utilities and any necessary safety equipment for source testing and inspection upon request from the District. [Rule 19]
5. This permit shall be maintained on-site at all times and be made available to the District upon request. [Rule 1410]
6. The Rule Reference Table provided in Appendix B shall be used to determine whether a cited rule is a federally and District enforceable requirement or a District only enforceable requirement. Any new or revised District rule shall not be considered

federally enforceable until the rule is approved by EPA into the SIP. In cases where SIP approval is pending for a revised District rule, the rule citation shall refer to both the current SIP approved rule and the revised District rule. [Rule 1421]

SECTION II. FACILITY-WIDE REQUIREMENTS

A. GENERAL PERMIT PROGRAM APPLICABLE REQUIREMENTS

The permittee shall comply with the applicable requirements specified in the Rules and Regulations cited below, unless specifically exempted by the same Rule or Regulation.

Regulation	Rule Citation	Title
SDCAPCD Reg. II	10(a)	Permits Required - (a) Authority to Construct
SDCAPCD Reg. II	10(b)	Permits Required- (b) Permit to Operate
SDCAPCD Reg. II	19	Provision of Sampling & Testing Facilities
SDCAPCD Reg. II	19.3	Emission Information
SDCAPCD Reg. II	20.1-20.4	New Source Review
SDCAPCD Reg. II	21	Permit Conditions
SDCAPCD Reg. II	25	Appeals
SDCAPCD Reg. IV	59	Control of Waste Disposal – Site Emissions
SDCAPCD Reg. IV	60	Circumvention
SDCAPCD Reg. IV	67	Architectural Coatings
SDCAPCD Reg. IV	68	Fuel Burning Equipment - NOx
SDCAPCD Reg. IV	71	Abrasive Blasting
SDCAPCD Reg. V	98*	Breakdown Conditions: Emergency Variance
SDCAPCD Reg. VI	101	Burning Control
SDCAPCD Reg. VIII	131	Stationary Source Curtailment Plan
SDCAPCD Reg. VIII	132	Traffic Abatement Plan

**Breakdowns/variances are not recognized by EPA and cannot grant relief from federal enforcement of requirements.*

B. GENERAL PROHIBITORY REQUIREMENTS

The permittee shall comply with the generally applicable requirements specified in the Rules and Regulations cited below, unless specifically exempted by the same Rule or Regulation. These generally applicable requirements apply on a facility-wide basis to all permitted equipment, registered equipment, and insignificant activities. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more permitted emission units, the requirement is also included in Section III.A. of this permit.

Regulation	Rule Citation	Title
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City of San Diego, Miramar Landfill
Title V Permit APCD2002-TVP-961006

SDCAPCD Reg. II	19.2	Continuous Emission Monitoring Systems
SDCAPCD Reg. IV	50	Visible Emissions
SDCAPCD Reg. IV	51	Nuisance
SDCAPCD Reg. IV	52	Particulate Matter
SDCAPCD Reg. IV	53	Specific Contaminants
SDCAPCD Reg. IV	59.1	Municipal Solid Waste Landfills
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	67.0.1	Architectural Coatings
SDCAPCD Reg. IV	67.17	Storage of Organic Materials Containing VOC
SDCAPCD Reg. XII	1200**	Toxic Air Contaminants – New Source Review
SDCAPCD Reg. XII	1210	Toxic Air Contaminants – Public Notification and Risk Reduction
SDCAPCD Reg. XII	1206***	Asbestos Removal, Renovation, and Demolition
40 CFR Part 60	Subpart A	NSPS General Provisions
40 CFR Part 60	Subpart XXX	NSPS - Standards of Performance for Municipal Solid Waste Landfills that Commenced Construction, Reconstruction, or Modification after July 17, 2014
40 CFR Part 61	Subpart M***	NESHAP - Asbestos
40 CFR Part 63	Subpart A	NESHAP - General Provisions
40 CFR Part 63	Subpart AAAA	NESHAP - Municipal Solid Waste Landfills

**Rule 98 and variances are not federally enforceable and cannot provide relief from requirements under Title V*

***Toxics NSR Rules which are not federally enforceable*

**** The District issued its own Asbestos Rule 1206 intended to be as stringent as Subpart M. The facility is subject to the most stringent requirements of either rule, which at the time of this report is ensured by compliance with Rule 1206.*

C. PERMIT SHIELDS

1. The applicant has not requested any permit shields.

D. ADDITIONAL TERMS

1. Any emission unit described in this Title V operating permit as being fired on natural gas, shall only use Public Utility Commission (PUC)-quality natural gas, unless the emission unit permit specifies otherwise. [Rules 53, 62]
2. The permittee shall comply with all applicable requirements, including but not limited to, those applicable requirements of 40 CFR Parts 60 and 63.

SECTION III. EMISSION UNIT REQUIREMENTS

A. DISTRICT PERMITTED EMISSION UNITS

Facility Emission Units (EU) are listed below and attached in Appendix A, including all terms and conditions of such permits, and comprise the emission unit portion of this Title V Operating Permit.

B. REGISTERED AND LEASED EMISSION UNITS

The permittee shall comply with the source specific applicable requirements specified in the Rules and Regulations cited below for all registered emission units, unless specifically exempted by the same Rule or Regulations.

Regulation	Rule Citation	Title
SDCAPCD Reg. IV	50	Visible Emissions
SDCAPCD Reg. IV	51	Nuisance
SDCAPCD Reg. IV	62	Sulfur Content of Fuels
SDCAPCD Reg. IV	69.4.1	Stationary Reciprocating Internal Combustion Engines

C. INSIGNIFICANT EMISSION UNITS AND ACTIVITIES

The permittee shall comply with the applicable requirements specified in the District Rules and Regulations for any Insignificant Units located at this facility that are listed at District Regulation XIV, Appendix-A.

SECTION IV. DISTRICT-ONLY PROVISIONS

VARIANCE PROCEDURES

The permittee may seek relief from District enforcement action from District-only provisions in the event of a breakdown in accordance with District Rule 98. Notwithstanding the foregoing, the granting by the District of breakdown relief or the issuance by the Hearing Board of a variance does not provide relief from federal enforcement or citizen's suits. [Rule 98]

SECTION V. APPENDICES

APPENDIX A: EMISSION UNITS – SPECIFIC CONDITIONS

EU Reference	Source
APCD2006-PTO-984491	Emergency Standby Engine
APCD2007-PTO-950804	Landfill Gas Flares
APCD2008-PTO-930483	Inactive Landfill Operation
APCD2008-PTO-971254	Active Landfill Operation
APCD2013-PTO-001898	Prime Diesel Engine
APCD2014-PTO-001913	Prime Diesel Engine
APCD2015-PTO-002461	Prime Diesel Engine
APCD2019-PTO-003354	Prime Diesel Engine
APCD2024-PTO-004825	Prime Diesel Engine
APCD2025-PTO-005260	Prime Diesel Engine



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Sectors: 4, M
Site ID: APCD1996-SITE-09779
App ID: APCD Condition Update

PERMIT ID
APCD2006-PTO-984491


City of San Diego Environmental Service
 Luis Campos
 9601 Ridgehaven Court Suite 310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego Environmental
 OM&M Superintendent Joe
 5180 Convoy Street
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

City of San Diego Environmental Services Dept Alex Garcia 9601 Ridgehaven Court Ste 310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

EMERGENCY STANDBY ENGINE: CATERPILLAR DIESEL ENGINE, MODEL 3406CDITA, S/N 1LS01267, RATED AT 587 BHP, MODEL YEAR 2000, TURBOCHARGED, AFTERCOOLED, DRIVING A GENERATOR.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34W] Registered Engine (Rule 12)
 BEC: APCD2020-CON-001702

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

3. Engine operation for maintenance and testing purposes shall not exceed 30 hours per calendar year. (17 CCR 93115, Rule 1200, NSR)
4. This engine shall only use CARB diesel fuel. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)
5. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
6. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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9. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
 - (a) old meter's hour reading,
 - (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and
 - (c) copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
10. The owner or operator of this engine shall install, configure, operate, and maintain this engine and control device, if any, according to the manufacturer's emission-related written instructions. The owner or operator may change only those emission-related settings that are permitted by the manufacturer. The periodic maintenance shall be conducted at least once each calendar year. (Rule 12, Rule 69.4.1, 40 CFR 60 Subpart IIII)
11. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
(Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)
12. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - (a) documentation shall be maintained identifying the fuel as CARB diesel, and
 - (b) manual of recommended maintenance provided by the manufacturer.(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)



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13. The owner or operator of this engine shall maintain a monthly operating log containing, at a minimum, the following:
 - (a) dates and elapsed times of every instance of engine operation based on actual readings of the engine hour meter; whether the operation was for maintenance and testing purposes or emergency use; and the nature of the emergency;
 - (b) if located within 500 feet of a school, the time of day of every instance of engine operation for testing and maintenance, unless the engine emits no more than 0.01 g/bhp-hr of diesel particulate matter or meets the requirements specified in 17CCR, Section 93115.13(f);
 - (c) for a total external power outage, documentation from the serving utility of an outage in the area where the engine is located; for an internal power outage, a description of what caused the failure and receipts and/or work orders for the necessary repairs; for a partial external power outage, including a low-voltage or electrical transient incident in which the external power voltage is low enough to trigger the operation of an emergency standby engine, a description of the incident;
 - (d) total cumulative hours of operation per calendar year;
 - (e) records of annual engine maintenance shall include the date the maintenance was performed and the nature of the maintenance; and
 - (f) hours of operation for all uses other than those specified above and identification of the nature of that use. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
14. All records required by this permit shall be maintained on site and readily available for District inspection for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. (Rule 12, Rule 69.4.1, 40 CFR 60 Subpart IIII)
15. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

1. The engine shall be operated exclusively during emergencies as defined in Rule 69.4.1 or Rule 12 or 17CCR93115 as applicable, or for maintenance and testing.
2. This engine shall not be used as a part of a non-emergency Demand Response Program (DRP). This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)
7. This engine shall not operate for non-emergency use during the following periods, as applicable:
 - (a) whenever there is any school sponsored activity, if engine is located on school grounds or
 - (b) between 7:30am and 3:30pm on days when school is in session, if the engine is located within 500 feet of, but not on, school grounds.
 This condition shall not apply to an engine located at or near any school grounds that also serve as the students' place of residence. (17 CCR 93115)
8. Engine operation in response to notification of an impending rotating outage shall be subject to all the following restrictions:
 - (a) the utility distribution company has ordered rotating outages in the control area where the engine is located,
 - (b) the engine is operated no more than 30 minutes prior to the time when the utility distribution company officially forecasts a rotating outage in the cited control area, and
 - (c) the engine operation is terminated immediately after the utility distribution company advises that a rotating outage is no longer in effect.
 This condition shall not apply to engines operating pursuant to the rolling blackout reduction program as defined in 17 CCR 93115 and operating in accordance with 17 CCR 93115.6(c). (17 CCR 93115)
16. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
17. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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City of San Diego Environmental Service
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 9601 Ridgehaven Court Suite 310
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EQUIPMENT ADDRESS
 City of San Diego Environmental
 SCS Project Mgr Joe Santos
 5180 Convoy Street
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

City of San Diego Environmental Services Dept Alex Garcia 9601 Ridgehaven Court Ste 310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

A landfill gas combustion system consisting of two enclosed ground flares (approximately 11 ft diameter and 38 ft height), each equipped with an optical flame detector, automatic shutoff valve, stack thermocouples, flame arrestor, and exhaust gas sampling ports. Flare A – Manufacturer: John Zink; Model: ZTOF; S/N: 901592701; Rated Heat Input Capacity: 91.08 MMBTU/hr; Gas Throughput Capacity: 3,000 SCFM. Flare B – Manufacturer: John Zink; Model: ZTOF; S/N: 901592701; Rated Heat Input Capacity: 91.08 MMBTU/hr; Gas Throughput Capacity: 3,000 SCFM. The flare station control and monitoring system shall include, at a minimum, an in-line gas oxygen analyzer, a landfill gas flow meter, an exhaust gas stack temperature recorder, and a supplemental fuel supply. (950804-CCN-12/97) (APCD2011-APP-001687 DB 7/2011)

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

- Fee Schedules: 1 [93A] Test Witness and Report Review (T&M)
 1 [48C] Waste Disposal Site/Landfill
 1 [48C] Waste Disposal Site/Landfill

BEC: APCD2015-CON-001009

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

- The permittee is subject to and shall comply with the applicable requirements of District Rules 53 and 59, and 40 CFR 60 Subpart XXX and 40 CFR 63 Subpart AAAA. These requirements include, but may not be limited to, the related conditions of this permit. [Rules 53 and 59; 40 CFR 60 Subpart XXX and 40 CFR 63 Subpart AAAA]



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2. The collected landfill gas temperature shall be maintained at less than 62.8° C at each well, unless the administrator or District has approved an alternative higher operating temperature value for any particular well, in which case the landfill gas temperature shall comply with the approved alternative. A higher operating value demonstration must be submitted to the District for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable). [40 CFR 63.1958(c)(1)]
3. Each temperature gauge used for measurement of landfill gas temperature shall be calibrated annually in accordance with the procedure in section 10.3 of EPA Method 2 of appendix A-1 of 40 CFR Part 60. Temperature gauge maintenance and calibration records shall be maintained for at least five years and made available to the District upon request. [40 CFR 63.1961, Rule 1421]
4. The owner or operator shall operate the collection system with negative pressure at each wellhead except under the following conditions:
 - 1) A fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in 40 CFR 63.1981(h)
 - 2) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator as specified in 40 CFR 63.1981(d)(2)[40 CFR 63.1958(b)]
5. At least once per calendar month, the owner or operator shall monitor or conduct testing to verify compliance as follows:
 - measure the gauge pressure in the gas collection header applied to each individual well as provided in section 63.1960(a)(3)
 - monitor the temperature, and nitrogen or oxygen content at each well head in accordance with 63.1960(a)(4), 63.1961(a)(2) and (4).If measuring nitrogen, the nitrogen level shall be determined using EPA Method 3C, unless an alternative test method is established as allowed by § 63.1981(d)(2).

