



APR 16 2012

Floyd Davis
Fairmead Landfill
2037 W. Cleveland
Madera, CA 93637

**Re: Notice of Final Action - Title V Permit
District Facility # C-2913
Project # C-1070141**


Dear Mr. Davis:

The District has issued the Final Title V Permit for Fairmead Landfill. The preliminary decision for this project was made on 11/9/11. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

Thank you for your cooperation in this matter. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

Sincerely,



David Warner
Director of Permit Services

Attachments

cc: John Yoshimura, Permit Services Engineer

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
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Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585



APR 16 2012

Gerardo C. Rios, Chief
Permits Office (AIR-3)
U.S. EPA - Region IX
75 Hawthorne St
San Francisco, CA 94105

**Re: Notice of Final Action - Title V Permit
District Facility # C-2913
Project # C-1070141**

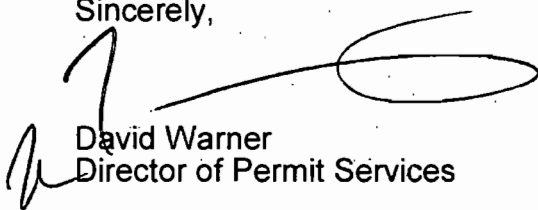
Dear Mr. Rios:

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The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. We appreciate your concurrence with this action. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

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APR 16 2012

Mike Tollstrup, Chief
Project Assessment Branch
Air Resources Board
P O Box 2815
Sacramento, CA 95812-2815

**Re: Notice of Final Action - Title V Permit
District Facility # C-2913
Project # C-1070141**

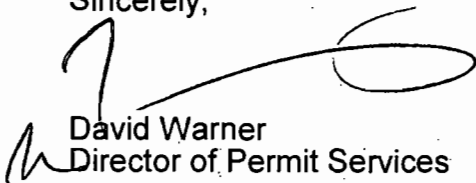
Dear Mr. Tollstrup:

The District has issued the Final Title V Permit for Fairmead Landfill. The preliminary decision for this project was made on 11/9/11. A summary of the comments and the District's response to each comment is included as an attachment to the engineering evaluation. These permits address all deficiencies cited by the EPA in their objection.

The public notice for issuance of the Final Title V Permit will be published approximately three days from the date of this letter.

I would like to thank you and your staff for working with us. Should you have any questions, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900.

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Fresno Bee

**SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT
NOTICE OF FINAL DECISION TO ISSUE
FEDERALLY MANDATED OPERATING PERMIT**

NOTICE IS HEREBY GIVEN that the San Joaquin Valley Air Pollution Control District has made its final decision to issue the initial Federally Mandated Operating Permit to Fairmead Landfill for its sanitary landfill located at 21739 Road 19, Madera, California.

The District's analysis of the legal and factual basis for this proposed action, project #C-1070141, is available for public inspection at http://www.valleyair.org/notices/public_notices_idx.htm and the District office at the address below. For additional information regarding this matter, please contact Mr. Jim Swaney, Permit Services Manager, at (559) 230-5900, or contact David Warner, Director of Permit Services, in writing at SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT, 1990 E. GETTYSBURG AVE, FRESNO, CA 93726-0244.

SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT

Fairmead Landfill

Facility #C-2913

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TITLE V APPLICATION REVIEW

Project #: C-1070141
Deemed Complete: March 18, 2007

Engineer: John Yoshimura
Date: April 5, 2012

Facility Number: C-2913
Facility Name: Fairmead Landfill
Mailing Address: 2037 W. Cleveland Avenue
Madera, California 93637

Contact Name: Floyd Davis
Phone: (559) 661-6333

Responsible Official: Floyd Davis
Title: Resource Management Agency Director

I. PROPOSAL

Fairmead Landfill is proposing that an initial Title V permit be issued for its existing landfill facility in Madera County, CA. The purpose of this evaluation is to identify all applicable requirements, determine if the facility will comply with those applicable requirements, and to provide the legal and factual basis for proposed permit conditions. Fairmead Landfill has proposed to use the Authority to Construct (ATC) permit C-2913-1-3 as the basis for their Title V permit.

II. FACILITY LOCATION

Fairmead Regional Landfill is located at 21739 Road 19 in Chowchilla, CA.

III. EQUIPMENT LISTING

A detailed facility printout listing all permitted equipment at the facility is shown in Attachment A.

IV. GENERAL PERMIT TEMPLATE USAGE

The applicant is requesting to use the following model general permit templates:

A. SJV-UL-0-3

The applicant has requested to utilize template No. SJV-UM-0-3, Facility Wide Umbrella. Based on the information submitted in the Template Qualification Form, the applicant qualifies for the use of this template.

V. SCOPE OF EPA AND PUBLIC REVIEW

Certain segments of the proposed Operating Permit are based on model general permit templates that have been previously subject to EPA and public review. The terms and conditions from the model general permit templates are included in the proposed permit and are not subject to further EPA and public review.

For permit applications utilizing model general permit templates, public and agency comments on the District's proposed actions are limited to the applicant's eligibility for model general permit template, applicable requirements not covered by the model general permit template, and the applicable procedural requirements for issuance of Title V Operating Permits.

The following permit conditions, including their underlying applicable requirements, originate from model general permit templates and are not subject to further EPA or public review:

Conditions 1 through 40 of the requirements for permit unit C-2913-0-0.

VI. APPLICABLE REQUIREMENTS ADDRESSED BY GENERAL PERMIT TEMPLATES

- District Rule 1100, Equipment Breakdown (amended December 17, 1992) (Non-SIP replacement for Kern County Rule 111)²
- District Rule 1160, Emission Statements (adopted November 18, 1992)²
- District Rule 2010, Permits Required (amended December 17, 1992)²
- District Rule 2020, Exemptions (amended December 20, 2007)²
- District Rule 2031, Transfer of Permits (amended December 17, 1992)
- District Rule 2040, Applications (amended December 17, 1992)
- District Rule 2070, Standards for Granting Applications (amended December 17, 1992)
- District Rule 2080, Conditional Approval (amended December 17, 1992)
- District Rule 2520, Sections 5.2, 9.1.1, 9.4, 9.5, 9.7, 9.8, 9.9, 9.13.1, 9.13.2, 9.16 and 10.0, Federally Mandated Operating Permits (amended June 21, 2001)

² The Umbrella General Template addressed these requirements for all permit units at the facility.

- District Rule 4101, Visible Emissions (amended February 17, 2005)
- District Rule 4601, Architectural Coatings (amended December 17, 2009)
- District Rule 8021, Construction, Demolition, Excavation, Extraction and Other Earthmoving Activities (amended August 19, 2004)
- District Rule 8031, Bulk Materials (amended August 19, 2004)
- District Rule 8041, Carryout and Trackout (amended August 19, 2004)
- District Rule 8051, Open Areas (amended August 19, 2004)
- District Rule 8061, Paved and Unpaved Roads (amended August 19, 2004)
- District Rule 8071, Unpaved Vehicle/Equipment Traffic Areas (amended September 16, 2004)
- 40 CFR Part 82, Subpart B and F, Stratospheric Ozone
- 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos

VII. APPLICABLE REQUIREMENTS NOT ADDRESSED BY GENERAL PERMIT TEMPLATES

- District Rule 1081, Source Sampling (adopted December 16, 1993)
- District Rule 2201, New and Modified Stationary Source Review Rule (amended December 18, 2008)
- District Rule 4001, New Source Performance Standards (amended April 14, 1999)
- District Rule 4002, National Emission Standards for Hazardous Air Pollutants (amended May 20, 2004)
- District Rule 4102, Nuisance (amended February 17, 1992)
- District Rule 4311, Flares (amended June 15, 2006)
- District Rule 4642, Solid Waste Disposal Sites (amended April 16, 1998)
- District Rule 4651, Volatile Organic Compounds from Decontamination of Soil (amended September 20, 2007)
- District Rule 4801, Sulfur Compounds (adopted December 17, 1992)
- 40 CFR 60 Subpart Cc – Emission Guidelines and Compliance Timelines for Municipal Solid Waste Landfills
- 40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills

- 40 CFR Part 63, Subpart AAAA, National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills
- 40 CFR Part 64, Compliance Assurance Monitoring (CAM)

VIII. REQUIREMENTS NOT FEDERALLY ENFORCEABLE

For each Title V source, the District issues a single permit that contains the Federally Enforceable requirements, as well as the District-only requirements. The District-only requirements are not a part of the Title V Operating Permits. The terms and conditions that are part of the facility's Title V permit are designated as Federally Enforceable Through Title V Permit.