In measuring oxygen, unless an alternative test method is established as allowed by § 63.1981(d)(2), the oxygen level must be determined by an oxygen meter using Method 3A, 3C, or ASTM D6522-11. Determine the oxygen level by an oxygen meter using Method 3A, 3C, or ASTM D6522-11 (if sample location is prior to combustion) except that:
 - 1) The span shall be set between 10 and 12 percent oxygen
 - 2) A data recorder is not required
 - 3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span
 - 4) A calibration error check is not required
 - 5) The allowable sample bias, zero drift and calibration drift are +/- 10 percent.A portable gas composition analyzer may be used to monitor the oxygen levels provided:
 - 1) The analyzer is calibrated; and
 - 2) The analyzer meets all quality assurance and quality control requirements for Method 3A or ASTM D6522-11[40 CFR 63.1961(a)]
6. The permittee shall operate, adjust, and maintain the gas collection system to prevent excessive quantities of air from being drawn into the landfill. An oxygen analyzer, designed to be accurate to +/- 0.5% by volume, shall be installed in the collection piping at the flare station, maintained in good working condition, and calibrated at least biennially. The concentration of oxygen in landfill gas at the flare station shall not exceed 3.5% by volume. Analyzer calibration records shall be maintained for at least five years and made available to the District upon request. [Rule 59(d)(6)]
7. The landfill gas capture and control system shall be installed and operated at all times in accordance with the collection and control system design plan. Collected gas shall be routed to the control system at all times. In the event that the system is not operating, follow the requirements specified in 40 CFR 63.1958(e)(1)(i) and (ii). [40 CFR 63.1958]



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8. The control system shall be designed and operated to reduce NMOC by 98 weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen. The reduction efficiency or parts per million by volume must be established by an initial performance test to be completed no later than 180 days after the initial startup of the approved control system using the test methods specified in § 60.764(d).
9. The owner or operator shall maintain up to date the following records on-site:
 - a) The design capacity report which triggered the requirement to comply with 40 CFR 63.1959(b), including a record of the maximum design capacity, the current amount of solid waste in place, the year-by-year waste acceptance rate and any documentation used for recalculation of site-specific density or design capacity.
 - b) Plot map showing each existing and planned collector in the gas collection system and a unique identification location label for each collector. It should also indicate the date and location of all newly installed wells and an indication if they were added as a corrective action required by this permit.
 - c) Description, location, amount and placement date of all non-degradable refuse including asbestos and demolition refuse place in landfill areas which are excluded from landfill gas collection and control as provided by 40 CFR Part 63.1983(d)
 - d) Continuous records of gas flow demonstrating that all collected gas was controlled using a control device operating in compliance with 40 CFR 63.1959(b)(2)(iii). Additionally, for any bypass lines, records of flow or of monthly inspections of bypass line seals.
 - e) Records of any time the gas collection or control device is not operating and records of shutdown of the gas mover system and all valves in the system contributing to venting of the gas to the atmosphere. In the event an affected unit failed to meet an applicable standard of 40 CFR 63.1958(e)(1): (i) the date, time and duration each failure, and cause; (ii) list of affected sources of equipment; (iii) actions taken to minimize emissions in accordance with the general duty to minimize emissions and any corrective actions taken to return the affected unit to normal or usual manner of operation.
 - f) All collection and control system monitoring data for parameters measured in accordance with 40 CFR 63.1961(a)(1)-(6), including monthly gas header pressure, landfill gas temperature and oxygen or nitrogen concentrations.

[40 CFR 63.1983(a), (c), (g)]
10. The flow rate of landfill gas shall not exceed 3000 scfm per flare. A meter shall be installed at the flare station which measures and displays the landfill gas flow rate to each flare. Permittee shall calibrate this meter at least annually. [NSR]
12. Except for a flare ignition and startup not to exceed 15 minutes, permittee shall ensure complete combustion of landfill gases during operation by maintaining the stack gas exit temperature at no less than 1500°F or as otherwise specified by the flare manufacturer. Supplemental fuel (natural gas or propane) shall be added as necessary to maintain the required stack gas exit temperature. [NSR]
14. The permittee shall maintain, readily accessible records for the life of the control equipment, the control device vendor specifications and the following data as measured during the initial performance test or compliance determination:
 - a. the maximum expected gas generation flow rate as calculated in 40 CFR 60.765(a)(1).
 - b. the density of wells, horizontal collectors, surface collectors or other gas extraction devices determined using the procedures specified in 60.762(b)(2)(ii)(C)(2). [40 CFR 60.765(a)(2)]



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15. For the purposes of conditions referencing semi-annual or annual reports, the first semi-annual reporting period is January 1 to June 30 and the report is due on September 1. The second semi-annual reporting period is July 1 to December 31 and the report is due March 1. Information for second reporting period must be included in the annual report. The annual report covers the period from January 1 to December 31 and is due on March 1. Each annual report should clearly identify reporting made during the first and second semi-annual reporting periods. In the event the due date for reporting falls on a weekend or holiday, the report is due on the next business day. All instances of exceedances and deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official and submitted electronically to EPA's CDX [40 CFR 71.6(a)(3), 60.767(i), 63.1981]
16. The owner or operator shall submit annual and semi-annual reports with the following required information. The owner or operator may fulfill the annual reporting requirement by submitting the two semi-annual reports covering the same period along with a statement or letter indicating as such.
 - a) Number of times that applicable parameters monitored under 40 CFR 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under 40 CFR 63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance. For exceedances of wellhead operational standards for temperature, also provide a statement of the standard being complied with.
 - b) Description and duration of all periods when the gas stream was diverted from the control device or treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 63.1961.
 - c) A description and the duration of all periods when all combustion devices were not operating for any period and the length of time all combustion devices were not operating.
 - d) All periods when the collection system was not operating
 - e) The location of each exceedance of the 500-ppm methane concentration as provided in 40 CFR 63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. For location, the owner or operator shall record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.
 - f) The date of installation and the location of each well or collection system expansion added pursuant to § 63.1960(a)(3) and (4), (b), and (c)(4).
 - g) For any corrective action analysis for which corrective actions are required in 40 CFR 63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.
 - h) As required by the enhanced monitoring provisions in 40 CFR 63.1961(a)(5), the owner or operator shall include the results of all monitoring activities conducted during the period.
 - i) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.
 - ii) include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.
 - iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.
 - i) The most recent performance test results

[40 CFR 63.1981(h)]



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- 17. All 3 hour periods of operation during which the average flare combustion temperature was more than 28° C below the average combustion temperature during the most recent performance test at which compliance with § 60.762(b)(2)(iii) was determined. [40 CFR 60.768(c)(1)(i)]
- 19. All collected landfill gas not delivered to the permitted Miramar Cogeneration facility (District ID APCD1996-SITE-09778), and the North City Cogeneration facility (District ID APCD1996-SITE-09688) shall be incinerated in the flare. [40 CFR 60.763(e) and (f)]
- 21. Emissions of sulfur compounds from this emission unit, calculated as sulfur dioxide, shall not exceed 0.05% by volume on a dry basis. [Rule 53]
- 22. Emissions of combustion particulates shall not exceed 0.10 grains per dry standard cubic foot standardized to 12 percent carbon dioxide by volume. [Rule 53]
- 23. If requested by the District or EPA, emissions of sulfur compounds and/or combustion particulates shall be measured in accordance with EPA reference methods or equivalent methods as approved by the District. [Rule 53]
- 24. Emissions of NOx from any fuel combustion equipment with an input rating of 50 million Btu/hr or greater shall not exceed 125 ppmv calculated as nitrogen dioxide @ 3% oxygen on a dry basis. If requested by the District or EPA, emissions of NOx compounds shall be measured in accordance with EPA reference methods or equivalent methods as approved by the District. [Rule 68]
- 25. The applicable test methods listed in Rule 68 Section (f) and SDCAPCD Test Method 100 shall be used to determine compliance with the NOx emission limits listed above. [Rule 68]
- 27. The permittee shall acquire the required permit(s) from the District prior to any expansion of the landfill or changes in the landfill gas collection system. [Rule 10]
- 56. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

- 11. A shut-off valve shall be in place and maintained at each well head. [Rule 59]
- 13. An automatic shutoff device shall stop the flow of landfill gas to the flare whenever conditions of flame-out, excessive exhaust gas temperature (>1800° F) or excessive landfill gas oxygen content (>3.5% by volume) occur. [Rule 59]
- 18. The above equipment shall be properly maintained and operational at all times except as necessary for maintenance and repair. Calibration and maintenance records required by this permit shall be retained on site and made available to the District upon request. [Rule 59]
- 20. Should the District, or the San Diego County Health Department or any health agency of the state of California determine that an imminent threat exists onsite, endangering human life and requiring immediate action, the owner/operator shall take whatever actions are deemed necessary by the District and/or the health agency to protect human health. [California Health and Safety Code Section 25358.3]
- 26. There shall be no release of leachate or condensate from any part of the landfill gas collection system, or flare station which results in the discharge of non-methane organic compounds to the atmosphere. [Rule 59]
- 28. The owner or operator is subject to Title 17 California Code of Regulations (CCR) SUBARTICLE 6. METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS (§§ 95460 through 95476 and Appendix I), which includes, but may not be limited to, the requirements cited in this permit. [17 CCR § 95461]



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29. The owner or operator shall operate the gas collection and control system in accordance with 17 CCR section 95464(b), which includes, but is not limited to, the following:
- a. Route the collected gas to a gas control device or devices except as provided in 17 CCR sections 95464(d) - Well Raising, and 95464(e) - Repairs and Temporary Shutdown of Gas Collection System Components;
 - b. So that there is no landfill gas leak that exceeds 500 ppmv, measured as methane, at any component under positive pressure. Measurement for this determination shall be made at a distance of one half of an inch or less for a component source that exceeds 500 parts per million by volume (ppmv), excluding non-repeatable, momentary readings; measurement of leaks from any vault must be taken within 3 inches above the surface of the vault exposed to the atmosphere. [17 CCR § 95464(b)(1)(B) and the definition of component leak at § 95475];
 - c. So that all the landfill gas is drawn toward the gas control device or devices;
 - d. So that each wellhead remains under vacuum (negative pressure), except under the following conditions:
 - 1. Use of a geomembrane or synthetic cover, provided permittee establishes acceptable pressure limits for the wellheads and includes them in the Design Plan;
 - 2. A decommissioned well;
 - 3. Well raising activities in which new fill is being added or compacted in the immediate vicinity around the well, or a well extension that, once installed, is sealed or capped until the raised well is reconnected to a vacuum source.
- [17 CCR §§ 95464(b)(1), 95464(c) and 95464(d)]
30. Except as provided in sections 95464(d), 95464(e), and 95466, no location on the landfill surface may exceed either of the following concentrations of methane:
- a. 500 ppmv, other than non-repeatable, momentary readings, as determined by instantaneous surface emissions monitoring;
 - b. An average of 25 ppmv as determined by integrated surface emissions monitoring.
[17 CCR § 95465]
31. The requirements of section 95465 do not apply to the working face of the landfill or to areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal system, or for law enforcement activities requiring excavation. [17 CCR § 95466]
32. If the owner or operator operates a flare for the control of landfill gas, the flare must meet the following requirements:
- a. Achieve a methane destruction efficiency of at least 99 percent by weight;
 - b. Is equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous recording temperature sensors;
 - c. During startup or restart there must be sufficient flow of propane or commercial natural gas to the burners to prevent unburned collected methane from being emitted to the atmosphere;
 - d. The gas control device must be operated within the parameter ranges established during the initial or most recent source test.

[17 CCR § 95464(b)(2)(A)]



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33. The owner or operator must conduct an annual source test for flare control efficiency using the test methods identified in 17 CCR 95471(f). Each succeeding complete annual source test must be conducted no later than 45 days after the anniversary date of the initial source test. If a gas control device remains in compliance after three consecutive source tests the permittee may conduct the source test every three years. If a subsequent source test shows the gas collection and control system is out of compliance the source testing frequency will return to annual. [17 CCR § 95464(b)(4)]
34. The requirements of 17 CCR sections 95464(b)(1)(A), 95464(b)(1)(B), and 95464(c) do not apply to individual landfill gas collection system components that must be temporarily shut down in order to repair the components, due to catastrophic events such as earthquakes, to connect new landfill gas collection system components to the existing system, to extinguish landfill fires, or to perform construction activities pursuant to section 95466, provided the following requirements are met:
 - a. Any new gas collection system components required to maintain compliance with 17 CCR 95464 must be included in the most recent Design Plan pursuant to section 95464(a)(4);
 - b. Methane emissions must be minimized during shutdown pursuant to section 95464(a)(1)(D). [17 CCR § 95464(e)(1-2)]
35. The owner or operator must monitor each individual wellhead monthly to determine the gauge pressure. If there is any positive pressure reading other than as provided in 17 CCR sections 95464(d) and 95464(e), the permittee must take the following actions:
 - a. Initiate corrective action within five calendar days of the positive pressure measurement;
 - b. If the problem cannot be corrected within 15 days of the date the positive pressure was first measured, the permittee must initiate further action, including, but not limited to, any necessary expansion of the gas collection system, to mitigate any positive pressure readings;
 - c. Corrective actions, including any expansion of the gas collection and control system, must be completed and any new wells must be operating within 120 days of the date the positive pressure was first measured, or it is a violation. [17 CCR § 95469(c)]
36. The owner or operator must conduct quarterly surface monitoring in accordance with 17 CCR section 95469 using the equipment and procedures specified in section 95471. Instantaneous surface monitoring shall be conducted using either an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications given at 17 CCR § 95471(a) and using the applicable procedures given at 17 CCR § 95471(c) including, but not limited to, the monitoring grid layout. [17 CCR § 95469(a)]



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37. Instantaneous Surface Monitoring under 17 CCR SUBARTICLE 6: Pursuant to section 95465(a)(1), any landfill surface reading exceeding 500 ppmv, other than non-repeatable, momentary readings, as determined by instantaneous surface emissions monitoring, must be recorded as an exceedance and the following actions taken:
- a. The permittee must record the date, location, and value of each exceedance, along with re-test dates and results. The location of each exceedance must be clearly marked and identified on a topographic map of the MSW landfill, drawn to scale with the location of both the grids and the gas collection system clearly identified.
 - b. Corrective action must be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the location must be re-monitored within ten calendar days of a measured exceedance.
 - 1. If the re-monitoring of the location shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than 10 calendar days after the second exceedance.
 - 2. If the re-monitoring shows a third exceedance, the owner or operator must install a new or replacement well, unless an alternative solution is identified and approved by the District, as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance, or it is a violation of this subarticle.
 - c. Any closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that has no monitored exceedances of the 500 ppmv methane limit specified in section 95465(a)(1) after four consecutive quarterly monitoring periods may monitor annually. Any exceedances of this limit detected during the annual monitoring that cannot be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.
 - d. Any exceedances of the 500 ppmv methane limit specified in section 95465(a)(1) detected during any compliance inspections will result in a return to quarterly monitoring of the landfill.
 - e. Any instantaneous methane measurement of 200 ppmv or greater must be recorded as a reportable reading pursuant to 17 CCR 95471(a)(1)(D).
[17 CCR §§ 95469(a)(2) and 95471]



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38. Integrated Surface Monitoring under 17 CCR SUBARTICLE 6: Any reading exceeding an average of 25 ppmv as specified in 17 CCR section 95465(a)(2) must be recorded as an exceedance and the following actions must be taken:
- a. The owner or operator must record the average surface concentration measured as methane for each grid along with re-test dates and results. The location of the grids and the gas collection system must be clearly marked and identified on a topographic map of the MSW landfill drawn to scale.
 - b. Within 10 calendar days of a measured exceedance, corrective action must be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the grid must be re-monitored.
 - 1. If the re-monitoring of the grid shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than 10 calendar days after the second exceedance.
 - 2. If the re-monitoring in section 95469(a)(2)(B)1. shows a third exceedance, the owner or operator must install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance, or it is a violation of this subarticle.
 - c. Any closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that has no monitored exceedances of the limit specified in section 95465(a)(2) after 4 consecutive quarterly monitoring periods may monitor annually. Any exceedances of the limits specified in section 95465(a)(2) detected during the annual monitoring that cannot be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.
 - d. Any exceedances of the limits specified in section 95465(a)(2) detected during any compliance inspections will result in a return to quarterly monitoring of the landfill.
[17 CCR § 95469(a)(2)]
39. An owner or operator of a closed or inactive MSW landfill, or any closed or inactive area on an active MSW landfill, that can demonstrate that in the three years before the effective date of this subarticle that there were no measured exceedances of the limits specified in section 95465 by annual or quarterly monitoring may monitor annually. Any exceedances of the surface methane emission limits specified in section 95465 detected during the annual monitoring that cannot be remediated within 10 calendar days will result in a return to quarterly monitoring. [17 CCR § 95469(a)(3)]
40. There shall be no leaks of landfill gas from the collection system and along the gas transfer path in excess of 500 ppmv (as methane) measured at a distance of 1/2 inches from the transfer path other than non-repeatable momentary readings.
[17 CCR § 95464(b)(1)(B) and the definition of component leak at § 95475(b)]
41. Components containing landfill gas that are under positive pressure must be monitored quarterly for leaks (not to exceed 500 ppmv as methane pursuant §95464(b)(1)(B)). Any component leak must be tagged and repaired within 10 calendar days, or it is a violation.
[17 CCR § 95469(b)(3)]
42. Component leak testing at MSW landfills having landfill gas-to-energy facilities may be conducted prior to scheduled maintenance or planned outage periods. [17 CCR § 95469(b)(3)(A)]