This facility is subject to the following rules that are not currently federally enforceable:

1. District Rule 4102, Nuisance (amended December 17, 1992)
 - For this facility, condition 42 of permit unit C-2913-0-0 and conditions 1-9, 13, and 14 of permit unit '1-4 are based on the rule listed above and are not Federally Enforceable through Title V.
2. California Environmental Quality Act
 - For this facility, conditions 10, 11, and 12 of permit unit C-2913-1-4 are based on the rule listed above and are not Federally Enforceable through Title V.

IX. COMPLIANCE

A. Requirements Addressed by Model General Permit Templates

1. Facility Wide Requirements

Template SJV-UM-0-3 will be used to address federally applicable facility-wide requirements. Section IV of template SJV-UM-0-3 includes a demonstration of compliance for all applicable requirements.

Template conditions have been added to the facility wide requirements as condition numbers 1 through 40 to assure compliance with these requirements.

B. Requirements Not Addressed by Model General Permit Templates

1. New and Modified Stationary Source Review Rule (District NSR Rule)

MUNICIPAL SOLID WASTE LANDFILL, 13.1 MILLION CUBIC YARD CAPACITY (121 ACRES ACTIVE) (C-2913-1-4).

Permit unit C-2913-1-4 was subject to the District NSR Rule upon application for Authority to Construct (ATC). In accordance with the White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995, conditions from the resulting PTO were addressed to define how NSR permit terms should be incorporated into the Title V permit.

- Conditions 15-24, 28-44, 59-66, 108-114 and 120 from the ATC '1-3, used as the basis for the Title V permit, have been included as condition 14-22, 26-42, 57-64, 107-113 and 119 of the requirements for permit unit '1-4.

2. District Rule 2520 - Federally Mandated Operating Permits

There are no federally applicable Greenhouse Gas (GHG) requirements for this source. It should be noted that the Mandatory Greenhouse Gas Reporting rule (40CFR Part 98) is not included in the definition of an applicable requirement within Title V (per 40CFR 71.2). Therefore, there will be no further discussion of GHG in this evaluation.

3. 40 CFR Part 60, Subpart Cc, Emission Guidelines and Compliance Timelines for Municipal Solid Waste Landfills

This subpart contains emission guidelines and compliance times for the control of certain designated pollutants from designated municipal solid waste (MSW) landfills. The designated facility to which the guidelines apply is each existing MSW landfill for which construction, reconstruction or modification was commenced before May 30, 1991.

This facility commenced construction to increase its total site capacity to exceed 2.5 million cubic meters in 2007. Therefore, the facility is no longer subject to this Subpart but to 40 CFR 60 Subpart WWW as discussed in the following section.

4. 40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills

The requirements of this subpart apply to each existing municipal solid waste landfill for which construction, reconstruction, or modification was commenced on or after May 30, 1991.

The applicable requirements of this section will be added to permit C-2913-1-4. The following proposed conditions will be listed on the permit as conditions 43-56 and 94-106 to ensure compliance:

- The NMOC emission rate shall be recalculated and reported to the APCO annually, except as otherwise provided in this permit, until such

time as the calculated NMOC emission rate is equal to or greater than 50 megagrams/year and a collection and control system is installed or until the landfill is closed. [40 CFR 60.752(b)(1), 60.754(a), 60.757(b)]

- If the calculated NMOC is equal to or greater than 50 megagrams/year, the owner or operator shall install a collection and control system, that effectively captures the gas generated within the landfill, within 30 months of that determination. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756]

The facility has submitted a collection and control system design plan with a flare sized properly to handle the maximum gas generation rate of the landfill.

60.753(b): Operate the collection system with negative pressure at each wellhead, except under the following conditions:

- (1) A fire or increased well temperature;
- (2) Use of a geomembrane or synthetic cover;
- (3) A decommissioned well.

60.753(c): Operate each wellhead in the collection system with a landfill gas temperature less than 55 °C and with either a nitrogen level less than 20 percent or and oxygen content less than percent. However, the owner/operator may establish a higher operating temperature, nitrogen, or oxygen value at a particular well.

(d): Operate the collection system so that the methane concentration is less than 500 parts per million above background at the surface of the landfill.

(e): Operate the system such that all collected gasses are vented to a control system designed and operated in compliance with 60.752(b)(2)(ii). In the event the collection or control system is inoperable, the gas mover system shall be shut down and all valves contributing to venting of the gas to the atmosphere shall be closed within one hour.

(f): Operate the control system at all times when the collected gas is routed to the system.

The following conditions will be listed on the permit to ensure compliance:

- If the calculated NMOC is equal to or greater than 50 megagrams/year, the owner or operator shall install a collection and control system, that effectively captures the gas generated within the landfill, within 30

months of that determination. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756]

60.754: This section primarily lists procedures for calculating the landfill gas emission rate to show that it is below 50 megagrams per year.

The following conditions will be listed on the permit to ensure compliance:

- The NMOC emission rate shall be calculated using the equation in 40CFR60.754(a)(1)(i), if the actual year-to-year solid waste acceptance rate is known or the equation in 40CFR60.754(a)(1)(ii), if the actual year-to-year solid waste acceptance rate is unknown. The values for k, Lo, and CNMOC for both equations shall be taken from 40CFR60.754(a)(1), as appropriate. Both equations may be used if the actual year-to-year acceptance rate is known for a part of the landfill life, but unknown for another part of the landfill life. The mass of nondegradable solid waste may be subtracted from the average annual acceptance rate when calculating R, if documentation of the nature and amount of such wastes is maintained. (Tier 1 specifications) [40 CFR 60.754(a)(1)]
- If the calculated NMOC emission rate is equal to or greater than 50 megagrams/year, then the landfill owner or operator shall either comply with the requirements of this permit to submit a collection and control design plan and install the system, or determine a site-specific NMOC concentration and recalculate the NMOC emission rate using Tier 2 specifications. [40 CFR 60.754(a)(2)(ii)]
- Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) For sampling, at least 2 sample probes shall be installed per hectare of landfill surface that has retained waste for at least 2 years, up to a maximum of 50 required probes. Probes should be located in known areas of degradable solid waste. One sample of landfill gas shall be collected from each probe to determine the NMOC concentration, using EPA Method 25, 25C, another method approved by the EPA, or 18, in accordance with 40 CFR 60.754(a)(3). If EPA Method 18 is used, the minimum list of compounds to be tested shall be those published in the most recent Compilation of AP-42. If composite sampling is used, equal sample volumes are required. All samples taken shall be used in the analysis. The NMOC concentration from Method 25 or 25C shall be divided by 6 to convert from C-NMOC, as carbon to as hexane. 2) For landfills equipped with active collection systems, samples may be collected from the common header pipe before gas moving or condensate removal equipment; a minimum of 3 samples must be collected. [40 CFR 60.754(a)(3), (a)(5)]

- Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) The NMOC mass emission rate shall be recalculated using the average site-specific concentration, instead of the default value, 2) If the resulting calculated mass emission rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall either comply with 60.752(b)(2), or determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using Tier 3 specifications. [40 CFR 60.754(a)(3)(i)&(ii)]
- If the calculated NMOC mass emission rate, using the site-specific NMOC concentration, is less than 50 megagrams/year, then a periodic estimate of the emission rate report, pursuant to 60.757(b)(1) shall be submitted to the Administrator. The site-specific NMOC concentration shall be retested every 5 years, using Tier 2 specifications. [40 CFR 60.754(a)(3)(iii)]
- Tier 3 specifications to determine the site-specific methane generation rate constant shall include the following: 1) EPA Method 2E or another method approved by the EPA shall be used, 2) The NMOC mass emission rate shall be recalculated using the average site-specific NMOC concentration and the site-specific methane generation rate constant k , instead of the default values in 40 CFR 60(a)(1), and 3) If the resulting calculated NMOC mass emission rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall comply with 60.752(b)(2). [40 CFR 60.754(a)(4), (a)(5) and (i)]
- If Tier 3 specifications are used to determine the site-specific methane generation rate and the calculated NMOC mass emission rate is less than 50 megagrams/year, then a periodic emission rate report shall be submitted to the Administrator, pursuant to 60.757(b)(1) and the NMOC concentration shall be recalculated annually, pursuant to 60.757(b)(1), using the site-specific methane generation rate constant and the NMOC concentration obtained using Tier 2 specifications. Determination of the site-specific methane generation rate constant is performed once and used in all subsequent annual NMOC emission rate calculations. [40 CFR 60.754(a)(4)(ii)]
- The NMOC emission rate shall be recalculated and reported to the APCO annually, except as otherwise provided in this permit, until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams/year and a collection and control system is installed or until the landfill is closed. [40 CFR 60.752(b)(1), 60.754(a), 60.757(b)]
- Control system VOC emissions shall be determined by Method 25, 25C, or Method 18. [40 CFR 60.754(d)]

- 60.755(a)(3): The owner/operator shall monitor the gauge pressure in the gas collection header at each individual well on a monthly basis. If a positive pressure exists, corrective action shall be initiated within five calendar days.
- (a)(5): The owner/operator shall monitor each individual well on a monthly basis for temperature and nitrogen or oxygen as provided 60.753(c). If a well exceeds one of these operating parameters, corrective action shall be initiated within five calendar days.
- (c)(1): The owner/operator shall monitor the surface concentrations of methane at the landfill on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 60.755(d).
- (e): The provisions of this subpart apply at all times, except during periods of startup, shutdown, or malfunction, provided that the duration of startup, shutdown, or malfunction does not exceed five days for the collection system and does not exceed one hour for the control system.