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43. Recordkeeping - five year retention, 17 CCR SUBARTICLE 6: In addition to any other records required by this permit, the owner or operator must maintain the following records for at least five (5) years:
- a. All gas collection system downtime exceeding five calendar days, including individual well shutdown and disconnection times, and the reason for the downtime.
 - b. All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown.
 - c. Expected gas generation flow rate calculated pursuant to section 95471(e) - 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories, Chapter 3, using a recovery rate of 75%.
 - d. Records of all instantaneous surface readings of 200 ppmv or greater; all exceedances of the limits in sections 95464(b)(1)(B) or 95465, including the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, any required re-monitoring and the re-monitored concentration in ppmv, and wind speed during surface sampling; and the installation date and location of each well installed as part of a gas collection system expansion.
 - e. Records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken.
 - f. Annual solid waste acceptance rate and the current amount of waste-in-place.
 - g. Records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system.
 - h. Results of any source tests conducted pursuant to section 95464(b)(4).
 - i. Records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere:
 - 1. When solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment;
 - 2. During repairs or the temporary shutdown of gas collection system components;
 - 3. When solid waste was excavated and moved.
 - j. Records of any construction activities pursuant to section 95466. The records must contain the following information:
 - 1. A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions.
 - 2. Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components.
 - 3. A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts.
 - k. Records of the equipment operating parameters specified to be monitored under sections 95469(b)(1) and 95469(b)(2) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:
 - 1. For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with sections 95464(b)(2) and 95464(b)(3)(A) was determined.
 - 2. For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone pursuant to section 95464(b)(3)(A)2.
 - 3. For any owner or operator who uses a boiler or process heater with a design heat input capacity of 44 megawatts (150 MMBtu/hr) or greater to comply with section 95464(b)(3), all periods of operation of the boiler or process heater (e.g., steam use, fuel use, or monitoring data collected pursuant to other federal, State, local, or tribal regulatory requirements).

[17 CCR § 95470(a)(1)]



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44. Recordkeeping - retention for life of control device, 17 CCR SUBARTICLE 6: The owner or operator must maintain the following records for the life of each gas control device:
- a. The control device vendor specifications.
 - b. The expected gas generation flow rate as calculated pursuant to section 95471(e).
 - c. The percent reduction of methane achieved by the control device determined pursuant to section 95471(f).
 - d. For a boiler or process heater, the description of the location at which the collected gas vent stream is introduced into the boiler or process heater over the same time period of the performance test.
 - e. For an open flare: the flare type (i.e., steam-assisted, air-assisted, or non-assisted); all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in 40 CFR § 60.18 (as last amended 73 Fed.Reg. 78209 (December 22, 2008), which is incorporated by reference herein; and records of the flare pilot flame or flare flame monitoring and records of all periods of operations during which the pilot flame or the flare flame is absent.
[17 CCR § 95470(a)(2)]
45. Record Storage: The owner or operator must maintain copies of the records and reports required by this subarticle and provide them to the District within five business days upon request. Records and reports must be kept at a location within the State of California. [17 CCR § 95470(a)(3)]
46. Annual Report: Except as given in 17 CCR section 95463, the owner or operator must prepare an annual report for the period of January 1 through December 31 of each year. Each annual report must be submitted to the District by March 15 of the following year and must contain the following information:
- a. MSW landfill name, owner and operator, address, and solid waste information system (SWIS) identification number.
 - b. Total volume of landfill gas collected (reported in standard cubic feet).
 - c. Average composition of the landfill gas collected over the reporting period (reported in percent methane and percent carbon dioxide by volume).
 - d. Gas control device type, year of installation, rating, fuel type, and total amount of landfill gas combusted in each control device.
 - e. The date that the gas collection and control system was installed and in full operation.
 - f. The percent methane destruction efficiency of each gas control device(s).
 - g. Type and amount of supplemental fuels burned with the landfill gas in each device.
 - h. Total volume of landfill gas shipped off-site, the composition of the landfill gas collected (reported in percent methane and percent carbon dioxide by volume), and the recipient of the gas.
 - i. Most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface.
 - j. The information records cited herein and required by sections 95470(a)(1)(A), 95470(a)(1)(B), 95470(a)(1)(C), 95470(a)(1)(D), 95470(a)(1)(E), and 95470(a)(1)(F), 95470(a)(1)(H), and 95470(a)(1)(K).
[17 CCR § 95470(b)(3)]



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47. Landfill Gas Heat Input Capacity Report: The owner or operator must calculate the landfill gas heat input capacity as required by section 95463(b) (i.e., gas heat input capacity report requirement for landfills greater than or equal to 450,000 tons of waste-in-place) using the procedures specified in section 95471(b) (i.e., procedure as specified in Appendix I, as applicable) and report the results to the District within 90 days of the effective date of this subarticle or upon reaching 450,000 tons of waste-in-place. The calculation, along with relevant parameters, must be provided as part of the report. [17 CCR § 95470(b)(5)]
48. Any report, or information submitted pursuant to this subarticle must contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this subarticle, must state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [17 CCR § 95470(b)(6)]
49. Each part of 17 CCR Subarticle 6 is deemed severable, and in the event that any part of this subarticle is held to be invalid, the remainder of this subarticle continues in full force and effect. [17 CCR § 95476]
50. The landfill gas flare shall be properly maintained and operational at all times when the collected landfill gas is routed to the flare. [Rule 69.7(e)(1)]
51. In the event the landfill gas collection system or landfill gas flare is inoperable, the gas mover equipment shall be shut down and all valves in the collection system and flare contributing to venting of the gas to the atmosphere shall be closed within one hour. [Rule 69.7(e)(2)]
52. An enclosed flare shall be:
 1. Equipped with automatic dampers, an automatic shutdown device, a flame arrester, and continuous-recording temperature sensors.
 2. Operated within the parameter ranges established during the initial or most recent source test.[Rule 69.7(e)(3)]
53. An owner or operator of any landfill gas flare shall install and maintain in good working order a gas flow rate measuring device to monitor, display, and record the landfill gas flow rate to each flare at least once every 15 minutes. The gas flow rate measuring device shall be calibrated at least once per calendar year in accordance with the manufacturer's specifications and recommendations. [Rule 69.7(f)(1)]
54. An owner or operator of any enclosed landfill gas flare shall install and maintain in good working order a gas temperature measuring device equipped with a continuous recorder which has an accuracy of $\pm 1\%$ of the temperature being measured. The gas temperature measuring device shall be calibrated in accordance with the manufacturer's specifications and recommendations. [Rule 69.7(f)(2)]



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55. An owner or operator of a landfill gas flare shall maintain, at a minimum, the following:
1. Records of the landfill gas flow rate.
 2. Records of all landfill gas flow rate-measuring device calibrations pursuant to Subsection (f)(1).
 3. Records of the landfill gas throughput in standard cubic feet, which shall be recorded based on actual readings of the landfill gas flow rate-measuring device.
 4. Records of all periods when the flare is non-operational.
 5. Records of all flare maintenance events, including dates maintenance was performed and the nature of the maintenance.
 6. Records of any source test as conducted in accordance with Section (i) Source Test Requirements.
 7. A manual of recommended maintenance as provided by the flare manufacturer, or other maintenance procedures as approved in writing by the Air Pollution Control Officer.
 8. For an enclosed flare:
 - (i) Records of all 3-hour periods of operation during which the average temperature difference was more than 82°F (28°C) below the average combustion temperature during the most recent source test at which compliance with Title 17, California Code of Regulations, Sections 95464(b)(2) and 95464(b)(3)(A) was determined.
 - (ii) Records of the flare temperature, expressed in °F or °C.
 - (iii) Records of all flare temperature-measuring device calibrations pursuant to Subsection (f)(2).

All records shall be retained in electronic and/or hardcopy format on-site for at least five calendar years and made available to the District upon request. [Rule 69.7(g)]

57. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
58. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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San Diego City Environmental Services
 Deputy Director Disposal & Environment
 9601 Ridgehaven Ct #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego/Environmental
 Landfill Program Manager
 5180 Convoy St
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

San Diego City Environmental Services Dept Deputy Director WRAP 9601 Ridgehaven Ct #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

AN INACTIVE LANDFILL EQUIPPED WITH A GAS COLLECTION, MONITORING, AND FLARE SYSTEM CONSISTING OF COLLECTION WELLS, MIGRATION PROBES, AN ENCLOSED FLARE, AND TWO BLOWERS.

FLARE STATION CONTROL EQUIPMENT SHALL INCLUDE A FLAME ARRESTOR, AN OPTICAL FLAME DETECTOR, AN AUTOMATIC SHUT OFF DEVICE, AN IN-LINE OXYGEN ANALYZER, A FLOW METER, AND A STACK THERMOCOUPLE.

THIS CLOSED DISPOSAL AREA IS ALSO KNOWN AS THE SOUTH MIRAMAR LANDFILL.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [93A] Test Witness and Report Review (T&M)
 1 [48C] Waste Disposal Site/Landfill

BEC: APCD2025-CON-002259

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The landfill gas capture and control system shall be installed and operated at all times in accordance with the collection and control system design plan. Collected gas shall be routed to the control system at all times. In the event that the system is not operating, follow the requirements specified in 40 CFR 63.1958(e)(1)(i) and (ii). [40 CFR 63.1958]
2. The collection and control system design plan shall be prepared and approved by a professional engineer, and shall conform to the requirements of 40 CFR 63.1962. Any revisions to the plan shall be submitted to the Administrator. A copy of the most recent design plan shall be maintained on site at all times. [40 CFR 63.1981]



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3. Landfill gas shall only be routed to a control system which complies with the requirements of 40 CFR 63.1959(b)(2)(iii)(A), (B) or (C) as applicable based on the device.
4. Each wellhead shall be equipped with a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements. [40 CFR 63.1961]
5. The collected landfill gas temperature shall be maintained at less than 62.8° C at each well, unless the administrator or District has approved an alternative higher operating temperature value for any particular well, in which case the landfill gas temperature shall comply with the approved alternative. A higher operating value demonstration must be submitted to the District for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable). [40 CFR 63.1958(c)(1)]
6. Each temperature gauge used for measurement of landfill gas temperature shall be calibrated annually in accordance with the procedure in section 10.3 of EPA Method 2 of appendix A-1 of 40 CFR Part 60. Temperature gauge maintenance and calibration records shall be maintained for at least five years and made available to the District upon request. [40 CFR 63.1961, Rule 1421]
7. The owner or operator shall operate the collection system with negative pressure at each wellhead except under the following conditions:
 - 1) A fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in 40 CFR 63.1981(h)
 - 2) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator as specified in 40 CFR 63.1981(d)(2)

[40 CFR 63.1958(b)]
8. The owner or operator shall implement a program to monitor for landfill cover integrity as required and implement cover repairs as necessary on a monthly basis. [40 CFR 63.1960(c)(5)]
9. Any bypass lines shall be equipped with calibrated and operational gas flow rate measuring devices which record the flow every 15 minutes. Each bypass line shall be equipped with a car-seal or lock-and-key type valve which shall be kept in the closed position at all times. A visual inspection of each valve must be conducted at least once each calendar month to ensure the valve is maintained in a closed position. [40 CFR 63.1961]



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10. At least once per calendar month, the owner or operator shall monitor or conduct testing to verify compliance as follows:

- measure the gauge pressure in the gas collection header applied to each individual well as provided in section 63.1960(a)(3)
- monitor the temperature, and nitrogen or oxygen content at each well head in accordance with 63.1960(a)(4), 63.1961(a)(2) and (4).

If measuring nitrogen, the nitrogen level shall be determined using EPA Method 3C, unless an alternative test method is established as allowed by § 63.1981(d)(2).

In measuring oxygen, unless an alternative test method is established as allowed by § 63.1981(d)(2), the oxygen level must be determined by an oxygen meter using Method 3A, 3C, or ASTM D6522-11. Determine the oxygen level by an oxygen meter using Method 3A, 3C, or ASTM D6522-11 (if sample location is prior to combustion) except that:

- 1) The span shall be set between 10 and 12 percent oxygen
- 2) A data recorder is not required
- 3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span
- 4) A calibration error check is not required
- 5) The allowable sample bias, zero drift and calibration drift are +/- 10 percent.

A portable gas composition analyzer may be used to monitor the oxygen levels provided:

- 1) The analyzer is calibrated; and
- 2) The analyzer meets all quality assurance and quality control requirements for Method 3A or ASTM D6522-11

[40 CFR 63.1961(a)]

11. Unless an alternative temperature standard has been approved by the administrator, the owner or operator shall take corrective actions in response to a measured landfill gas temperature above 62.8 degrees Celsius as follows:

a. Upon first detecting an exceedance, initiate corrective action within 5 calendar days.

b. If a temperature less than or equal to 62.8 degrees Celsius cannot be achieved within 15 calendar days of initial detection of a high reading, conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after the first measured exceedance.

c. If a temperature less than or equal to 62.8 degrees Celsius cannot be achieved within 60 calendar days of initial detection of a high reading, the owner or operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 62.8 degrees Celsius.

d. If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator as soon as practicable but no later than 75 days after the initial exceedance.

e. If a landfill gas temperature measured at either the wellhead or at any point in a well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration is greater than or equal to 1000 ppmv, the corrective action(s) must be completed within 15 calendar days.

If an alternative temperature standard has been approved the owner or operator shall follow any specified alternative requirements.