The following conditions will be listed on the permit to ensure compliance:

- If the calculated NMOC is equal to or greater than 50 megagrams/year, the owner or operator shall install a collection and control system, that effectively captures the gas generated within the landfill, within 30 months of that determination. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756]
- 60.756(a)(1): The owner/operator shall measure the gauge pressure in the gas collection header on a monthly basis as provided in 60.755(a)(3); and
- (a)(2): The owner/operator shall monitor the nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 60.755(a)(5); and
- (a)(3): The owner/operator shall monitor the temperature of the landfill gas on a monthly basis as provided in 60.755(a)(5).
- (c): The owner/operator using an open flare shall install, calibrate, maintain and operate according to the manufacturer's specification the following equipment:

(c)(1): A heat sensing device, such as an ultraviolet beam sensor or thermocouple, at the pilot light or the flame itself to indicate the continuous presence of a flame.

(c)(2): A gas flow rate measuring device that records the flow at least once every 15 minutes and is capable of measuring gas flow to the flare as well as gas flow that bypasses the flare.

The following conditions will be listed on the permit to ensure compliance:

- If the calculated NMOC is equal to or greater than 50 megagrams/year, the owner or operator shall install a collection and control system, that effectively captures the gas generated within the landfill, within 30 months of that determination. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756]

60.757: This section lists the reporting requirements of Subpart WWW. The applicant has submitted the initial design report and NMOC emission rate report.

The following conditions will be listed on the permit to ensure compliance:

- The NMOC emission rate shall be recalculated and reported to the APCO annually, except as otherwise provided in this permit, until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams/year and a collection and control system is installed or until the landfill is closed. [40 CFR 60.752(b)(1), 60.754(a), 60.757(b)]
- If the NMOC emission rate, as reported in the annual report is less than 50 megagrams/year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual reports for those 5 years. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years. All data and calculations upon which this estimate is based shall be provided to the APCO. This estimate shall be revised at least once every 5 years. [40 CFR 60.757(b)(1)(ii)]
- If the actual waste acceptance rate exceeds the estimated rate used in any year reported in a 5-year estimate of the NMOC emission rate, then a revised 5-year estimate shall be submitted to the APCO. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated acceptance rate. [40 CFR 60.757(b)(1)(ii)]

- The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. [40 CFR 60.757(b)(2)]
- If the owner or operator elects to recalculate the NMOC emission rate using Tier 2 specifications and the resulting NMOC emission rate is less than 50 megagrams/year, annual periodic reporting shall resume. The revised NMOC emission rate report, with the recalculated NMOC emission rate using Tier 2 specifications, shall be submitted within 180 days of the first Tier 1 calculated exceedance of 50 megagrams/year. [40 CFR 60.757(c)(1)]
- If the owner or operator elects to recalculate the NMOC emission rate using Tier 3 specifications and the resulting NMOC emission rate is less than 50 megagrams/year, annual periodic reporting shall resume. The revised NMOC emission rate report, with the recalculated NMOC emission rate using Tier 3 specifications, shall be submitted within 1 year of the first Tier 1 calculated exceedance of 50 megagrams/year. [40 CFR 60.757(c)(2)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall submit an equipment removal report to the District 30 days prior to removal or cessation of operation of the control equipment. The report shall conform to the requirements of 40 CFR 60.757(e)(1). [40 CFR 60.757(e)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall submit to the District semiannual reports of the recorded information in 40 CFR 60.757(f)(1-6). The initial report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. [40 CFR 60.757(f), 40 CFR 63.1980(a)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, the initial annual report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. The initial report shall include information specified in 40 CFR 60.757(g)(1-6). [40 CFR 60.757(f), (g)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) shall include

information specified in 40 CFR 60.757(g)(1-6) with the initial performance test report required under 40 CFR Part 60.8. [40 CFR 60.757(g)]

- 60.758(b)(1)(i): The owner/operator shall keep up-to-date, readily available records of the maximum expected gas generation flow rate.
- (b)(1)(ii): The owner/operator shall maintain records of the density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 30.759(a)(1).
- (b)(4): The owner/operator of an open flare used to comply with this subpart shall maintain records of all visible emission readings, landfill gas heat content determinations, gas flow rate measurements, and exit velocity determinations made during the performance tests specified in 40 CFR 60.18; and continuous records of the flare pilot flame or flare flame monitoring and records of all periods of operation during which the pilot flame or flare flame is absent.
- (b)(4)(c): All records shall be kept for five years.

The following conditions will be listed on the permit to ensure compliance:

- Each owner or operator shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. [40 CFR 60.758(a), 62.14355(a)]

Therefore, the following conditions will be listed on the permit to ensure compliance:

- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, each owner or operator shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. [District Rule 2520, 9.4.2 and 40 CFR 60.758(a)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, the following constitute exceedances that shall be recorded and reported under 40

CFR 60.757(f): All 3-hour periods of operation during which the average combustion temperature was more than 28 °C below the average combustion temperature during the most recent performance test (flare source test). [40 CFR 60.758(c)]

- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 60.758(b)(1) through (b)(4) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 60.758(b)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall keep the following records: (1)(i) the maximum expected gas generation flow rate as calculated in 60.755(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the APCO; (ii) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 60.759(a)(1); (2)(i) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; (ii) the percent reduction of NMOC determined as specified in 60.752(b)(2)(ii)(B) achieved by the control device. [40 CFR 60.758(b)(1) and (2)]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the enclosed flare, or the indication of bypass flow, or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, if applicable. [40 CFR 60.758(c) and 60.34c]
- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), permittee shall keep, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. Permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or non-

degradable waste excluded from collection as well as any nonproductive areas excluded from collection. [40 CFR 60.758(d)]

- Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)]

60.759: This section lists the specifications for active collection systems. The following conditions will be listed on the permit to ensure compliance:

- The gas collection and control system shall comply with the operational standards of 40 CFR 60.753, the compliance provisions of 40 CFR 60.755, the monitoring provisions of 40 CFR 60.756, the reporting and record keeping requirements of 40 CFR 60.757 and 60.758, and the requirements of 40 CFR 60.759 (for active collection systems). [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756, 60.757, 60.758, 60.759, 62.14353]

5. 40 CFR Part 63 - Subpart AAAA-Municipal Solid Waste Landfills Standards

This subpart establishes national emission standards for hazardous air pollutants for existing and new municipal solid waste (MSW) landfills. MSW landfill must comply with the requirements of 40 CFR 60 subpart WWW. In addition, MSW landfills that are new affected source (an affected source that commenced construction or reconstruction after November 7, 2000) and is a major source must comply with the requirements of 40 CFR 63.1955(b) and 63.1960 through 63.1980 by the date the landfill installs a collection and control system as required by 49 CFR 60.752(b)(2) of subpart WWW.

a. C-2913-1-4 – Municipal Solid Waste Landfill

- Conditions 120 and 121 ensure compliance with the requirements of this rule.

6. Rule 4311 – Flares

The purpose of this rule is to limit the emissions of volatile organic compounds (VOCs) and oxides of nitrogen (NO_x) from the operation of

flares. Section 4.3 of this Rule states that “Except for the recordkeeping requirements in Section 6.2.4, the requirements of this rule shall not apply to any stationary source that has the potential to emit, for all processes, less than ten (10.0) tons per year of VOC and less than ten (10.0) tons per year of NO_x. As shown previously in Section VII.C.5 this facility has an SSPE2 less than ten tons per year of VOC and less than ten tons per year of NO_x. Therefore, the flare at this facility is only subject to the recordkeeping requirements in Section 6.2.4 of this Rule.

Section 6.2.4 states that beginning January 1, 2007, facilities claiming an exemption pursuant to Section 4.3 shall record annual throughput, material usage, or other information necessary to demonstrate an exemption under that section. Therefore, the following condition will be listed on ‘-1-4 to ensure compliance:

- The facility shall maintain records of annual throughput, material usage, or other information necessary to demonstrate that facility-wide emissions are less than ten tons per year for both NO_x and VOC. [District Rule 4311]

7. Rule 4642 - Solid Waste Disposal Sites

Pursuant to Section 2.0, this rule is applicable to solid waste disposal sites which have a gas collection system and/or a control device in operation, or are undergoing maintenance or repair.