[40 CFR 63.1960(a)(4)]



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12. 12) The methane concentration at the landfill surface shall be maintained at less than 500 ppm above background. The owner or operator shall monitor surface concentrations of methane at discrete sampling points along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals (or site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover, for each collection area on a calendar quarterly basis using an organic vapor analyzer, Flame ionization detector or other portable monitor meeting the specifications provided in 40 CFR 63.1958(d). Surface emission monitoring must be performed in accordance with section 8.3.1 of EPA Method 21 of appendix A-7 of part 60 of this chapter, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions. The calibration procedures provided in Sections 8 and 10 of EPA Method 21 of appendix A shall be followed immediately before commencing a surface monitoring survey, and the calibration gas shall be Methane diluted to a nominal concentration of 500 ppm in air. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. A monitored exceedance is not a violation of the above requirement as long as the following specified actions are taken by the landfill owner/operator:
13. For the purposes of conditions referencing semi-annual or annual reports, the first semi-annual reporting period is January 1 to June 30 and the report is due on September 1. The second semi-annual reporting period is July 1 to December 31 and the report is due March 1. Information for second reporting period must be included in the annual report. The annual report covers the period from January 1 to December 31 and is due on March 1. Each annual report should clearly identify reporting made during the first and second semi-annual reporting periods. In the event the due date for reporting falls on a weekend or holiday, the report is due on the next business day. All instances of exceedances and deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official and submitted electronically to EPA's CDX [40 CFR 71.6(a)(3), 60.767(i), 63.1981]



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14. The owner or operator shall submit annual and semi-annual reports with the following required information. The owner or operator may fulfill the annual reporting requirement by submitting the two semi-annual reports covering the same period along with a statement or letter indicating as such.

a) Number of times that applicable parameters monitored under 40 CFR 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under 40 CFR 63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance. For exceedances of wellhead operational standards for temperature, also provide a statement of the standard being complied with.

b) Description and duration of all periods when the gas stream was diverted from the control device or treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 63.1961.

c) A description and the duration of all periods when all combustion devices were not operating for any period and the length of time all combustion devices were not operating.

d) All periods when the collection system was not operating

e) The location of each exceedance of the 500-ppm methane concentration as provided in 40 CFR 63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. For location, the owner or operator shall record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

f) The date of installation and the location of each well or collection system expansion added pursuant to § 63.1960(a)(3) and (4), (b), and (c)(4).

g) For any corrective action analysis for which corrective actions are required in 40 CFR 63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

h) As required by the enhanced monitoring provisions in 40 CFR 63.1961(a)(5), the owner or operator shall include the results of all monitoring activities conducted during the period.

i) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.

ii) include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.

iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

i)The most recent performance test results

[40 CFR 63.1981(h)]



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15. Enhanced Monitoring under 40 CFR 63 Subpart AAAAA:
- At each well with a measurement of landfill gas temperature greater than 62.8 degrees, the owner or operator shall implement enhanced monitoring as follows:
- a) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well.
 - b) Monitor oxygen concentration.
 - c) Monitor temperature of the landfill gas at the wellhead.
 - d) Monitor temperature of the landfill gas every 10 vertical feet of the well.
 - e) Monitor the methane concentration with a methane meter using EPA Method 3C of appendix A-6 to part 60, EPA Method 18 of appendix A-6 to part 60 of this chapter, or a portable gas composition analyzer to monitor the methane levels provided that the analyzer is calibrated and the analyzer meets all quality assurance and quality control requirements for EPA Method 3C or EPA Method 18.
 - f) Monitor and determine carbon monoxide concentrations, as follows:
 - 1) Collect the sample from the wellhead sampling port in a passivated canister or multi-layer foil gas sampling bag (such as the Cali-5-Bond Bag) and analyze that sample using EPA Method 10 of appendix A-4 to part 60 of this chapter, or an equivalent method with a detection limit of at least 100 ppmv of carbon monoxide in high concentrations of methane; or
 - 2) Collect and analyze the sample from the wellhead using EPA Method 10 of appendix A-4 to part 60 to measure carbon monoxide concentrations.
 - 3) When sampling directly from the wellhead, you must sample for 5 minutes plus twice the response time of the analyzer. These values must be recorded. The five 1-minute averages are then averaged to give you the carbon monoxide reading at the wellhead.
 - 4) When collecting samples in a passivated canister or multi-layer foil sampling bag, you must sample for the period of time needed to assure that enough sample is collected to provide five (5) consecutive, 1-minute samples during the analysis of the canister or bag contents, but no less than 5 minutes plus twice the response time of the analyzer. The five (5) consecutive, 1-minute averages are then averaged together to give you a carbon monoxide value from the wellhead.
 - g) The enhanced monitoring described in this condition must begin 7 calendar days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit)
 - h) The enhanced monitoring in this condition must be conducted on a weekly basis. If four consecutive weekly carbon monoxide readings are under 100 ppmv, then enhanced monitoring may be decreased to monthly. However, if carbon monoxide readings exceed 100 ppmv again, the landfill must return to weekly monitoring.
 - i) The enhanced monitoring in this condition can be stopped once a higher operating value is approved, at which time the monitoring provisions issued with the higher operating value should be followed, or once the measurement of landfill gas temperature at the wellhead is less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit).
- [40 CFR 63.1961(a)(5)]
16. For each wellhead with a measurement of landfill gas temperature greater than or equal to 73.9 degrees Celsius (165 degrees Fahrenheit), the owner or operator shall annually monitor temperature of the landfill gas every 10 vertical feet of the well. This temperature can be monitored either with a removable thermometer, or using temporary or permanent thermocouples installed in the well. [40 CFR 63.1961(a)(6)]
17. For any wellhead with a measured landfill gas temperature greater than or equal to 76.7 degrees Celsius and a carbon monoxide concentration greater than or equal to 1000 ppmv, the owner or operator must report the result to the Administrator and the District's compliance division, via email, within 24 hours of the measurement, unless an alternative has been approved by the administrator. [40 CFR 63.1981(k)]



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18. Unless otherwise specified, all records required by this permit must be kept on-site for at least five years from their date of creation. Records may be kept in an electronic format. Off-site records are also acceptable if they are retrievable in under 4 hours.
19. The owner or operator shall maintain up to date the following records on-site:
 - a) The design capacity report which triggered the requirement to comply with 40 CFR 63.1959(b), including a record of the maximum design capacity, the current amount of solid waste in place, the year-by-year waste acceptance rate and any documentation used for recalculation of site-specific density or design capacity.
 - b) Plot map showing each existing and planned collector in the gas collection system and a unique identification location label for each collector. It should also indicate the date and location of all newly installed wells and an indication if they were added as a corrective action required by this permit.
 - c) Description, location, amount and placement date of all non-degradable refuse including asbestos and demolition refuse place in landfill areas which are excluded from landfill gas collection and control as provided by 40 CFR Part 63.1983(d)
 - d) Continuous records of gas flow demonstrating that all collected gas was controlled using a control device operating in compliance with 40 CFR 63.1959(b)(2)(iii). Additionally, for any bypass lines, records of flow or of monthly inspections of bypass line seals.
 - e) Records of any time the gas collection or control device is not operating and records of shutdown of the gas mover system and all valves in the system contributing to venting of the gas to the atmosphere. In the event an affected unit failed to meet an applicable standard of 40 CFR 63.1958(e)(1): (i) the date, time and duration each failure, and cause; (ii) list of affected sources of equipment; (iii) actions taken to minimize emissions in accordance with the general duty to minimize emissions and any corrective actions taken to return the affected unit to normal or usual manner of operation.
 - f) All collection and control system monitoring data for parameters measured in accordance with 40 CFR 63.1961(a)(1)-(6), including monthly gas header pressure, landfill gas temperature and oxygen or nitrogen concentrations.
- [40 CFR 63.1983(a), (c), (g)]
20. For the life of the affected source, the owner or operator shall keep any applicable written procedures for the Continuous Monitoring System quality control program required by 40 CFR 63.8(d)(2) and make this information available upon request to the Administrator. The plan must contain the program of corrective action. If the plan is revised, previous versions must be maintained for at least 5 years. [40 CFR 63.1983(c)(8)].
21. The owner or operator shall keep records of collection and control system exceedances of the operational standards in § 63.1958, including all instances of positive pressure in the gas header or high landfill gas temperature, the reading in the subsequent month, whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 63.1983(e)(1)]
22. The owner or operator shall also keep records of each wellhead temperature monitoring value of 62.8 degrees Celsius (131 degrees Fahrenheit) or above. [40 CFR 63.1983(e)(2)]



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23. The owner or operator shall keep records of all root cause analyses and related information required by this permit for each instance of a positive pressure reading in the gas header or high landfill gas temperature:
- a) For any corrective actions which are corrected no later than 60 days from the date of the initial exceedance, a record of the recommended corrective action(s) taken and the date(s) the action(s) were completed.
 - b) For any corrective actions which are corrected later than 60 days but no later than 120 days from the date of the initial exceedance, the corrective action analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.
 - c) For any corrective actions which are not completed within 120 days from the date of the initial exceedance, the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the Administrator.
- [40 CFR 63.1983(e)]
24. The owner or operator shall keep records of all enhanced monitoring activities as required by the enhanced monitoring provisions in § 63.1961(a)(5) [40 CFR 63.1983(e)(2)(ii)]
25. The owner or operator shall keep a copy of all 24-hour high temperature reports in § 63.1981(k), including a record of the email transmission.[40 CFR 63.1983(e)(2)(iii)]
26. In the event the collection or control system is not operating:
- (a) The gas mover system must be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere must be closed within 1 hour of the collection or control system not operating; and
 - (b) Efforts to repair the collection or control system must be initiated and completed in a manner such that downtime is kept to a minimum, and the collection and control system must be returned to operation.
- [40 CFR Subpart AAAA, 63.1958(e)(1)]
27. The owner or operator shall maintain, readily accessible records for the life of the control equipment, the control device vendor specifications and the following data as measured during the initial performance test or compliance determination, and for any subsequent performance tests or monitoring for at least 5 years:
- the maximum expected gas generation flow rate as calculated 40 CFR 63.1960(a)(1).
 - The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in § 63.1962(a)(1) and (2).
- [40 CFR 63.1983(b)(1)]
28. The owner or operator shall not add any liquids, other than leachate, to the waste mass of the landfill unless this permit is modified to specify applicable requirements for this activity. [40 CFR 63.1947]
29. The active waste disposal operation shall not exceed the maximum elevation (510 ft MSL) and size (807 acres) limits specified in the Integrated Waste Management Board Permit Number 37-AA-0020. These limits are equivalent to a design capacity of approximately 93,795,600 cubic yards. [NSR]
38. The exhaust gas concentration of Sulfur compounds calculated as Sulfur Dioxide (SO₂) while burning gaseous fuel shall not exceed 0.05% by volume on a dry basis.
39. The flow rate of landfill gas into the flare shall not exceed 650 SCFM. A meter shall be installed at the flare station which measures and displays the landfill gas flow rate. Permittee shall calibrate this meter at least biennially.



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- 40. There shall be no leaks of Landfill Gas from the Collection System and Flare equipment in excess of 1375 PPMV measured as Methane at a distance of 1/2 inches from the transfer path, other than non-repeatable momentary readings. This Requirement does not apply during active maintenance, repair or sampling activities.
- 42. Except for a flare ignition and startup not to exceed 15 minutes, permittee shall ensure complete combustion of landfill gases during operation by maintaining the stack gas exit temperature at no less than 1500°F or as otherwise specified by the flare manufacturer. Supplemental fuel (natural gas or propane) shall be added as necessary to maintain the required stack gas exit temperature. [NSR]
- 43. All 3-hour periods of operation during which the average combustion temperature was more than 28 deg. C (50 deg. F) below the average combustion temperature during the most recent performance test at which compliance with Sec. 60.762(b)(2)(iii) was determined shall be recorded and reported under Sec. 60.767(g). [40 CFR 60.768(c)(1)(i)]
- 46. A thermocouple, designed to be accurate to within 50° F at 1500° F, shall be installed in the flare stack and maintained in good working condition. The temperature of the exhaust gas in the flare stack shall be displayed at the flare station during incineration. [Rule 59]
- 47. Particulate emissions shall not exceed 0.10 grains per dry standard cubic foot of gas which is standardized to 12 percent of Carbon Dioxide by volume.
- 48. If Particulate Emissions measurements are performed, the emissions shall be measured in accordance with District Method 5.
- 49. The equipment shall be properly maintained in good working condition at all times. Calibration and maintenance records required by this Permit shall be retained for at least five (5) years and be made available to the District upon request.

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

- 30. There shall be no release of dust from any part of the landfill, associated landfill operations, or on-site equipment which exceeds the applicable visible emission standards specified in the District Rules and Regulations. [Rule 50]
- 31. There shall be no release of odors from any part of the landfill, associated operations or on-site equipment which exceeds the applicable public nuisance standards specified in the District Rules and Regulations. [Rule 51]
- 32. The landfill, landfill cover, liners, any associated landfill gas collection and control equipment, the flare station, and any other contrivances used to confine, capture or control landfill gas, leachate or condensate shall be operated and maintained in compliance with the applicable requirements of District Rule 59 and any other applicable District Rules and Regulations. [Rule 59]
- 33. There shall be no release of leachate or condensate from any part of the landfill cover which results in the discharge of odors, toxic air contaminants, or reactive organic compounds to the atmosphere. [Rule 59]
- 34. The owner or operator shall not accept waste at the Landfill or deposit waste at the active face of the Landfill on the following holidays: Memorial Day, Independence Day, and Labor Day, except in the case of a public emergency including, but not limited to, an extraordinary fire, flood, storm, epidemic, pandemic, or other disaster. [Rule 51]
- 35. From October 15th through May 1st each year during the term of this Order, the owner or operator shall use a slope fill to deposit waste instead of a horizontal (pancake lift) fill in order to minimize the active face and reduce the area of exposed waste. [Rule 51]



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36. The owner or operator shall use nonreusable geosynthetic sheeting as Alternative Daily Cover, as described herein.
- The owner or operator shall use nonreusable geosynthetic sheeting for Alternative Daily Cover at the active face of the Landfill, contingent upon written regulatory approval from LEA, and shall continue using such cover system between October 1 and May 1 each year the landfill is active.
- In the unanticipated event that the owner or operator cannot utilize the cover deployer machine due to any of the following: (i) the deployer machine experiences mechanical issues that render it non-operational, (ii) the nonreusable geosynthetic sheeting is commercially unavailable; or (iii) inclement weather prohibits the use of the deployer machine, the owner or operator may utilize daily cover or alternative daily cover at the active face of the Landfill as approved by the LEA. Tarps utilized in these instances shall be in good condition and generally impermeable as originally manufactured. [Rule 51]
41. The permittee shall operate, adjust, and maintain the gas collection system to prevent excessive quantities of air from being drawn into the landfill. An oxygen analyzer, designed to be accurate to +/- 0.5% by volume, shall be installed in the collection piping at the flare station, maintained in good working condition, and calibrated at least biennially. The concentration of oxygen in landfill gas at the flare station shall not exceed 3.5% by volume. Analyzer calibration records shall be maintained for at least five years and made available to the District upon request. [Rule 59(d)(6)]
44. A shut-off valve shall be in place and maintained at each well head. [Rule 59]
45. An automatic shutoff device shall stop the flow of landfill gas to the flare whenever conditions of flame-out, excessive exhaust gas temperature (>1800° F) or excessive landfill gas oxygen content (>3.5% by volume) occur. [Rule 59]



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San Diego City Environmental Services
 Deputy Director Disposal & Environment
 9601 Ridgehaven Ct #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego/Environmental
 Landfill Program Manager
 5180 Convoy St
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

San Diego City Environmental Services Dept Deputy Director WRAP 9601 Ridgehaven Ct #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

A non-hazardous waste landfill operation that includes quarrying, municipal waste disposal, waste compaction, cover material application, and haul road activities conducted at one active location (West Phase II), and two inactive locations (West Phase I, North). Also includes a landfill gas collection and condensate management system consisting of multiple gas collection wells and all associated piping, valves, fittings, sample points, liquid pumps, liquid storage tanks, and landfill gas blower(s).

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [48C] Waste Disposal Site/Landfill

BEC: APCD2025-CON-002244

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. The landfill gas capture and control system shall be installed and operated at all times in accordance with the collection and control system design plan. Collected gas shall be routed to the control system at all times. In the event that the system is not operating, follow the requirements specified in 40 CFR 63.1958(e)(1)(i) and (ii). [40 CFR 63.1958]
2. The collection and control system design plan shall be prepared and approved by a professional engineer, and shall conform to the requirements of 40 CFR 63.1962. Any revisions to the plan shall be submitted to the Administrator. A copy of the most recent design plan shall be maintained on site at all times. [40 CFR 63.1981]
3. Landfill gas shall only be routed to a control system which complies with the requirements of 40 CFR 63.1959(b)(2)(iii)(A), (B) or (C) as applicable based on the device.
4. Each wellhead shall be equipped with a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements. [40 CFR 63.1961]



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5. The collected landfill gas temperature shall be maintained at less than 62.8° C at each well, unless the administrator or District has approved an alternative higher operating temperature value for any particular well, in which case the landfill gas temperature shall comply with the approved alternative. A higher operating value demonstration must be submitted to the District for approval and must include supporting data demonstrating that the elevated parameter neither causes fires nor significantly inhibits anaerobic decomposition by killing methanogens. The demonstration must satisfy both criteria in order to be approved (i.e., neither causing fires nor killing methanogens is acceptable). [40 CFR 63.1958(c)(1)]
6. Each temperature gauge used for measurement of landfill gas temperature shall be calibrated annually in accordance with the procedure in section 10.3 of EPA Method 2 of appendix A-1 of 40 CFR Part 60. Temperature gauge maintenance and calibration records shall be maintained for at least five years and made available to the District upon request. [40 CFR 63.1961, Rule 1421]
7. The owner or operator shall operate the collection system with negative pressure at each wellhead except under the following conditions:
 - 1) A fire or increased well temperature. The owner or operator must record instances when positive pressure occurs in efforts to avoid a fire. These records must be submitted with the semi-annual reports as provided in 40 CFR 63.1981(h)
 - 2) A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes must be approved by the Administrator as specified in 40 CFR 63.1981(d)(2)

[40 CFR 63.1958(b)]
8. The owner or operator shall implement a program to monitor for landfill cover integrity as required and implement cover repairs as necessary on a monthly basis. [40 CFR 63.1960(c)(5)]
9. Any bypass lines shall be equipped with calibrated and operational gas flow rate measuring devices which record the flow every 15 minutes. Each bypass line shall be equipped with a car-seal or lock-and-key type valve which shall be kept in the closed position at all times. A visual inspection of each valve must be conducted at least once each calendar month to ensure the valve is maintained in a closed position. [40 CFR 63.1961]
10. At least once per calendar month, the owner or operator shall monitor or conduct testing to verify compliance as follows:
 - measure the gauge pressure in the gas collection header applied to each individual well as provided in section 63.1960(a)(3)
 - monitor the temperature, and nitrogen or oxygen content at each well head in accordance with 63.1960(a)(4), 63.1961(a)(2) and (4).

If measuring nitrogen, the nitrogen level shall be determined using EPA Method 3C, unless an alternative test method is established as allowed by § 63.1981(d)(2).

In measuring oxygen, unless an alternative test method is established as allowed by § 63.1981(d)(2), the oxygen level must be determined by an oxygen meter using Method 3A, 3C, or ASTM D6522-11. Determine the oxygen level by an oxygen meter using Method 3A, 3C, or ASTM D6522-11 (if sample location is prior to combustion) except that:

 - 1) The span shall be set between 10 and 12 percent oxygen
 - 2) A data recorder is not required
 - 3) Only two calibration gases are required, a zero and span, and ambient air may be used as the span
 - 4) A calibration error check is not required
 - 5) The allowable sample bias, zero drift and calibration drift are +/- 10 percent.

A portable gas composition analyzer may be used to monitor the oxygen levels provided:

 - 1) The analyzer is calibrated; and
 - 2) The analyzer meets all quality assurance and quality control requirements for Method 3A or ASTM D6522-11

[40 CFR 63.1961(a)]



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11. Unless an alternative temperature standard has been approved by the administrator, the owner or operator shall take corrective actions in response to a measured landfill gas temperature above 62.8 degrees Celsius as follows:
- a. Upon first detecting an exceedance, initiate corrective action within 5 calendar days.
 - b. If a temperature less than or equal to 62.8 degrees Celsius cannot be achieved within 15 calendar days of initial detection of a high reading, conduct a root cause analysis and correct the exceedance as soon as practicable, but no later than 60 days after the first measured exceedance.
 - c. If a temperature less than or equal to 62.8 degrees Celsius cannot be achieved within 60 calendar days of initial detection of a high reading, the owner or operator must also conduct a corrective action analysis and develop an implementation schedule to complete the corrective action(s) as soon as practicable, but no more than 120 days following the measurement of landfill gas temperature greater than 62.8 degrees Celsius.
 - d. If corrective action is expected to take longer than 120 days to complete after the initial exceedance, the owner or operator must submit the root cause analysis, corrective action analysis, and corresponding implementation timeline to the Administrator as soon as practicable but no later than 75 days after the initial exceedance.
 - e. If a landfill gas temperature measured at either the wellhead or at any point in a well is greater than or equal to 76.7 degrees Celsius (170 degrees Fahrenheit) and the carbon monoxide concentration is greater than or equal to 1000 ppmv, the corrective action(s) must be completed within 15 calendar days.
If an alternative temperature standard has been approved the owner or operator shall follow any specified alternative requirements.

[40 CFR 63.1960(a)(4)]



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12. The methane concentration at the landfill surface shall be maintained at less than 500 ppm above background. The owner or operator shall monitor surface concentrations of methane at discrete sampling points along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals (or site-specific established spacing) and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover, for each collection area on a calendar quarterly basis using an organic vapor analyzer, Flame ionization detector or other portable monitor meeting the specifications provided in 40 CFR 63.1958(d). Surface emission monitoring must be performed in accordance with section 8.3.1 of EPA Method 21 of appendix A-7 of part 60 of this chapter, except that the probe inlet must be placed within 5 to 10 centimeters of the ground. Monitoring must be performed during typical meteorological conditions. The calibration procedures provided in Sections 8 and 10 of EPA Method 21 of appendix A shall be followed immediately before commencing a surface monitoring survey, and the calibration gas shall be Methane diluted to a nominal concentration of 500 ppm in air. Any reading of 500 ppm or more above background at any location shall be recorded as a monitored exceedance. The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells. A monitored exceedance is not a violation of the above requirement as long as the following specified actions are taken by the landfill owner/operator:
- a) the location must be recorded using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.
 - b) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the Gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.
 - c) If the re-monitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the re-monitoring shows a third exceedance from the same location, the action specified in section (e) of the condition shall be taken, and no further monitoring of that location is required until the action specified in section (e) of this condition has been taken..
 - d) Any location that initially showed an exceedance but has a Methane concentration less than 500 ppm above background at the 10-day re-monitoring specified in Section b) or c) of this condition shall be re-monitored 1 month from the initial exceedance. If the 1-month re-monitoring shows a concentration <500 ppm above background, no further monitoring is required until the next quarterly monitoring period. If the 1-month re-monitoring shows an exceedance, the actions specified in Section c) or e) of this condition shall be taken.
 - e) For any location where monitored Methane concentration equals or exceeds 500 ppm above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Administrator for approval. [40 CFR 63.1960(c)(4)]
13. For the purposes of conditions referencing semi-annual or annual reports, the first semi-annual reporting period is January 1 to June 30 and the report is due on September 1. The second semi-annual reporting period is July 1 to December 31 and the report is due March 1. Information for second reporting period must be included in the annual report. The annual report covers the period from January 1 to December 31 and is due on March 1. Each annual report should clearly identify reporting made during the first and second semi-annual reporting periods. In the event the due date for reporting falls on a weekend or holiday, the report is due on the next business day. All instances of exceedances and deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official and submitted electronically to EPA's CDX [40 CFR 71.6(a)(3), 60.767(i), 63.1981]



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14. The owner or operator shall submit annual and semi-annual reports with the following required information. The owner or operator may fulfill the annual reporting requirement by submitting the two semi-annual reports covering the same period along with a statement or letter indicating as such.

a) Number of times that applicable parameters monitored under 40 CFR 63.1958(b), (c), and (d) were exceeded and when the gas collection and control system was not operating under 40 CFR 63.1958(e), including periods of SSM. For each instance, report the date, time, and duration of each exceedance. For exceedances of wellhead operational standards for temperature, also provide a statement of the standard being complied with.

b) Description and duration of all periods when the gas stream was diverted from the control device or treatment system through a bypass line or the indication of bypass flow as specified under 40 CFR 63.1961.

c) A description and the duration of all periods when all combustion devices were not operating for any period and the length of time all combustion devices were not operating.

d) All periods when the collection system was not operating

e) The location of each exceedance of the 500-ppm methane concentration as provided in 40 CFR 63.1958(d) and the concentration recorded at each location for which an exceedance was recorded in the previous month. For location, the owner or operator shall record the latitude and longitude coordinates of each exceedance using an instrument with an accuracy of at least 4 meters. The coordinates must be in decimal degrees with at least five decimal places.

f) The date of installation and the location of each well or collection system expansion added pursuant to § 63.1960(a)(3) and (4), (b), and (c)(4).

g) For any corrective action analysis for which corrective actions are required in 40 CFR 63.1960(a)(3)(i) or (a)(5) and that take more than 60 days to correct the exceedance, the root cause analysis conducted, including a description of the recommended corrective action(s), the date for corrective action(s) already completed following the positive pressure or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.

h) As required by the enhanced monitoring provisions in 40 CFR 63.1961(a)(5), the owner or operator shall include the results of all monitoring activities conducted during the period.

i) For each monitoring point, report the date, time, and well identifier along with the value and units of measure for oxygen, temperature (wellhead and downwell), methane, and carbon monoxide.

ii) include a summary trend analysis for each well subject to the enhanced monitoring requirements to chart the weekly readings over time for oxygen, wellhead temperature, methane, and weekly or monthly readings over time, as applicable for carbon monoxide.

iii) Include the date, time, staff person name, and description of findings for each visual observation for subsurface oxidation event.

i)The most recent performance test results

[40 CFR 63.1981(h)]



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15. Enhanced Monitoring under 40 CFR 63 Subpart AAAA:
 At each well with a measurement of landfill gas temperature greater than 62.8 degrees, the owner or operator shall implement enhanced monitoring as follows:
- a) Visual observations for subsurface oxidation events (smoke, smoldering ash, damage to well) within the radius of influence of the well.
 - b) Monitor oxygen concentration.
 - c) Monitor temperature of the landfill gas at the wellhead.
 - d) Monitor temperature of the landfill gas every 10 vertical feet of the well.
 - e) Monitor the methane concentration with a methane meter using EPA Method 3C of appendix A-6 to part 60, EPA Method 18 of appendix A-6 to part 60 of this chapter, or a portable gas composition analyzer to monitor the methane levels provided that the analyzer is calibrated and the analyzer meets all quality assurance and quality control requirements for EPA Method 3C or EPA Method 18.
 - f) Monitor and determine carbon monoxide concentrations, as follows:
 - 1) Collect the sample from the wellhead sampling port in a passivated canister or multi-layer foil gas sampling bag (such as the Cali-5-Bond Bag) and analyze that sample using EPA Method 10 of appendix A-4 to part 60 of this chapter, or an equivalent method with a detection limit of at least 100 ppmv of carbon monoxide in high concentrations of methane; or
 - 2) Collect and analyze the sample from the wellhead using EPA Method 10 of appendix A-4 to part 60 to measure carbon monoxide concentrations.
 - 3) When sampling directly from the wellhead, you must sample for 5 minutes plus twice the response time of the analyzer. These values must be recorded. The five 1-minute averages are then averaged to give you the carbon monoxide reading at the wellhead.
 - 4) When collecting samples in a passivated canister or multi-layer foil sampling bag, you must sample for the period of time needed to assure that enough sample is collected to provide five (5) consecutive, 1-minute samples during the analysis of the canister or bag contents, but no less than 5 minutes plus twice the response time of the analyzer. The five (5) consecutive, 1-minute averages are then averaged together to give you a carbon monoxide value from the wellhead.
 - g) The enhanced monitoring described in this condition must begin 7 calendar days after the first measurement of landfill gas temperature greater than 62.8 degrees Celsius (145 degrees Fahrenheit)
 - h) The enhanced monitoring in this condition must be conducted on a weekly basis. If four consecutive weekly carbon monoxide readings are under 100 ppmv, then enhanced monitoring may be decreased to monthly. However, if carbon monoxide readings exceed 100 ppmv again, the landfill must return to weekly monitoring.
 - i) The enhanced monitoring in this condition can be stopped once a higher operating value is approved, at which time the monitoring provisions issued with the higher operating value should be followed, or once the measurement of landfill gas temperature at the wellhead is less than or equal to 62.8 degrees Celsius (145 degrees Fahrenheit).
- [40 CFR 63.1961(a)(5)]
16. For each wellhead with a measurement of landfill gas temperature greater than or equal to 73.9 degrees Celsius (165 degrees Fahrenheit), the owner or operator shall annually monitor temperature of the landfill gas every 10 vertical feet of the well. This temperature can be monitored either with a removable thermometer, or using temporary or permanent thermocouples installed in the well. [40 CFR 63.1961(a)(6)]
17. For any wellhead with a measured landfill gas temperature greater than or equal to 76.7 degrees Celsius and a carbon monoxide concentration greater than or equal to 1000 ppmv, the owner or operator must report the result to the Administrator and the District's compliance division, via email, within 24 hours of the measurement, unless an alternative has been approved by the administrator. [40 CFR 63.1981(k)]