Pursuant to Section 4.1.2, any solid waste disposal site which is subject to the requirements of 40 CFR 60 Subpart WWW (Standards of Performance for Municipal Waste Landfills), or Subpart Cc (Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills) is exempt from the requirements of this Rule.

As discussed previously, this landfill is subject to 40 CFR 60 Subpart WWW and Subpart Cc. Therefore, the requirements of this rule do not apply.

8. Rule 4651– Soil Decontamination Operations

The purpose of this rule is to limit VOC emissions from soil that has been contaminated with a VOC-containing liquid.

Pursuant to Section 5.1, any operator excavating contaminated soil shall comply with the following requirements:

1. A written notice, according to Section 6.1, shall be submitted to the APCO prior to commencement of excavation of known contaminated soil.
2. Any excavation of soil resulting from operations related to contaminated soil shall be monitored for VOC contamination during the excavation and at least once every 15 minutes, unless the excavated soil is treated according to Section 5.2.1.
3. Excavated soil that has been detected as contaminated soil shall be placed in storage piles and handled as required by Section 5.2.
4. Excavated contaminated soil shall be decontaminated, recycled, disposed of in an approved facility, returned to excavation and permanently covered with at least six (6) inches of uncontaminated soil, or transported to a location outside of the SJVAB within thirty (30) calendar days from the time of excavation or as directed by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized state or local government officer having jurisdiction.

Therefore, the following condition will be listed on '-1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when excavating contaminated soil:
 - 1) Submit a written notice according to Section 6.1 prior to commencement of excavation of known contaminated soil;
 - 2) Monitor operation for VOC contamination at least once every 15 minutes unless the excavated soil is treated according to Section 5.2.1;
 - 3) Excavated soil that has been detected as contaminated shall be placed in storage piles or handled as required by Section 5.2 and;
 - 4) Excavated contaminated soil shall be decontaminated, recycled, disposed of in an approved facility, returned to excavation and permanently covered with at least six (6) inches of uncontaminated soil, or transported to a location outside of the SJVAB within thirty (30) calendar days from the time of excavation or as directed by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized state or local government officer having jurisdiction. [District Rule 4651]

Pursuant to Section 5.2, any operator handling contaminated soil shall comply with the following requirements:

1. For VOC concentration of the excavated contaminated soil measuring at 1,000 ppm or greater, the contaminated soil shall be sprayed with water or vapor suppressant and be subject to the following requirements in addition to all applicable requirements of the rule:

- Place the contaminated soil in sealed containers as soon as possible, but no more than 30 minutes after excavation, and handle pursuant to Section 5.1.4, or
 - Load the contaminated soil into trucks as soon as possible but no more than 30 minutes after excavation, moisten with additional water, cover as required in Section 5.3, and transport immediately to an approved facility, or
 - Implement other approved alternative storage methods and handle pursuant to Section 5.1.4.
 - Storage piles of contaminated soil shall be clearly isolated and identifiable from storage piles of uncontaminated soil according to Section 6.3.2
2. Storage piles of contaminated soil that have been inactive for more than 60 consecutive minutes shall be subject to one of the following:
- Treat with water or a vapor suppressant and cover with heavy-duty plastic sheeting to reduce VOC emissions. The covering shall have at least a six-foot overlap of adjacent sheets, be securely anchored, and have minimal headspace where vapors may accumulate, or
 - Cover with a layer of uncontaminated soil no less than six (6) inches deep.
 - A visual inspection of all storage piles of contaminated soil shall be conducted at least once every 24 hours, except when operators do not report to the facility for a given 24-hour period, to ensure the integrity of the covered surfaces and compliance with Section 5.2.5. Record of the visual inspections shall be maintained pursuant to Section 6.3.3.
 - Aeration of contaminated soil shall not be allowed except that which occurs during removal or addition of contaminated soil to a storage pile. This prohibition includes the use of contaminated soil in daily, intermediate, or final cover operations at disposal sites.

Therefore, the following condition will be listed on '1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, when handling excavated contaminated soil with VOC concentration measuring at 1,000 ppm or greater, the contaminated soil shall be sprayed with water or vapor suppressant and contaminated soil placed in sealed containers as soon as possible, but no more than 30 minutes after excavation, and handle pursuant to Section 5.1.4, or the contaminated soil loaded into trucks as soon as possible but no more than 30 minutes after excavation, moisten with additional

water, cover as required in Section 5.3, and transport immediately to an approved facility, or implement other approved alternative storage methods and handle pursuant to Section 5.1.4. [District Rule 4651]

- If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil the piles shall be clearly isolated and identifiable from storage piles of uncontaminated soil. The following is required for identification: 1) Location of the storage pile. 2) Unique identification of the storage pile. 3) The date that the storage pile was excavated. 4) Any other information deemed necessary for identification. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil that have been inactive for more than 60 consecutive minutes, the piles shall be treated with water or a vapor suppressant and cover with heavy-duty plastic sheeting to reduce VOC emissions and the covering shall have at least a six-foot overlap of adjacent sheets, be securely anchored, and have minimal headspace where vapors may accumulate, or covered with a layer of uncontaminated soil no less than six (6) inches deep. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when handling contaminated soil, a visual inspection of all storage piles of contaminated soil shall be conducted at least once every 24 hours, except when operators do not report to the facility for a given 24-hour period, to ensure the integrity of the covered surfaces and compliance with Section 5.2.5. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when handling contaminated soil, aeration of contaminated soil shall not be allowed except that which occurs during removal or addition of contaminated soil to a storage pile and this includes the use of contaminated soil in daily, intermediate, or final cover operations at disposal sites. [District Rule 4651]

Pursuant to Section 5.3, any operator transporting contaminated soil, whether by truck or other means of transportation, shall comply with all of the following requirements prior to leaving the facility:

- Any truck or trailer transporting contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck
- Contaminated soil shall be treated with water or vapor suppressant and covered with an continuous heavy duty plastic sheeting or

other covering to prevent spillage of contaminated soil during transport, and

- Chain-of-custody records shall be maintained according to Section 6.3.1 by the operators to document transfer of the transported contaminated soil.

Therefore, the following condition will be listed on '1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when transporting contaminated soil: 1) Any truck or trailer transporting contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck; 2) Contaminated soil shall be treated with water or vapor suppressant and covered with an continuous heavy duty plastic sheeting or other covering to prevent spillage of contaminated soil during transport, and; 3) Chain-of-custody records shall be maintained according to Section 6.3.1 by the operators to document transfer of the transported contaminated soil. [District Rule 4651]

Pursuant to Section 5.4, any operator de-contaminating soil shall comply with the following:

1. VOC emissions from the decontamination of contaminated soil shall be controlled by one of the following:
 - Installation and operation of a VOC collection and control device with a VOC destruction or removal efficiency of at least 95%, or
 - Any other approved VOC control device demonstrated to be equivalent.
 - Key system operating parameters shall be monitored to demonstrate compliance of the VOC control device during decontamination operations. Examples of key system operating parameters may include, but are not limited to, temperatures, pressures, and flow rates.
 - VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations and any additional operating and maintenance standards determined necessary by the APCO and EPA to ensure proper operation of the VOC control device.
2. Decontaminated soil shall be subject to the following requirements:
 - Monitor soil for contamination using the test method in Section 6.5.2 and
 - Record all VOC concentration readings according to Section 6.3.4

- Decontaminated soil measured as contaminated shall comply with all applicable requirements of this rule and be subject to one of the following:
- Return the contaminated soil to the excavation and permanently cover with six (6) inches or more of uncontaminated soil, or
- Decontaminate the contaminated soil to the extent that the soil is no longer considered contaminated as defined in Section 3.17, or
- Transport the contaminated soil to an approved disposal facility, or
- Transport the contaminated soil to a location outside of the SJVAB
- Decontaminated soil that is to be treated as uncontaminated soil shall required soil samples to be obtained from each storage pile of according to Section 6.6 and tested using the applicable test methods in Section 6.5.3 or Section 6.5.4.

Therefore, the following conditions will be listed on '1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, when decontaminating soil, VOC emissions from the decontamination of contaminated soil shall be controlled by installation and operation of a VOC collection and control device with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when decontaminating soil, the permittee shall monitor the temperature, pressure, and flow rates of the VOC control device. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when decontaminating soil, the VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, the permittee shall comply with one of the following regarding contaminated soil: 1) Return the contaminated soil to the excavation and permanently cover with six (6) inches or more of uncontaminated soil, or; 2) Decontaminate the contaminated soil to the extent that the soil is no longer considered contaminated as defined in Section 3.17, or; 3) Transport the contaminated soil to an approved disposal facility, or; 4) Transport the contaminated soil to a location outside of the SJVAB. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when decontaminating soil, the samples from decontaminated soil (that is to be treated as uncontaminated soil) shall be obtained by using the

soil sampling methods specified in this permit and shall be tested using the applicable soil sample test methods specified in the permit. [District Rule 4651]

Pursuant to Section 6.1, the operator shall include the following information in the notice of excavation activities as required by Sections 4.3 and 5.1:

- Names and addresses of operator(s) performing and responsible for excavation,
- Location of site where excavation will occur,
- Scheduled starting date of excavation. If the excavation does not commence on the start date, re-notification is required,
- Estimated volume of soil to be excavated,
- Estimated volume (in gallons) of VOC liquid spilled in the soil, if known, and
- Where emergency excavation is conducted at the direction of an authorized officer, pursuant to Section 4.3: name, title and contact information of the authorized officer, and a copy of the signed emergency declaration from the authorized officer.

Therefore, the following conditions will be listed on '1-4 to ensure compliance:

- The permittee shall include the following information in the notice of excavation activities: Names and addresses of operator(s) performing and responsible for excavation, location of site where excavation will occur, scheduled starting date of excavation (if the excavation does not commence on the start date, re-notification is required), estimated volume of soil to be excavated, estimated volume (in gallons) of VOC liquid spilled in the soil, if known. [District Rule 4651]
- Where emergency excavation is conducted at the direction of an authorized officer, the permittee shall include the following information: Name, title and contact information of the authorized officer, and a copy of the signed emergency declaration from the authorized officer. [District Rule 4651]

Pursuant to Section 6.2, the operator shall include the following information in the written verification as required by Section 4.3 and Section 5.1.

- Names and addresses of operator(s) performing and responsible for excavation,
- Address of site where excavation occurred,

- Date(s) of excavation,
- Estimated volume of contaminated soil excavated,
- Estimated average VOC content of the contaminated soil or estimated volume of VOC contaminant, and
- Final disposition of the contaminated soil.

Therefore, the following condition will be listed on '-1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the written notice when excavating contaminated soil: Names and addresses of operator(s) performing and responsible for excavation, address of site where excavation occurred, date(s) of excavation, estimated volume of contaminated soil excavated, estimated average VOC content of the contaminated soil or estimated volume of VOC contaminant, and final disposition of the contaminated soil. [District Rule 4651]

Pursuant to Section 6.3, records shall be retained for at least five (5) years, shall be readily available, and shall be made available to the APCO upon request.

Pursuant to Section 6.3.1, operators shall maintain records at the time custody is transferred. Records shall include but are not limited to the following:

- The identities and business addresses of the relevant parties such as the generator, transporter, and storage/treatment facilities,
- The volume of contaminated soil generated or received,
- All analytical data associated with the contaminated soil (this section does not apply to Section 4.3)
- The date and location of excavation of the contaminated soil, and
- The date and signatures of the operators at the time custody is transferred.

Therefore, the following condition will be listed on '-1-4 to ensure compliance:

- The permittee shall maintain the following records at the time custody is transferred: the identities and business addresses of the relevant parties such as the generator, transporter, and storage/treatment facilities, the volume of contaminated soil generated or received, all analytical data associated with the contaminated soil (except during an emergency evacuation of soil), the date and location of excavation of the contaminated soil, and

the date and signatures of the operators at the time custody is transferred. [District Rule 4651]

Pursuant to Section 6.3.2, each storage pile shall be identified according to, but not limited to, the following information:

- Location of storage pile.
- Unique identification of storage pile.
- Date that soil storage pile was excavated.

Therefore, the following condition will be listed on '-1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, the permittee shall identify each storage pile with the following information: Location of the storage pile, unique identification of the storage pile, and the date that the soil storage pile was excavated. [District Rule 4651]

Pursuant to Section 6.3.3, operators shall maintain visual inspection records at least once every 24 hours except when operators do not report to the facility for that given 24 hours. The records shall include, but are not limited to the following information:

- Location and unique identification of each specific pile.
- Name, date, and signature of operator inspecting the storage piles.

Therefore, the following condition will be listed on '-1-4 to ensure compliance:

- The permittee shall maintain visual inspection records at least once every 24 hours except when operators do not report to the facility for that given 24 hours and the records shall include location and unique identification of each specific pile and name, date, and signature of operator inspecting the storage piles. [District Rule 4651]

Pursuant to Section 6.3.4, recordkeeping requirements for VOC concentration readings pursuant to Section 5.1 and 5.4:

- The identities and business addresses of the relevant parties such as the generator or storage/treatment facilities
- The volume of contaminated or decontaminated soil,
- Date of contaminated or decontaminated soil,
- VOC concentration reading, and
- The origin of the contaminated or decontaminated soil.

Therefore, the following condition will be listed on '1-4 to ensure compliance:

- The permittee shall maintain the following records for VOC concentration readings: the identities and business addresses of the relevant parties such as the generator or storage/treatment facilities, the volume of contaminated or decontaminated soil, date of contaminated or decontaminated soil, VOC concentration reading, and the origin of the contaminated or decontaminated soil. [District Rule 4651]

Pursuant to Section 6.3.5, calibrations for all approved monitoring instruments shall be recorded and kept available onsite.

Therefore, the following condition will be listed on '1-4 to ensure compliance:

- The permittee shall maintain records of calibrations for all approved monitoring instruments. [District Rule 4651]

Pursuant to Section 6.4, the testing requirements are as follows:

- The operator of a VOC control device used to decontaminate excavated soil shall demonstrated compliance with the requirements of Section 5.4.1 before operation of such system.
- Source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel.
- The operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results must be maintained for at least five years and be readily available to the APCO upon written or oral request.

Therefore, the following conditions will be listed on '1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, the operator of a VOC control device used to decontaminate excavated soil shall demonstrated compliance with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent, before operation of such system. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [District Rule 4651]

- If the facility accepts contaminated soil for disposal, the operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results must be maintained for at least five years and be readily available to the APCO upon written or oral request. [District Rule 4651]

Pursuant to Section 6.5, test methods referenced shall be the latest approved method. The following methods shall be used:

1. The initial boiling point of a liquid from samples of contaminated soil shall be measured in accordance with one of the following applicable methods:
 - ASTM D86 for soil contaminated with petroleum liquid, or
 - ASTM D-1078-93 for soil contaminated with known organic chemical.
 - The VOC concentration of soils shall be measured as hexane using an organic vapor analyzer, complying with EPA Reference Method 21.
 - The VOC content of the soil that can be reasonably demonstrated to be contaminated only with petroleum shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D
 - The VOC content of soil that is contaminated by unknown VOC-containing liquids, or that cannot be reasonably demonstrated to be contaminated only with petroleum, shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. In addition to one of the aforementioned methods, the operator shall use EPA Reference Method 8260B or the gas chromatographic method in the Leaking Underground Fuel Tank (LUFT) Manual (October 1989).
 - An operator may use an equivalent alternative test method to those listed in Sections 6.5.1 through 6.5.4 for which APCO and EPA approval has been obtained.
 - When more than one test method or set of test methods is specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this rule.

Therefore, the following conditions will be listed on '1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, the initial boiling point of a liquid from samples of contaminated soil shall be measured in accordance with ASTM D86 for soil contaminated with petroleum liquid or ASTM D-1078 for soil contaminated with known organic chemical. [District Rule 4651]

- If the facility accepts contaminated soil for disposal, the VOC concentration of soils shall be measured as hexane using an organic vapor analyzer, complying with EPA Reference Method 21. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, the VOC content of the soil that can be reasonably demonstrated to be contaminated only with petroleum shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, the VOC content of soil that is contaminated by unknown VOC-containing liquids, or that cannot be reasonably demonstrated to be contaminated only with petroleum, shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. In addition to one of the aforementioned methods, the operator shall use EPA Reference Method 8260B or the gas chromatographic method in the Leaking Underground Fuel Tank (LUFT) Manual (October 1989). [District Rule 4651]
- If the facility accepts contaminated soil for disposal, an operator may use an equivalent alternative test method other than those listed if APCO and EPA approval has been obtained. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, when more than one test method or set of test methods is specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this permit. [District Rule 4651]

Pursuant to Section 6.6, the following soil sampling procedure for decontaminated soil shall be followed:

- One composite sample shall be collected and analyzed for VOC for every 50 cubic yards of excavated soil that has been determined to be uncontaminated by the test method in Section 6.5.2. At least one (1) composite sample shall be collected from each storage pile within 12 hours of soil decontamination.
- A composite sample shall consist of one sample taken from the center of each of four (4) equal sectors using the procedures described in Section 6.6.3 or other approved methods.
- Samples shall be taken from at least twelve (12) inches below the surface of the pile using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab in order to reduce the loss of volatile materials; or by using a clean brass or

stainless steel tube (at least twelve (12) inches long) driven into the soil with a suitable instrument. The ends of the brass tube shall then be covered with aluminum foil, then plastic end caps, and finally wrapped with a suitable tape. The samples shall then be immediately placed on ice, or dry ice, for transport to a laboratory.