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18. Unless otherwise specified, all records required by this permit must be kept on-site for at least five years from their date of creation. Records may be kept in an electronic format. Off-site records are also acceptable if they are retrievable in under 4 hours.
19. The owner or operator shall maintain up to date the following records on-site:
 - a) The design capacity report which triggered the requirement to comply with 40 CFR 63.1959(b), including a record of the maximum design capacity, the current amount of solid waste in place, the year-by-year waste acceptance rate and any documentation used for recalculation of site-specific density or design capacity.
 - b) Plot map showing each existing and planned collector in the gas collection system and a unique identification location label for each collector. It should also indicate the date and location of all newly installed wells and an indication if they were added as a corrective action required by this permit.
 - c) Description, location, amount and placement date of all non-degradable refuse including asbestos and demolition refuse place in landfill areas which are excluded from landfill gas collection and control as provided by 40 CFR Part 63.1983(d)
 - d) Continuous records of gas flow demonstrating that all collected gas was controlled using a control device operating in compliance with 40 CFR 63.1959(b)(2)(iii). Additionally, for any bypass lines, records of flow or of monthly inspections of bypass line seals.
 - e) Records of any time the gas collection or control device is not operating and records of shutdown of the gas mover system and all valves in the system contributing to venting of the gas to the atmosphere. In the event an affected unit failed to meet an applicable standard of 40 CFR 63.1958(e)(1): (i) the date, time and duration each failure, and cause; (ii) list of affected sources of equipment; (iii) actions taken to minimize emissions in accordance with the general duty to minimize emissions and any corrective actions taken to return the affected unit to normal or usual manner of operation.
 - f) All collection and control system monitoring data for parameters measured in accordance with 40 CFR 63.1961(a)(1)-(6), including monthly gas header pressure, landfill gas temperature and oxygen or nitrogen concentrations.
- [40 CFR 63.1983(a), (c), (g)]
20. For the life of the affected source, the owner or operator shall keep any applicable written procedures for the Continuous Monitoring System quality control program required by 40 CFR 63.8(d)(2) and make this information available upon request to the Administrator. The plan must contain the program of corrective action. If the plan is revised, previous versions must be maintained for at least 5 years. [40 CFR 63.1983(c)(8)].
21. The owner or operator shall keep records of collection and control system exceedances of the operational standards in § 63.1958, including all instances of positive pressure in the gas header or high landfill gas temperature, the reading in the subsequent month, whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 63.1983(e)(1)]
22. The owner or operator shall also keep records of each wellhead temperature monitoring value of 62.8 degrees Celsius (131 degrees Fahrenheit) or above. [40 CFR 63.1983(e)(2)]



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23. The owner or operator shall keep records of all root cause analyses and related information required by this permit for each instance of a positive pressure reading in the gas header or high landfill gas temperature:
- a) For any corrective actions which are corrected no later than 60 days from the date of the initial exceedance, a record of the recommended corrective action(s) taken and the date(s) the action(s) were completed.
 - b) For any corrective actions which are corrected later than 60 days but no later than 120 days from the date of the initial exceedance, the corrective action analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, and, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates.
 - c) For any corrective actions which are not completed within 120 days from the date of the initial exceedance, the root cause analysis conducted, the corrective action analysis, the date for corrective action(s) already completed following the positive pressure reading or high temperature reading, for action(s) not already completed, a schedule for implementation, including proposed commencement and completion dates, and a copy of any comments or final approval on the corrective action analysis or schedule from the Administrator.
- [40 CFR 63.1983(e)]
24. The owner or operator shall keep records of all enhanced monitoring activities as required by the enhanced monitoring provisions in § 63.1961(a)(5) [40 CFR 63.1983(e)(2)(ii)]
25. The owner or operator shall keep a copy of all 24-hour high temperature reports in § 63.1981(k), including a record of the email transmission.[40 CFR 63.1983(e)(2)(iii)]
27. The owner or operator shall maintain, readily accessible records for the life of the control equipment, the control device vendor specifications and the following data as measured during the initial performance test or compliance determination, and for any subsequent performance tests or monitoring for at least 5 years:
- the maximum expected gas generation flow rate as calculated 40 CFR 63.1960(a)(1).
 - The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in § 63.1962(a)(1) and (2).
- [40 CFR 63.1983(b)(1)]
28. The owner or operator shall not add any liquids, other than leachate, to the waste mass of the landfill unless this permit is modified to specify applicable requirements for this activity. [40 CFR 63.1947]
29. The active waste disposal operation shall not exceed the maximum elevation (510 ft MSL) and size (807 acres) limits specified in the Integrated Waste Management Board Permit Number 37-AA-0020. These limits are equivalent to a design capacity of approximately 93,795,600 cubic yards. [NSR]
55. The Permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if the requirements of this subpart have been achieved. Determination of whether a source is operating in compliance with operation and maintenance requirements will be based on information available to the District which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
[40 CFR Subpart AAAA, 63.1955]
56. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.



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B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

30. There shall be no release of dust from any part of the landfill, associated landfill operations, or on-site equipment which exceeds the applicable visible emission standards specified in the District Rules and Regulations. [Rule 50]
31. There shall be no release of odors from any part of the landfill, associated operations or on-site equipment which exceeds the applicable public nuisance standards specified in the District Rules and Regulations. [Rule 51]
32. The landfill, landfill cover, liners, any associated landfill gas collection and control equipment, and any other contrivances used to confine, capture or control landfill gas, leachate or condensate shall be operated and maintained in compliance with the applicable requirements of District Rule 59 and any other applicable District Rules and Regulations. [Rule 59]
33. There shall be no release of leachate or condensate from any part of the landfill cover which results in the discharge of odors, toxic air contaminants, or reactive organic compounds to the atmosphere. [Rule 59]
34. The owner or operator is subject to Title 17 California Code of Regulations (CCR) Division 3, Chapter 1, Subchapter 10, Article 4, SUBARTICLE 6. METHANE EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS (§§ 95460 through 95476 and Appendix I), which includes, but may not be limited to, the requirements cited in this permit. In instances where the language from Title 17 CCR Division 3, Chapter 1, Subchapter 10, Article 4, Subarticle 6 has been summarized or paraphrased in this permit, the actual rule language will take precedent over the language in this permit. [17 CCR § 95461]
35. The owner or operator shall operate the gas collection and control system in accordance with the design plan required by 17 CCR section 95464(a) and the requirements of 95464(b), which includes, but is not limited to, the following:
 - a. Route the collected gas to a gas control device or devices except as provided in 17 CCR sections 95464(d) - well raising, and 95464(e) - Repairs and Temporary Shutdown of Gas Collection System Components;
 - b. So that there is no landfill gas leak that exceeds 500 ppmv, measured as methane, at any component under positive pressure. Measurement for this determination shall be made at a distance of one half of an inch or less for a component source that exceeds 500 parts per million by volume (ppmv), excluding non-repeatable, momentary readings; measurement of leaks from any vault must be taken within 3 inches above the surface of the vault exposed to the atmosphere.

[17 CCR § 95464(b)(1)(B) and the definition of component leak at § 95475];
 - c. So that all the landfill gas is drawn toward the gas control device or devices;
 - d. So that each wellhead remains under vacuum (negative pressure), except under the following conditions:
 - (1) Use of a geomembrane or synthetic cover, provided the owner or operator establishes acceptable pressure limits for the wellheads and includes them in the Design Plan;
 - (2) A decommissioned well;
 - (3) Well raising activities in which new fill is being added or compacted in the immediate vicinity around the well, or a well extension that, once installed, is sealed or capped until the raised well is reconnected to a vacuum source.

[17 CCR §§ 95464(b)(1), 95464(c), 95464(d) and 95475]



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36. Except as provided in sections 95464(d), 95464(e), and 95466, no location on the landfill surface may exceed either of the following concentrations of methane:
- a. 500 ppmv, other than non-repeatable, momentary readings, as determined by instantaneous surface emissions monitoring, measured at a distance of 3 inches above surface as required by § 95471(c)(1)(A);
 - b. An average of 25 ppmv as determined by integrated surface emissions monitoring.
- [17 CCR § 95465]
37. CCR 95465 and associated conditions stated in this permit do not apply to the working face of the landfill or to areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal system, or for law enforcement activities requiring excavation. [17 CCR § 95466]
38. The requirements of 17 CCR sections 95464(b)(1)(A), 95464(b)(1)(B), and 95464(c) and associated conditions stated in this permit do not apply to individual landfill gas collection system components that must be temporarily shut down in order to repair the components, due to catastrophic events such as earthquakes, to connect new landfill gas collection system components to the existing system, to extinguish landfill fires, or to perform construction activities pursuant to section 95466, provided the following requirements are met:
- a. Any new gas collection system components required to maintain compliance with 17 CCR 95464 must be included in the most recent Design Plan pursuant to section 95464(a)(4);
 - b. Methane emissions must be minimized during shutdown pursuant to section 95464(a)(1)(D).
- [17 CCR § 95464(e)(1-2)]
39. The owner or operator must monitor each individual wellhead monthly to determine the gauge pressure. If there is any positive pressure reading other than as provided in 17 CCR sections 95464(d) and 95464(e), the owner or operator must take the following actions:
- a. Initiate corrective action within five calendar days of the positive pressure measurement;
 - b. If the problem cannot be corrected within 15 days of the date the positive pressure was first measured, the owner or operator must initiate further action, including, but not limited to, any necessary expansion of the gas collection system, to mitigate any positive pressure readings;
 - c. Corrective actions, including any expansion of the gas collection and control system, must be completed and any new wells must be operating within 120 days of the date the positive pressure was first measured, or it is a violation.
- [17 CCR § 95469(c)]
40. Components containing landfill gas that are under positive pressure must be monitored quarterly for leaks (not to exceed 500 ppmv as methane pursuant §95464(b)(1)(B)). Any component leak must be tagged and repaired within 10 calendar days, or it is a violation.
- [17 CCR § 95469(b)(3)]



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41. The owner or operator must conduct quarterly surface monitoring in accordance with 17 CCR section 95469 using the equipment and procedures specified in section 95471. Instantaneous surface monitoring shall be conducted using either an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications given at 17 CCR § 95471(a) and using the applicable procedures given at 17 CCR § 95471(c) including, but not limited to, the monitoring grid layout.

[17 CCR § 95469(a)]

42. Instantaneous Surface Monitoring under 17 CCR SUBARTICLE 6: Pursuant to section 95465(a)(1), any landfill surface reading exceeding 500 ppmv, other than non-repeatable, momentary readings, as determined by instantaneous surface emissions monitoring, must be recorded as an exceedance and the following actions taken:

a. The owner or operator must record the date, location, and value of each exceedance, along with re- test dates and results. The location of each exceedance must be clearly marked and identified on a topographic map of the MSW landfill, drawn to scale with the location of both the grids and the gas collection system clearly identified.

b. Corrective action must be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the location must be re-monitored within ten calendar days of a measured exceedance.

(1) If the re-monitoring of the location shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than 10 calendar days after the second exceedance.

(2) If the re-monitoring shows a third exceedance, the owner or owner or operator must install a new or replacement well, unless an alternative solution is identified and approved by the District, as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance, or it is a violation of this subarticle.

c. Any closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that has no monitored exceedances of the 500 ppmv methane limit specified in section 95465(a)(1) after four consecutive quarterly monitoring periods may monitor annually. Any exceedances of this limit detected during the annual monitoring that cannot be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.

d. Any exceedances of the 500 ppmv methane limit specified in section 95465(a)(1) detected during any compliance inspections will result in a return to quarterly monitoring of the landfill.

e. Any instantaneous methane measurement of 200 ppmv or greater must be recorded as a reportable reading pursuant to 17 CCR 95971(a)(1)(D).

[17 CCR §§ 95969(a)(2) and 95971]



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43. Integrated Surface Monitoring under 17 CCR SUBARTICLE 6: Any reading exceeding an average of 25 ppmv as specified in 17 CCR section 95465(a)(2) must be recorded as an exceedance and the following actions must be taken:
- a. The owner or operator must record the average surface concentration measured as methane for each grid along with re-test dates and results. The location of the grids and the gas collection system must be clearly marked and identified on a topographic map of the MSW landfill drawn to scale.
 - b. Within 10 calendar days of a measured exceedance, corrective action must be taken by the owner or operator such as, but not limited to, cover maintenance or repair, or well vacuum adjustments and the grid must be re-monitored.
- (1) If the re-monitoring of the grid shows a second exceedance, additional corrective action must be taken and the location must be re-monitored again no later than 10 calendar days after the second exceedance.
- (2) If the re-monitoring in section 95469(a)(2)(B)1. shows a third exceedance, the owner or operator must install a new or replacement well as determined to achieve compliance no later than 120 calendar days after detecting the third exceedance, or it is a violation of this subarticle.
- c. Any closed or inactive MSW landfill, or any closed or inactive areas on an active MSW landfill that has no monitored exceedances of the limit specified in section 95465(a)(2) after 4 consecutive quarterly monitoring periods may monitor annually. Any exceedances of the limits specified in section 95465(a)(2) detected during the annual monitoring that cannot be remediated within 10 calendar days will result in a return to quarterly monitoring of the landfill.
 - d. Any exceedances of the limits specified in section 95465(a)(2) detected during any compliance inspections will result in a return to quarterly monitoring of the landfill.
- [17 CCR § 95969(a)(2)]
44. An owner or operator of a closed or inactive MSW landfill, or any closed or inactive area on an active MSW landfill, that can demonstrate that in the three years before the effective date of this subarticle that there were no measured exceedances of the limits specified in section 95465 by annual or quarterly monitoring may monitor annually. Any exceedances of the surface methane emission limits specified in section 95465 detected during the annual monitoring that cannot be remediated within 10 calendar days will result in a return to quarterly monitoring.
- [17 CCR § 95469(a)(3)]



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45. Alternate compliance options: The owner or operator may request alternatives to the compliance measures, monitoring requirements, test methods and procedures of sections 95464, 95469, and 95471. Any alternatives requested by the owner or operator must be submitted in writing to the Control Officer of the Air Pollution Control District, San Diego County. Alternative compliance option requests may include, but are not limited to, the following:
- a. Semi-continuous operation of the gas collection and control system due to insufficient landfill gas flow rates.
 - b. Additional time allowance for leak repairs for landfills having consistent issues related to the procurement and delivery of necessary parts to complete the repair, or adverse weather conditions that impede repair work.
 - c. Alternative wind speed requirements for landfills consistently having winds in excess of the limits specified in this subarticle.
 - d. Alternative walking patterns to address potential safety and other issues, such as: steep or slippery slopes, monitoring instrument obstructions, and physical obstructions.
 - e. Exclusion of construction areas and other dangerous areas from landfill surface inspection.
 - f. Exclusion of paved roads that do not have any cracks, potholes, or other penetrations from landfill surface inspection.
- [17 CCR § 95468(a)]
46. Recordkeeping - five-year retention, 17 CCR SUBARTICLE 6: In addition to any other records required by this permit, the owner or operator must maintain the following records for at least five (5) years:
- a. All gas collection system downtime exceeding five calendar days, including individual well shutdown and disconnection times, and the reason for the downtime.
 - b. All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown.
 - c. Expected gas generation flow rate calculated pursuant to section 95471(e) - 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories, Chapter 3, using a recovery rate of 75%.
 - d. Records of all instantaneous surface readings of 200 ppmv or greater; all exceedances of the limits in sections 95464(b)(1)(B) or 95465, including the location of the leak (or affected grid), leak concentration in ppmv, date and time of measurement, the action taken to repair the leak, date of repair, any required re-monitoring and the re-monitored concentration in ppmv, and wind speed during surface sampling; and the installation date and location of each well installed as part of a gas collection system expansion.
 - e. Records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken.
 - f. Annual solid waste acceptance rate and the current amount of waste-in-place.
 - g. Records of the nature, location, amount, and date of deposition of non-degradable waste for any landfill areas excluded from the collection system.
 - h. Results of any source tests conducted pursuant to section 95464(b)(4).
 - I. Records describing the mitigation measures taken to prevent the release of methane or other emissions into the atmosphere:



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- (1) When solid waste was brought to the surface during the installation or preparation of wells, piping, or other equipment;
- (2) During repairs or the temporary shutdown of gas collection system components;
- (3) When solid waste was excavated and moved.

j. Records of any construction activities pursuant to section 95466. The records must contain the following information:

- (1) A description of the actions being taken, the areas of the MSW landfill that will be affected by these actions, the reason the actions are required, and any landfill gas collection system components that will be affected by these actions.
- (2) Construction start and finish dates, projected equipment installation dates, and projected shut down times for individual gas collection system components.
- (3) A description of the mitigation measures taken to minimize methane emissions and other potential air quality impacts.

k. Records of the equipment operating parameters specified to be monitored under sections 95469(b)(1) and 95469(b)(2) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:

For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with sections 95464(b)(2) and 95464(b)(3)(A) was determined.