- Chain-of-custody records shall be kept by the operators to document possession of a sample from the time it is taken in the field until it is analyzed

Therefore, the following conditions will be listed on '1-4 to ensure compliance:

- If the facility accepts contaminated soil for disposal, one composite sample shall be collected and analyzed for VOC for every 50 cubic yards of excavated soil that has been determined to be uncontaminated by the test method(s) specified in this permit. At least one (1) composite sample shall be collected from each storage pile within 12 hours of soil decontamination. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, a composite sample shall consist of one sample taken from the center of each of four (4) equal sectors using the procedures specified in this permit. [District Rule 4651]
- If the facility accepts contaminated soil for disposal, samples shall be taken from at least twelve (12) inches below the surface of the pile using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab in order to reduce the loss of volatile materials; or by using a clean brass or stainless steel tube (at least twelve (12) inches long) driven into the soil with a suitable instrument. The ends of the brass tube shall then be covered with aluminum foil, then plastic end caps, and finally wrapped with a suitable tape. The samples shall then be immediately placed on ice, or dry ice, for transport to a laboratory. [District Rule 4651]
- Chain-of-custody records shall be kept by the operators to document possession of a sample from the time it is taken in the field until it is analyzed. [District Rule 4651]

Pursuant to Section 7.1, the following compliance schedule applies:

- All contaminated soil excavation, handling, transporting, and decontamination projects shall be in compliance with the rule on and after March 20, 2008.

- Any VOC control device whose initial installation occurs on or after September 20, 2007 shall be in full compliance with the requirements of the rule upon initial operation.
- Any VOC control device installed prior to September 20, 2007 shall be in full compliance with the requirements of the rule no later than March 20, 2008.

The applicant is compliant with the requirements of this Rule with this Title V permit application.

9. Rule 4801 – Sulfur Compounds

The purpose of this rule is to limit the emissions of sulfur compounds. The limit is that sulfur compound emissions (as SO₂) shall not exceed 0.2% by volume. Using the ideal gas equation, the sulfur compound emissions are calculated as follows:

The ratio of the volume of the SO_x exhaust to the entire exhaust for one MMBtu of fuel combusted is:

$$\text{Volume of SO}_x: \quad V = \frac{n \cdot R \cdot T}{P}$$

Where:

- n = number of moles of SO_x produced per MMBtu of fuel.
- Weight of SO_x as SO₂ is 64 lb/(lb-mol)
- $n = \frac{0.033 \text{ lb}}{\text{MMBtu}} \times \frac{1 \text{ (lb-mol)}}{64 \text{ lb}} = 0.00052 \text{ (lb-mol)}$
- $R = \frac{0.7302 \text{ ft}^3 \text{ - atm}}{\text{(lb-mol)} \text{ - } ^\circ\text{R}}$
- T = 500 °R
- P = 1 atm

Thus, volume of SO_x per MMBtu is:

$$V = \frac{n \cdot R \cdot T}{P}$$
$$V = \frac{0.0033 \text{ (lb-mol)} \cdot \frac{0.7302 \text{ ft}^3 \text{ - atm}}{\text{(lb-mol)} \text{ - } ^\circ\text{R}} \cdot 500 \text{ } ^\circ\text{R}}{1 \text{ atm}}$$

$$V = 1.20 \text{ ft}^3$$

Since the total volume of exhaust per MMBtu is 8,578 scf, the ratio of SO_x volume to exhaust volume is:

$$= \frac{1.20}{8,578} = 0.00014 = 140 \text{ ppmv} = 0.0014\% \text{ by volume}$$

Therefore compliance with District Rule 4801 requirements is expected.

10. **Rule 8011 - General Requirements**

The purpose of Regulation VIII (Fugitive PM10 Prohibitions) is to reduce ambient concentrations of fine particulate matter (PM10) by requiring actions to prevent, reduce or mitigate anthropogenic fugitive dust emissions. The Rules contained in this Regulation have been developed pursuant to United States Environmental Protection Agency guidance for Serious PM10 Nonattainment Areas. The rules are applicable to specified anthropogenic fugitive dust sources. Fugitive dust contains PM10 and particles larger than PM10. Controlling fugitive dust emissions when visible emissions are detected will not prevent all PM10 emissions, but will substantially reduce PM10 emissions.

The provisions of this rule are applicable to specified outdoor fugitive dust sources. The definitions, exemptions, requirements, administrative requirements, recordkeeping requirements, and test methods set forth in this rule are applicable to all Rules under Regulation VIII (Fugitive PM10 Prohibitions) of the Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District.

a. C-2913-0-1 – Facility Wide Requirements

Conditions 121 through 129 of ATC permit '1-3, have been replaced with conditions 29 through 33 of the Facility Wide permit:

Conditions 29 through 34 of the Facility Wide permit, C-2913-0-1, ensure compliance with the requirements of this rule.

11. **District Rule 8021 - Construction, Demolition, Excavation, Extraction, and Other Earthmoving Activities**

The purpose of this rule is to limit fugitive dust emissions from construction, demolition, excavation, extraction, and other earthmoving activities.

This rule applies to any construction, demolition, excavation, extraction, and other earthmoving activities, including, but not limited to, land clearing, grubbing, scraping, travel on site, and travel on access roads to and from the site. This rule also applies to the construction of new landfill disposal sites or modification to existing landfill disposal sites prior to commencement of landfilling activities.

Section 5.0 requires that no person shall perform any construction, demolition, excavation, extraction, or other earthmoving activities unless the appropriate requirements in sections 5.1 and 5.2 are sufficiently implemented to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Condition 29 of permit unit '-0-1 ensures compliance.

11. Rule 8031 - Bulk Materials

The purpose of this rule is to limit fugitive dust emissions from the outdoor handling, storage, and transport of bulk materials.

This rule applies to the outdoor handling, storage, and transport of any bulk material.

Section 5.0 requires that no person shall perform any outdoor handling, storage, and transport of bulk materials unless the appropriate requirements in Table 8031-1 of this rule are sufficiently implemented to limit VDE to 20% opacity or to comply with the conditions for a stabilized surface as defined in

Rule 8011. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Conditions #121, 122, 123 and 124 were originally placed on permit unit '-1-3 for compliance with District Rule 8031; Fairmead Landfill did not have a facility wide permit. However, the facility has applied for a Title V permit and compliance with Rule 8031 will be ensured by condition #30 on permit unit '-0-1. Conditions #122 through 124 have been removed from permit unit '-1-3 as they are no longer necessary.

12. Rule 8041 - Carryout and Trackout

The purpose of this rule is to limit fugitive dust emissions from carryout and trackout.

This rule applies to all sites that are subject to Rules 8021 (Construction, Demolition, Excavation, Extraction, and other Earthmoving Activities), 8031 (Bulk Materials), and 8071 (Unpaved Vehicle and Equipment Traffic Areas) where carryout or trackout has occurred or may occur.

Section 5.0 requires that an owner/operator shall sufficiently prevent or cleanup carryout and trackout as specified in sections 5.1 through 5.8. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII. The use of blower

devices, or dry rotary brushes or brooms, for removal of carryout and trackout on public roads is expressly prohibited. The removal of carryout and trackout from paved public roads does not exempt an owner/operator from obtaining state or local agency permits which may be required for the cleanup of mud and dirt on paved public roads.

Condition #125 was originally placed on permit unit '-1-3 for compliance with District Rule 8041; Fairmead Landfill did not have a facility wide permit. However, the facility has applied for a Title V permit and compliance with Rule 8041 will be ensured by condition #31 on permit unit '-0-1. Condition #124 has been removed from permit unit '-1-3 as it is no longer necessary.

13. District Rule 8051 - Paved and Unpaved Roads

The purpose of this rule is to limit fugitive dust emissions from open areas.

This rule applies to any open area having 3.0 acres or more of disturbed surface area, that has remained undeveloped, unoccupied, unused, or vacant for more than seven days.

Section 5.0 requires that whenever open areas are disturbed or vehicles are used in open areas, the owner/operator shall implement one or a combination of control measures indicated in Table 8051-1 to comply with the conditions of a stabilized surface at all times and to limit VDE to 20% opacity. In addition to the requirements of this rule, a person shall comply with all other applicable requirements of Regulation VIII.

Condition 32 of permit unit '-0-1 ensures compliance.

14. District Rule 8061 - Paved and Unpaved Roads

The purpose of this rule is to limit fugitive dust emissions from paved and unpaved roads by implementing control measures and design criteria.

This rule applies to any new or existing public or private paved or unpaved road, road construction project, or road modification project.

Condition 33 of permit unit '-0-1 ensures compliance.

13. Rule 8071 - Unpaved Vehicle/Equipment Traffic Areas

The purpose of this rule is to limit fugitive dust emissions from unpaved vehicle and equipment traffic areas by implementing control measures and design criteria.

This rule applies to any unpaved vehicle/equipment traffic area of 1.0 acre or larger.

Conditions #126, 127, 128 and 129 were originally placed on permit unit '1-3 for compliance with District Rule 8041; Fairmead Landfill did not have a facility wide permit. However, the facility has applied for a Title V permit and compliance with Rule 8071 will be ensured by condition #34 on permit unit '1-0-1. Conditions #124 through 129 have been removed from permit unit '1-3 as they are no longer necessary.

14. 40 CFR Part 64-CAM

40 CFR Part 64 requires Compliance Assurance Monitoring (CAM) for units that meet the following three criteria:

- 1) The unit must have an emission limit for the pollutant;
- 2) The unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- 3) The unit must have a pre-control potential to emit of greater than the major source thresholds.

The permit has emissions limits for NO_x, SO_x, PM₁₀, and CO but there are no controls for these emissions. Therefore, the permit is not subject to CAM for NO_x, SO_x, PM₁₀ and CO.

Permit unit C-2913-1-4 has a VOC emission limit of 70.1 lb-VOC/day (for flare and landfill emissions) and a facility-wide limit of 19,999 lb-VOC/year. This permit unit utilizes an enclosed flare as a control device. The potential pre-control VOC emissions exceed the major source threshold for VOC emissions. Therefore, this permit unit is subject to CAM for VOC for the enclosed flare.

Since the VOC emission limits are combined landfill and flare emissions, the VOC emissions from the flare can only be limited with the flare meeting the 98% destruction efficiency. To provide assurance of compliance with the VOC emission limitation the facility proposes to monitor and record daily the enclosed flare's average combustion temperature determined during the most recent enclosed flare source test.

The following condition will be placed on permit unit C-2913-1-4 to comply with CAM for the enclosed flare.

- During operation of the enclosed flare, the permittee shall continuously monitor and record combustion chamber temperature. The temperature readings shall not be less than 28 degree C (50 degree F)

below the average combustion temperature determined during the most recent flare source test, averaged over a 3-hour period. Upon detecting any temperature excursion lower than 28 degree C (50 degree F) below the source test average combustion temperature, averaged over a 3-hour period, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64 and 40 CFR 60.758(c)(1)(i)] Y

- The enclosed flare burner and its associated components and the vapor collection system shall be inspected on an annual basis. The records of inspection shall at least contain date and time of inspection, identification of the person performing an inspection, parts replacement and repairs, and all maintenance actions taken. The records shall be kept and maintained for compliance inspection upon request. [40 CFR 64]
- The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64]
- If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64]

X. PERMIT SHIELD

A permit shield legally protects a facility from enforcement of the shielded regulations when a source is in compliance with the terms and conditions of the Title V permit. Compliance with the terms and conditions of the Operating Permit is considered compliance with all applicable requirements upon which those conditions are based, including those that have been subsumed.

A. Requirements Addressed by Model General Permit Templates

By using the model general permit template listed in Section IV of this evaluation, the applicant has requested that a permit shield be issued for requirements addressed in the template. The basis for each permit shield is discussed in the Permit Shield section of each template.

XI. PERMIT CONDITIONS

See final operating permit beginning on the following page.

Attachment A

Detailed Facility Printout

Detailed Facility Report
For Facility=2913 and excluding Deleted Permits
Sorted by Facility Name and Permit Number

FAIRMEAD LANDFILL 21739 ROAD 19 CHOWCHILLA, CA 93610	FAC # STATUS: TELEPHONE:	C 2913 A 5596732225	TYPE: TOXIC ID:	TitleV	EXPIRE ON: AREA: INSP. DATE:	03/31/2014 1 / 01/13
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PERMIT NUMBER	FEE DESCRIPTION	FEE RULE	QTY	FEE AMOUNT	FEE TOTAL	PERMIT STATUS	EQUIPMENT DESCRIPTION
C-2913-1-3	121 acre landfill (13.1 million cubic yards)	3020-12 U	121	99.00	2,848.00	A	MUNICIPAL SOLID WASTE LANDFILL SERVED BY A 33.33 MMBTU/HR LEACHATE/LANDFILL GAS CONDENSATE COLLECTION SYSTEM SERVED BY A CALLIDUS TECHNOLOGIES ENCLOSED FLARE WITH UP TO 100 GAS EXTRACTION WELLS

Number of Facilities Reported: 1

Attachment B

SJVUAPCD Previous Permits

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-2913-1-3

EXPIRATION DATE: 03/31/2014

EQUIPMENT DESCRIPTION:

MUNICIPAL SOLID WASTE LANDFILL SERVED BY A 33.33 MMBTU/HR LEACHATE/LANDFILL GAS CONDENSATE COLLECTION SYSTEM SERVED BY A CALLIDUS TECHNOLOGIES ENCLOSED FLARE WITH UP TO 100 GAS EXTRACTION WELLS

PERMIT UNIT REQUIREMENTS

1. The landfill facility, associated equipment, and surrounding Fairmead Landfill property shall be operated and maintained in such a manner as to prevent the generation of odors which may constitute a nuisance. [District Rule 4102]
2. Air pollution control equipment shall be maintained in good operating condition and shall be operated in accordance with the manufacturer's instructions. [District Rule 4102]
3. Equipment shall be operated in such a manner as to not constitute a nuisance or annoyance to a considerable number of people. [District Rule 4102]
4. Refuse delivery trucks shall be unloaded within two hours after entering the property. [District Rule 4102]
5. Refuse shall not be stockpiled anywhere outside of the designated refuse disposal areas. Trucks waiting their turn to unload within the 2 hour unload time limitation are not considered stockpiled outside the designated refuse disposal areas. [District Rule 4102]
6. All trucks delivering refuse shall be maintained in condition to prevent leakage of solid or liquid material and shall not be leaking solid or liquid material prior to exiting the landfill site. Trucks shall be cleared of any debris to minimize nuisance emissions. [District Rule 4102]
7. The designated refuse disposal areas shall be covered at the end of each operating day and maintained as necessary to prevent the emission of nuisance odors. [District Rule 4102]
8. Permittee shall maintain an updated odor control plan detailing all methods of nuisance odor control as it applies to the facility. The odor control plan shall be made available to all employees and shall be used as a training aid for new employees. The odor control plan shall be made available for District inspection upon request. [District Rule 4102]
9. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rules 1070 and 4102]
10. Composting shall not be performed as part of this expansion of the landfill. If composting is proposed in the future, a new application for an Authority to Construct must be submitted. The CEQA health risk assessment for this expansion must be revised to include the impacts of additional off-road equipment that will operate at the proposed composting site and associated truck traffic if composting or any other operation that would increase off-road equipment emissions or truck traffic on-site is proposed in the future. [California Environmental Quality Act]
11. All new diesel-fueled off-road equipment greater than 25 hp that will be added in the future beyond what is currently in use shall meet an emission limit of 0.15 g-PM10/bhp-hr. [California Environmental Quality Act]
12. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The District shall be notified in writing ten days prior to the acceptance of new types of waste streams, or waste streams with significant malodorous qualities. [District Rule 4102]
14. Total Class III waste material rate received at the facility shall not exceed either 1,100 tons/day or 401,500 tons/yr. [District Rule 2201]
15. Facility-wide VOC emissions shall not exceed 19,999 lb/year. [District Rule 2201]
16. VOC emissions from the landfill and the flare shall not exceed 70.1 lb/day. [District Rule 2201]
17. Emissions from the flare shall not exceed any of the following limits: 0.06 lb-NO_x/MMBtu, 0.033 lb-SO_x/MMBtu, 0.02 lb-PM₁₀/MMBtu, 0.2 lb-CO/MMBtu, or 0.0084 lb-VOC/MMBtu. [District Rule 2201]
18. Total PM₁₀ emissions from the handling of soil cover shall not exceed 0.0023 lb-PM₁₀/ton of material handled. [District Rule 2201]
19. Total soil cover usage rate shall not exceed 3,478 tons per day. [District Rule 2201]
20. The heat input of the landfill gas being combusted in the flare shall not exceed 33.33 MMBtu/hr. [District Rule 2201]
21. The flare shall be tested for compliance with the VOC emissions limit at least once every 12 months. [District Rule 2201]
22. Source testing on the flare shall be performed to demonstrate compliance with the flare NO_x and CO limits, and the NMOC destruction efficiency of 98%, or 20 ppmvd @ 3% O₂ as hexane, as required by this permit shall be conducted annually. [District Rule 2201]
23. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081]
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081]
25. The following test methods shall be used for VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rule 1081]
26. Sulfur content of the landfill gas being combusted in the flare shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or double GC for H₂S and mercaptans, or draeger tubes for H₂S, or an equivalent method approved by the District. [District Rule 2201]
27. Flare NMOC emissions shall be conducted using USEPA Test Method 18, 25, 25A, or 25C. [District Rule 2201]
28. Source testing for flare NO_x emissions shall be conducted using CARB Method 7 or Method 20. [District Rule 2201]
29. Source testing for flare CO emissions shall be conducted using EPA Method 10 or 10B, CARB Methods 1 through 5 with 10, or CARB Method 100. [District Rule 2201]
30. Operator shall determine landfill gas fuel higher heating value annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2201]
31. For initial monitoring of collection devices in the expansion area, prior to initial operation, the permittee shall monitor the collectors at least once per quarter for static pressure, percent methane, percent oxygen, and temperature utilizing a District-approved portable landfill gas analyzer. [District Rule 2201]
32. For commissioning of collection devices in the expansion area, collectors shall be commissioned and continually operated if all of the following parameters are met: (1) methane percent 45% or greater; (2) oxygen percent 5% or less; (3) temperature 131 degrees F; and (4) static pressure 5.0 in H₂O or greater. [District Rule 2201]
33. For operation of collection devices in the expansion area, once the collectors are commissioned, the permittee shall monitor the collectors weekly for the first six months of operation and may switch to monthly monitoring thereafter. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