[17 CCR § 95470 (a)(1)]

47. Recordkeeping - retention for life of control device, 17 CCR SUBARTICLE 6: The owner or operator must maintain the following records for the life of each gas control device:

- a. The control device vendor specifications.
- b. The expected gas generation flow rate as calculated pursuant to section 95471(e).
- c. The percent reduction of methane achieved by the control device determined pursuant to section 95471(f).
- d. For an open flare: the flare type (i.e., steam-assisted, air-assisted, or non-assisted); all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determination made during the performance test as specified in 40 CFR§ 60.18 (as last amended 73 Fed. Reg. 78209 (December 22, 2008), which is incorporated by reference herein; and records of the flare pilot flame or flare flame monitoring and records of all period of operation during which the pilot flame or the flare flame is absent.

[17 CCR §95470(a)(3)]



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48. Annual Report: Except as given in 17 CCR section 95463, the owner or operator must prepare an annual report for the period of January 1 through December 31 of each year. Each annual report must be submitted to the District by March 15 of the following year and must contain the following information:
1. MSW landfill name, owner and operator, address, and solid waste information system (SWIS) identification number.
 2. Total volume of landfill gas collected (reported in standard cubic feet).
 3. Average composition of the landfill gas collected over the reporting period (reported in percent methane and percent carbon dioxide by volume).
 4. Gas control device type, year of installation, rating, fuel type, and total amount of landfill gas combusted in each control device.
 5. The date that the gas collection and control system was installed and in full operation.
 6. The percent methane destruction efficiency of each gas control device(s).
 7. Type and amount of supplemental fuels burned with the landfill gas in each device.
 8. Total volume of landfill gas shipped off-site, the composition of the landfill gas collected (reported in percent methane and percent carbon dioxide by volume), and the recipient of the gas.
 - l. Most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface.
 - j. The information records cited herein and required by sections 95470(a)(1)(A), 95470(a)(1)(B), 95470(a)(1)(C), 95470(a)(1)(D), 95470(a)(1)(E), and 95470(a)(1)(F), 95470(a)(1)(H), and 95470(a)(1)(K). [17 CCR § 95470(b)(3)].
49. Waste-in-Place Report: If the MSW landfill contains less than 450,000 tons of waste-in-place, or the landfill contains 450,000 tons or more of waste-in-place and landfill gas recovery reaches or exceeds 3.0 MMBtu/hr, as given by section 95463(a) or section 95643(b)(2)(B)3., the owner or operator must report the following information to the District:
- a. MSW landfill name, owner and operator, address, and solid waste information system (SWIS) identification number.
 - b. The landfill's status (active, closed, or inactive) and the estimated waste-in-place, in tons.
 - c. Most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface.
- [17 CCR § 95470(b)(4)]
50. Any report, or information submitted pursuant to 17 CCR subarticle 6 must contain certification by a responsible official of truth, accuracy, and completeness. This certification, and any other certification required under this subarticle, must state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [17 CCR § 95470(b)(6)]
51. Each part of 17 CCR Subarticle 6 is deemed severable, and in the event that any part of this subarticle is held to be invalid, the remainder of this subarticle continues in full force and effect. [17 CCR § 95476]
52. The owner or operator shall not accept waste at the Landfill or deposit waste at the active face of the Landfill on the following holidays: Memorial Day, Independence Day, and Labor Day, except in the case of a public emergency including, but not limited to, an extraordinary fire, flood, storm, epidemic, pandemic, or other disaster. [Rule 51]
53. From October 15th through May 1st each year during the term of this Order, the owner or operator shall use a slope fill to deposit waste instead of a horizontal (pancake lift) fill in order to minimize the active face and reduce the area of exposed waste. [Rule 51]



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54. The owner or operator shall use nonreusable geosynthetic sheeting as Alternative Daily Cover, as described herein.
- The owner or operator shall use nonreusable geosynthetic sheeting for Alternative Daily Cover at the active face of the Landfill, contingent upon written regulatory approval from LEA, and shall continue using such cover system between October 1 and May 1 each year the landfill is active.
- In the unanticipated event that the owner or operator cannot utilize the cover deployer machine due to any of the following: (i) the deployer machine experiences mechanical issues that render it non-operational, (ii) the nonreusable geosynthetic sheeting is commercially unavailable; or (iii) inclement weather prohibits the use of the deployer machine, the owner or operator may utilize daily cover or alternative daily cover at the active face of the Landfill as approved by the LEA. Tarps utilized in these instances shall be in good condition and generally impermeable as originally manufactured. [Rule 51]
57. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
58. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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San Diego City Environmental Services
 Deputy Director Disposal & Environment
 9601 Ridgehaven Ct #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego/Environmental
 Landfill Program Manager
 5180 Convoy St
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

San Diego City Environmental Services Dept Deputy Director WRAP 9601 Ridgehaven Ct #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

Prime Diesel Engine:
 Manufacturer: Perkins,
 Model: 1204F-E44TTAG2,
 Serial Number: MU82589*U024615F,
 Maximum rated (prime) horsepower: 157.4 bhp,
 Engine Family Number: LPKXL04.4MUI,
 Model Year: 2020,
 Tier 4 certified.
 Driving a wood screen.
 ATCM Portable

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34G] Engine for Non-Emergency and Non-Cogeneration Operation
 BEC: APCD2014-CON-000768

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. This engine shall not be operated more than 1800 hours per year. [NSR]
2. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
3. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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7. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.
 Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
 (Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)
10. All records required by this permit shall be kept for a minimum of 60 months from their date of creation unless otherwise indicated by the conditions of this permit. These records shall be maintained onsite for a minimum of 36 months from their date of creation. The remaining 24 months of records may be retained off site. Records kept off site shall be made available to the Air Pollution Control District within 5 working days of request.
 [Rules 69.4.1 or 17 CCR 93115 or 17 CCR 93116 or 40 CFR 63 subpart ZZZZ].
11. Effective January 1, 2012, the Responsible Official of a fleet shall maintain on a calendar year basis a record of the total hours of operation for each portable engine. These records shall be maintained at a central place of business for five years from their date of creation. The records shall clearly identify each portable engine subject to the recordkeeping requirement as well as the annual hours of operation. These records shall be made available, upon request, to the District or CARB personnel and provided within ten business days of the request. [NSR; Rule 21]
16. Days when a portable emission unit is stored in a designated holding or storage area shall not be counted towards the above time limits, provided the emission unit was not operated on that calendar day except for maintenance and was in the designated holding or storage area the entire calendar day. [NSR; Rule 21]
17. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

4. This engine shall use only carb diesel fuel. (Rule 69.4.1, 17 CCR 93116)
5. A non-resettable engine hour meter and/or non-resettable totalizing fuel meter shall be installed on this engine, maintained in good working order and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within in 10 calendar days. The written notifications shall include the following information:
 - a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.
 A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)



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Sectors: 4, M
Site ID: APCD1989-SITE-07515
App ID: APCD2021-APP-006837

PERMIT ID
APCD2013-PTO-001898


6. The owner or operator of this engine shall conduct periodic inspections of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. (Rule 69.4.1)
8. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - a. documentation shall be maintained identifying the fuel as carb diesel.
 - b. manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company.These records shall be made available to the Air Pollution Control District upon request. (Rule 69.4.1)(17 CCR 93116)
9. The owner or operator of the engine shall maintain records of periodic inspection and maintenance of the engine and control equipment, including dates inspection and maintenance were performed. [Rule 69.4.1]
12. This engine, as part of the fleet that it is included in, shall comply with the fleet averaging standards of 17CCR 93116. A copy of the most recent compliance statement submitted to the California Air Resources Board under 17CCR 93116 shall be provided to District personnel upon request. (17CCR 93116)
13. The Responsible Official of a fleet shall provide the following reports to the CARB Executive Officer:
 - a. By March 1st of each calendar year submit a report including the permit or registration number of each low-use engine; hour meter readings at the beginning and end of the previous calendar year for each low use engine.
 - b. For large fleets subject to section 93116.3(c)(2), a statement of compliance that the fleet standards are being achieved and a summary that identifies each portable engine registration number, bhp rating, engine family name, serial number, year of manufacture and the associated emission rate (g/bhp-hr). Alternative-fueled engines must be identified by fuel type.The statements of compliance are due to the Executive Officer at the following times:
 - i. Upon application to add an engine to the fleet for any Tier 1 engine, Tier 2 engine, Tier 3 engine, including flexibility engines built to those standards.
 - ii. Upon a request to remove a Tier 4 interim engine or a Tier 4 final engine from a fleet, except for engine dealers and rental businesses.
 - iii. March 1, 2020, for the fleet standards that become effective January 1, 2020; and
 - iv. March 1, 2023, for the fleet standards that become effective January 1, 2023; and
 - v. March 1, 2027 for the fleet standards that become effective January 1, 2027.(17 CCR 93116.4)
14. An emission unit is not portable if any of the following apply :

The unit, or its replacement, is attached to a foundation or, if not so attached, will reside at the same location for more than 12 consecutive months; or

The emission unit remains or will reside at a location for less than 12 consecutive months if the unit is located at a seasonal source and operates during the full annual operating period of the seasonal source; or

The emission unit is moved from one location to another in an attempt to circumvent the portable emission unit residence time requirements. [17 CCR 93116]
15. For the purposes of conditions referring to 17 CCR 93116, location shall be defined as any single site at a building, structure, facility, or installation. [17 CCR 93116]
18. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
19. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
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Sectors: 4, M
Site ID: APCD1989-SITE-07515
App ID: APCD2013-APP-002869

PERMIT ID
APCD2014-PTO-001913


San Diego City Environmental Services
 Deputy Director Disposal & Environment
 9601 Ridgehaven Ct #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego/Environmental
 Landfill Program Manager
 5180 Convoy St
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

San Diego City Environmental Services Dept Deputy Director WRAP 9601 Ridgehaven Ct #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

Prime-Use Diesel Engine (ATCM Portable): Caterpillar; Model C27; Serial Number RAM00189; 1050 bhp; Model Year 2013 EPA Certified, Tier 4i, Engine Family Number DCPXL27.0HZA; Powering a Tub Grinder

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration
 BEC: APCD2012-CON-000765

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. This engine shall not be operated more than 5000 hours per year. [NSR; Rule 21]
2. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
3. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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8. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
- 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.
- Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
 (Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)
9. All operational and maintenance logs and fuel use and type and purchase records required by this permit shall be kept for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. The records shall be maintained onsite for a minimum of 24 months from their date of creation. Records for the last 24 months of operations shall be made available to the Air Pollution Control District upon request. Records for operation for the last 25 to 36 months shall be made available to the Air Pollution Control District within 5 working days of request. [NSR; Rule 21]
10. Effective January 1, 2012, the Responsible Official of a fleet shall maintain on a calendar year basis a record of the total hours of operation for each portable engine. These records shall be maintained at a central place of business for five years from their date of creation. The records shall clearly identify each portable engine subject to the recordkeeping requirement as well as the annual hours of operation. These records shall be made available, upon request, to the District or CARB personnel and provided within ten business days of the request. [NSR; Rule 21]
16. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

4. This engine shall use only carb diesel fuel. (Rule 69.4.1, 17 CCR 93116)
5. A non-resettable engine hour meter and/or non-resettable totalizing fuel meter shall be installed on this engine, maintained in good working order and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within in 10 calendar days. The written notifications shall include the following information:
- a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.
- A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)
6. Engine owners or operators shall conduct periodic inspections of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. [Rule 69.4.1]



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Sectors: 4, M
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7. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - a. documentation shall be maintained identifying the fuel as carb diesel.
 - b. manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company; and
 - c. records of annual engine maintenance including date the maintenance was performed.These records shall be made available to the Air Pollution Control District upon request. (Rule 69.4.1)(17 CCR 93116)
11. This engine, as part of the fleet that it is included in, shall comply with the fleet averaging standards of 17CCR 93116. A copy of the most recent compliance statement submitted to the California Air Resources Board under 17CCR 93116 shall be provided to District personnel upon request. (17CCR 93116)
12. The Responsible Official of a fleet shall provide the following reports to the CARB Executive Officer:
 - a. By March 1st of each calendar year submit a report including the permit or registration number of each low-use engine; hour meter readings at the beginning and end of the previous calendar year for each low use engine.
 - b. For large fleets subject to section 93116.3(c)(2), a statement of compliance that the fleet standards are being achieved and a summary that identifies each portable engine registration number, bhp rating, engine family name, serial number, year of manufacture and the associated emission rate (g/bhp-hr). Alternative-fueled engines must be identified by fuel type.
The statements of compliance are due to the Executive Officer at the following times:
 - i. Upon application to add an engine to the fleet for any Tier 1 engine, Tier 2 engine, Tier 3 engine, including flexibility engines built to those standards.
 - ii. Upon a request to remove a Tier 4 interim engine or a Tier 4 final engine from a fleet, except for engine dealers and rental businesses.
 - iii. March 1, 2020, for the fleet standards that become effective January 1, 2020; and
 - iv. March 1, 2023, for the fleet standards that become effective January 1, 2023; and
 - v. March 1, 2027 for the fleet standards that become effective January 1, 2027.(17 CCR 93116.4)
13. An emission unit is not portable if any of the following apply :
The unit, or its replacement, is attached to a foundation or, if not so attached, will reside at the same location for more than 12 consecutive months; or
The emission unit remains or will reside at a location for less than 12 consecutive months if the unit is located at a seasonal source and operates during the full annual operating period of the seasonal source; or
The emission unit is moved from one location to another in an attempt to circumvent the portable emission unit residence time requirements. [17 CCR 93116]
14. For the purposes of conditions referring to 17 CCR 93116, location shall be defined as any single site at a building, structure, facility, or installation. [17 CCR 93116]
15. Days when a portable emission unit is stored in a designated holding or storage area shall not be counted towards the above time limits, provided the emission unit was not operated on that calendar day except for maintenance and was in the designated holding or storage area the entire calendar day.
17. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
18. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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Sectors: 4, M
Site ID: APCD1989-SITE-07515
App ID: APCD2014-APP-003577

PERMIT ID
APCD2015-PTO-002461


San Diego City Environmental Services
 Deputy Director Disposal & Environment
 9601 Ridgehaven Ct #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego/Environmental
 Landfill Program Manager
 5180 Convoy St
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

San Diego City Environmental Services Dept Deputy Director WRAP 9601 Ridgehaven Ct #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

Prime Use Diesel Engine (ATCM Portable): Caterpillar, Model C32; Serial Number NST 00140; 1200 bhp; Model Year 2014, EPA Tier 4 Final Certified, Engine Family Number ECPXL32.0HZA, Powering a Tub Grinder

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration
 BEC: APCD2015-CON-001089

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. This engine shall not be operated more than 10 hours per day. [NSR]
2. This engine shall not be operated more than 2940 hours per year. [NSR]
3. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
4. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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8. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.
 Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
 (Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)
10. All records required by this permit shall be kept for a minimum of 60 months from their date of creation unless otherwise indicated by the conditions of this permit. These records shall be maintained onsite for a minimum of 36 months from their date of creation. The remaining 24 months of records may be retained off site. Records kept off site shall be made available to the Air Pollution Control District within 5 working days of request.
 [Rules 69.4 or 69.4.1 or 17 CCR 93115 or 17 CCR 93116 or 40 CFR 63 subpart ZZZZ].
11. Effective January 1, 2012, the Responsible Official of a fleet shall maintain on a calendar year basis a record of the total hours of operation for each portable engine. These records shall be maintained at a central place of business for five years from their date of creation. The records shall clearly identify each portable engine subject to the recordkeeping requirement as well as the annual hours of operation. These records shall be made available, upon request, to the District or CARB personnel and provided within ten business days of the request. [Rule 21]
17. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District. [Rule 19]

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

5. This engine shall use only CARB diesel fuel. (Rule 69.4.1, 17 CCR 93116)
6. A non-resettable engine hour meter and/or non-resettable totalizing fuel meter shall be installed on this engine, maintained in good working order and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's compliance division shall be notified in writing within 10 calendar days. The written notifications shall include the following information:
 - a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.
 A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)
7. The owner or operator of this engine shall conduct periodic inspections of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. (Rule 69.4.1)



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Sectors: 4, M
Site ID: APCD1989-SITE-07515
App ID: APCD2014-APP-003577

PERMIT ID
APCD2015-PTO-002461


9. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - a. documentation shall be maintained identifying the fuel as carb diesel.
 - b. manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company;
 - c. records of periodic inspections, including the date the inspection was performed; and
 - d. records of annual engine maintenance, including the date the maintenance was performed and the nature of the maintenance.
 These records shall be made available to the Air Pollution Control District upon request. (Rule 69.4.1)(17 CCR 93116)

12. This engine, as part of the fleet that it is included in, shall comply with the fleet averaging standards of 17CCR 93116. A copy of the most recent compliance statement submitted to the California Air Resources Board under 17CCR 93116 shall be provided to District personnel upon request. (17CCR 93116)

13. The Responsible Official of a fleet shall provide the following reports to the CARB Executive Officer:
 - a. By March 1st of each calendar year submit a report including the permit or registration number of each low-use engine; hour meter readings at the beginning and end of the previous calendar year for each low use engine.
 - b. For large fleets subject to section 93116.3(c)(2), a statement of compliance that the fleet standards are being achieved and a summary that identifies each portable engine registration number, bhp rating, engine family name, serial number, year of manufacture and the associated emission rate (g/bhp-hr). Alternative-fueled engines must be identified by fuel type.
 The statements of compliance are due to the Executive Officer at the following times:
 - i. Upon application to add an engine to the fleet for any Tier 1 engine, Tier 2 engine, Tier 3 engine, including flexibility engines built to those standards.
 - ii. Upon a request to remove a Tier 4 interim engine or a Tier 4 final engine from a fleet, except for engine dealers and rental businesses.
 - iii. March 1, 2020, for the fleet standards that become effective January 1, 2020; and
 - iv. March 1, 2023, for the fleet standards that become effective January 1, 2023; and
 - v. March 1, 2027 for the fleet standards that become effective January 1, 2027.
 (17 CCR 93116.4)

14. An emission unit is not portable if any of the following apply :

The unit, or its replacement, is attached to a foundation or, if not so attached, will reside at the same location for more than 12 consecutive months; or

The emission unit remains or will reside at a location for less than 12 consecutive months if the unit is located at a seasonal source and operates during the full annual operating period of the seasonal source; or

The emission unit is moved from one location to another in an attempt to circumvent the portable emission unit residence time requirements. [17 CCR 93116]

15. For the purposes of conditions referring to 17 CCR 93116, location shall be defined as any single site at a building, structure, facility, or installation. [17 CCR 93116]

16. Days when a portable emission unit is stored in a designated holding or storage area shall not be counted towards the above time limits, provided the emission unit was not operated on that calendar day except for maintenance and was in the designated holding or storage area the entire calendar day.

18. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.

19. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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Sectors: 4, M
Site ID: APCD1989-SITE-07515
App ID: APCD2021-APP-006835

PERMIT ID
APCD2019-PTO-003354


City of San Diego
 9601 Ridgehaven Court, Ste 310
 San Diego CA, 92123-1686

EQUIPMENT ADDRESS
 Miramar Landfill
 Luis Campos
 5180 Convoy Street
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

City of San Diego 9601 Ridgehaven Court, Ste 310, San Diego, CA 92123-1686

EQUIPMENT DESCRIPTION

Prime Diesel Engine: Caterpillar,
 Model C4.4,
 S/N J9G01265;
 Model Year 2020;
 Engine Family MPKXL04.4SUI;
 Tier 4 certified;
 173.5 bhp rated; driving a 100 kW generator.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34G] Engine for Non-Emergency and Non-Cogeneration Operation
 BEC: APCD2019-CON-001575

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

- Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)



COUNTY OF SAN DIEGO, AIR POLLUTION CONTROL DISTRICT
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PERMIT ID
APCD2019-PTO-003354


3. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
 (a) old meter's hour reading,
 (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and
 (c) copy of receipt of new meter or of installation work order.
 A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
 (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)

5. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 2) Inspect and clean air filters, replacing as necessary; and
 3) Inspect all hoses and belts, replacing as necessary.
 Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
 (Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)

8. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

1. This engine shall use only carb diesel fuel. (Rule 69.4.1, 17 CCR 93116)
4. The owner or operator of this engine shall conduct periodic inspections of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. (Rule 69.4.1)
6. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - a. documentation shall be maintained identifying the fuel as carb diesel.
 - b. manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company;
 - c. records of periodic inspections, including the date the inspection was performed; and
 - d. records of annual engine maintenance, including the date the maintenance was performed.
 These records shall be made available to the Air Pollution Control District upon request. (Rule 69.4.1)(17 CCR 93116)



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7. An emission unit is not portable if any of the following apply :
The unit, or its replacement, is attached to a foundation or, if not so attached, will reside at the same location for more than 12 consecutive months; or
The emission unit remains or will reside at a location for less than 12 consecutive months if the unit is located at a seasonal source and operates during the full annual operating period of the seasonal source; or
The emission unit is moved from one location to another in an attempt to circumvent the portable emission unit residence time requirements. [17 CCR 93116]
9. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
10. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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Sectors: 4, J
Site ID: APCD1989-SITE-07515
App ID: APCD2022-APP-007492

PERMIT ID
APCD2024-PTO-004825

City of San Diego, Environmental Svcs,
 Deputy Director WRAP
 9601 Ridgehaven Ct, Suite #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego, Environmental
 Luis Campos
 5180 Convoy Street
 San Diego CA 92123

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

City of San Diego, Environmental Svcs, Disposal & Env. Protection Deputy Director WRAP 9601 Ridgehaven Ct, Suite #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

Prime Diesel Engine:
 Make: Caterpillar,
 Model: C32,
 S/N: BT400599,
 Maximum Horsepower Rating: 1200 bhp,
 Model Year: 2022,
 EPA Certification: Tier 4 Final, Engine family NCPXL32.0HXG;
 Driving an exempt track-mounted horizontal grinder.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration
 BEC: APCD2024-CON-002085

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. Engine operation shall not exceed 10 hours per day and 3,640 hours per calendar year, as evidenced by operational log records. Engine hours of operation based on actual readings of the engine hour meter shall be recorded on each day of engine usage. (Rule 20.2, Rule 1200)
2. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
3. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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7. Periodic maintenance of the engine and add-on control equipment, if any, shall be conducted as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary;
 - 3) Inspect all hoses and belts, replacing as necessary; and
 - 4) Inspect spark plugs, if equipped, replacing as necessary.
 Documentation of oil and filter changes or copies of the oil test analysis shall be made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine. For engines owned by the permit holder or operator the maintenance records shall be maintained on-site. For rental engines, maintenance records shall be provided within 5 business days of request. (Rule 12 and/or Rule 69.4.1 and/or 40 CFR 63 Subpart ZZZZ).

11. All records required by this permit shall be kept for a minimum of 60 months from their date of creation unless otherwise indicated by the conditions of this permit. These records shall be maintained onsite for a minimum of 36 months from their date of creation. The remaining 24 months of records may be retained off site. Records kept off site shall be made available to the Air Pollution Control District within 5 working days of request. [Rules 69.4.1 or 17 CCR 93115 or 17 CCR 93116 or 40 CFR 63 subpart ZZZZ].

12. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

4. This engine shall use only CARB diesel fuel. (Rule 62, 69.4.1)

5. A non-resettable engine hour meter and/or non-resettable totalizing fuel meter shall be installed on this engine, maintained in good working order and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's compliance division shall be notified in writing within in 10 calendar days. The written notifications shall include the following information:
 - a. old meter's reading.
 - b. replacement meter's manufacturer name, model and serial number if available and current reading on replacement meter; and
 - c. copy of receipt of new meter or of installation work order.
 A copy of the meter replacement notification shall be maintained on site and made available to the Air Pollution Control District upon request. (Rule 69.4.1)

6. The owner or operator of this engine shall conduct periodic inspections of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. (Rule 69.4.1)

8. The owner or operator of the engine shall maintain records of periodic inspection and maintenance of the engine and control equipment, including dates inspection and maintenance were performed. [Rule 69.4.1]

9. The owner or operator of the engine shall maintain a manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company on site for at least the same period of time as the engine to which the records apply is located at the site. [Rule 69.4.1]



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10. The owner or operator shall maintain documentation identifying all fuel used in this engine as CARB diesel or an alternative fuel meeting the requirements of 17 CCR 93116.3(a) and with a sulfur content not to exceed 15 ppm sulfur by weight. These records shall be kept on site for at least the same period of time as the engine to which the records apply is located at the site. [Rule 69.4.1 and/or 17 CCR 93116]
13. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
14. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)



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Sectors: 4, M
Site ID: APCD1989-SITE-07515
App ID: APCD2025-APP-008615

PERMIT ID
APCD2025-PTO-005260

San Diego City Environmental Services
 Deputy Director Disposal & Environment
 9601 Ridgehaven Ct #310
 San Diego CA, 92123

EQUIPMENT ADDRESS
 City of San Diego/Environmental
 Landfill Program Manager
 5180 Convoy St
 San Diego CA 92111

PERMIT TO OPERATE

This permit is not valid until required fees are received by the District.

The above is hereby granted a Permit To Operate the article, machine, equipment or contrivance described below. This permit is not transferable to a new owner nor is it valid for operation of the equipment at another location except as specified. This Permit To Operate or copy must be posted on or within 25 feet of the equipment, or readily available on the operating premises.

EQUIPMENT OWNER

San Diego City Environmental Services Dept Deputy Director WRAP 9601 Ridgehaven Ct #310, San Diego, CA 92123

EQUIPMENT DESCRIPTION

Prime Diesel Engine:
 Make: Caterpillar;
 Model: C3.6;
 S/N: J3706903;
 Maximum Horsepower Rating: 134 BHP;
 Model Year: 2022;
 EPA Certification: Tier 4 Final;
 Engine Family: NPKXL03.6FX1;
 Powering trommel screen.
 2.5-inch diameter horizontal exhaust with open endpoint, exhausting 6.5 ft. above ground.

Every person who owns or operates this equipment is required to comply with the conditions listed below and all applicable requirements and District rules, including but not limited to Rules 10, 20, 40, 50, 51.

Fee Schedules: 1 [34D] Engine for Non-Emergency & Non-Cogeneration
 BEC: APCD2022-CON-001952

FAILURE TO OPERATE IN COMPLIANCE IS A MISDEMEANOR SUBJECT TO CIVIL AND CRIMINAL PENALTIES

A. FEDERALLY-ENFORCEABLE AND DISTRICT-ENFORCEABLE CONDITIONS

1. This engine shall only use CARB diesel fuel. (Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII)
2. Visible emissions including crank case smoke shall comply with Air Pollution Control District Rule 50. (Rule 50)
3. The equipment described above shall not cause or contribute to a public nuisance. (Rule 51)



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4. A non-resettable engine hour meter shall be installed on this engine, maintained in good working order, and used for recording engine operation hours. If a meter is replaced, the Air Pollution Control District's Compliance Division shall be notified in writing within 10 calendar days. The written notification shall include the following information:
 - (a) old meter's hour reading,
 - (b) replacement meter's manufacturer name, model and serial number if available and current hour reading on replacement meter, and
 - (c) copy of receipt of new meter or of installation work order.A copy of the meter replacement notification shall be maintained onsite and made available to the Air Pollution Control District upon request.
(Rule 12, Rule 69.4.1, 17 CCR 93115, 40 CFR 60 Subpart IIII, 40 CFR 63 Subpart ZZZZ)
6. The owner or operator of this engine shall conduct periodic maintenance of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. Maintenance shall be conducted at least once each calendar year, and shall include, but is not limited to, the following:
 - 1) Change oil and filter, or test in accordance with the requirements of 40 CFR §63.6625(i) or (j);
 - 2) Inspect and clean air filters, replacing as necessary; and
 - 3) Inspect all hoses and belts, replacing as necessary.Documentation of oil and filter changes or copies of the oil test analysis shall be kept on site and made available upon request. If testing in accordance with 40 CFR §63.6625(i) or (j), the oil analysis program must analyze the Total Base Number, viscosity and percent water content (for compression ignition engines) and the Total Acid Number, viscosity and percent water content (for spark ignited engines). If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.
(Rule 12, Rule 69.4.1, 40 CFR 63 Subpart ZZZZ)
9. All records required by this permit shall be maintained on site and readily available for District inspection for a minimum of 36 months from their date of creation unless otherwise indicated by the conditions of this permit. (Rule 12, Rule 69.4.1, 40 CFR 60 Subpart IIII)
10. Access, facilities, utilities and any necessary safety equipment for source testing and inspection shall be provided upon request of the Air Pollution Control District.

B. DISTRICT-ONLY ENFORCEABLE CONDITIONS

5. The owner or operator of this engine shall conduct periodic inspections of the engine and add-on control equipment, if any, as recommended by the engine and control equipment manufacturers or as specified by the engine servicing company's maintenance procedures. The periodic inspections shall be conducted at least once every 4000 hours of operation, or every six months, whichever occurs first. (Rule 69.4.1)
7. The owner or operator of the engine shall maintain the following records on site for at least the same period of time as the engine to which the records apply is located at the site:
 - (a) documentation shall be maintained identifying the fuel as CARB diesel.
 - (b) manual of recommended maintenance provided by the manufacturer, or maintenance procedures specified by the engine servicing company; and
 - (c) records of annual engine maintenance including date the maintenance was performed.These records shall be made available to the Air Pollution Control District upon request.
(Rule 69.4.1)(17 CCR 93115)
8. The owner or operator of the engine shall maintain records of periodic inspection and maintenance of the engine and control equipment, including dates inspection and maintenance were performed. [Rule 69.4.1]



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11. This Air Pollution Control District Permit does not relieve the holder from obtaining permits or authorizations required by other governmental agencies.
12. The permittee shall, upon determination of applicability and written notification by the District, comply with all applicable requirements of the Air Toxics "Hot Spots" Information and Assessment Act (California Health and Safety Code Section 44300 et seq.)