34. For surface emissions monitoring, once an area has reached final grade or within 90 days when the LFG system in the area is commissioned, whichever comes first, surface emissions shall not exceed a methane concentration of 500 parts per million above background at the surface of the landfill. [District Rule 2201]
35. For surface emissions monitoring, surface monitoring for the landfill area shall be performed quarterly. If there are any exceedances during a quarterly event, monitoring will be required monthly until three consecutive months without exceedances, which would allow a return to quarterly monitoring. [District Rule 2201]
36. For surface emissions monitoring, after an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the initial exceedance. If compliance is shown, an additional remonitoring event is required within one month of the initial exceedance. If the ten day event shows an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the second exceedance. If compliance is shown, an additional remonitoring is required within one month of the initial exceedance. If the second ten day event shows an exceedance, the permittee shall permit and install additional landfill gas wells to correct the problem within 120 days of the initial exceedance. The permittee may utilize an alternative corrective action with prior approval from the APCO. [District Rule 2201]
37. For surface emissions monitoring, permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals (or a 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. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. [District Rule 2201]
38. For surface emissions monitoring, surface testing shall be performed using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). [District Rule 2201]
39. For surface emissions monitoring, the portable analyzer shall meet the instrument specifications of Method 21, section 3 (except that "methane" shall replace all references to VOC). The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air. To meet the performance evaluation requirements of Method 21, section 3.1.3, the instrument evaluation procedures of Method 21, section 4.4. The calibration procedures provided in Method 21, section 4.2 shall be followed immediately before commencing a surface monitoring survey. [District Rule 2201]
40. The provisions of this permit apply at all times, except during periods of start-up, shutdown, or malfunction (as defined in 40 CFR 60.755(e)). [District Rule 2201]
41. For site-wide VOC emissions monitoring, permittee shall perform site-wide VOC emissions monitoring on an annual basis. Samples shall be collected from the existing landfill and expansion areas per the LFG collection pipes, permanent LFG sampling wells, or Tier 2 procedures as described in this permit. Collected samples shall be analyzed using EPA Methods 25C and 3C. The results shall be submitted to the District quarterly for projected site-wide VOC emissions for the following year. If the projected site-wide VOC emissions exceeds the VOC offset threshold, the applicant shall submit an Authority to Construct application to install a GCCS one year prior to the site-wide VOC emissions projected to exceed the offset threshold for the following year. [District Rule 2201]
42. Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [District Rule 2201]
43. The NMOC emission rate shall be calculated using the equation in 40CFR60.754(a)(1)(i), if the actual year-to-year solid waste acceptance rate is known or the equation in 40CFR60.754(a)(1)(ii), if the actual year-to-year solid waste acceptance rate is unknown. The values for k, Lo, and CNMOC for both equations shall be taken from 40CFR60.754(a)(1), as appropriate. Both equations may be used if the actual year-to-year acceptance rate is known for a part of the landfill life, but unknown for another part of the landfill life. The mass of nondegradable solid waste may be subtracted from the average annual acceptance rate when calculating R, if documentation of the nature and amount of such wastes is maintained. (Tier 1 specifications) [40 CFR 60.754(a)(1)]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

44. If the calculated NMOC emission rate is equal to or greater than 50 megagrams/year, then the landfill owner or operator shall either comply with the requirements of this permit to submit a collection and control design plan and install the system, or determine a site-specific NMOC concentration and recalculate the NMOC emission rate using Tier 2 specifications. [40 CFR 60.754(a)(2)(ii)]
45. Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) For sampling, at least 2 sample probes shall be installed per hectare of landfill surface that has retained waste for at least 2 years, up to a maximum of 50 required probes. Probes should be located in known areas of degradable solid waste. One sample of landfill gas shall be collected from each probe to determine the NMOC concentration, using EPA Method 25, 25C, another method approved by the EPA, or 18, in accordance with 40 CFR 60.754(a)(3). If EPA Method 18 is used, the minimum list of compounds to be tested shall be those published in the most recent Compilation of AP-42. If composite sampling is used, equal sample volumes are required. All samples taken shall be used in the analysis. The NMOC concentration from Method 25 or 25C shall be divided by 6 to convert from C-NMOC, as carbon to as hexane. 2) For landfills equipped with active collection systems, samples may be collected from the common header pipe before gas moving or condensate removal equipment; a minimum of 3 samples must be collected. [40 CFR 60.754(a)(3), (a)(5)]
46. Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) The NMOC mass emission rate shall be recalculated using the average site-specific concentration, instead of the default value, 2) If the resulting calculated mass emission rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall either comply with 60.752(b)(2), or determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using Tier 3 specifications. [40 CFR 60.754(a)(3)(i)&(ii)]
47. If the calculated NMOC mass emission rate, using the site-specific NMOC concentration, is less than 50 megagrams/year, then a periodic estimate of the emission rate report, pursuant to 60.757(b)(1) shall be submitted to the Administrator. The site-specific NMOC concentration shall be retested every 5 years, using Tier 2 specifications. [40 CFR 60.754(a)(3)(iii)]
48. Tier 3 specifications to determine the site-specific methane generation rate constant shall include the following: 1) EPA Method 2E or another method approved by the EPA shall be used, 2) The NMOC mass emission rate shall be recalculated using the average site-specific NMOC concentration and the site-specific methane generation rate constant k, instead of the default values in 40 CFR 60(a)(1), and 3) If the resulting calculated NMOC mass emission rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall comply with 60.752(b)(2). [40 CFR 60.754(a)(4), (a)(5) and (i)]
49. If Tier 3 specifications are used to determine the site-specific methane generation rate and the calculated NMOC mass emission rate is less than 50 megagrams/year, then a periodic emission rate report shall be submitted to the Administrator, pursuant to 60.757(b)(1) and the NMOC concentration shall be recalculated annually, pursuant to 60.757(b)(1), using the site-specific methane generation rate constant and the NMOC concentration obtained using Tier 2 specifications. Determination of the site-specific methane generation rate constant is performed once and used in all subsequent annual NMOC emission rate calculations. [40 CFR 60.754(a)(4)(ii)]
50. The NMOC emission rate shall be recalculated and reported to the APCO annually, except as otherwise provided in this permit, until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams/year and a collection and control system is installed or until the landfill is closed. [40 CFR 60.752(b)(1), 60.754(a), 60.757(b)]
51. If the NMOC emission rate, as reported in the annual report is less than 50 megagrams/year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual reports for those 5 years. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years. All data and calculations upon which this estimate is based shall be provided to the APCO. This estimate shall be revised at least once every 5 years. [40 CFR 60.757(b)(1)(ii)]
52. If the actual waste acceptance rate exceeds the estimated rate used in any year reported in a 5-year estimate of the NMOC emission rate, then a revised 5-year estimate shall be submitted to the APCO. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated acceptance rate. [40 CFR 60.757(b)(1)(ii)]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

53. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. [40 CFR 60.757(b)(2)]
54. If the owner or operator elects to recalculate the NMOC emission rate using Tier 2 specifications and the resulting NMOC emission rate is less than 50 megagrams/year, annual periodic reporting shall resume. The revised NMOC emission rate report, with the recalculated NMOC emission rate using Tier 2 specifications, shall be submitted within 180 days of the first Tier 1 calculated exceedance of 50 megagrams/year. [40 CFR 60.757(c)(1)]
55. If the owner or operator elects to recalculate the NMOC emission rate using Tier 3 specifications and the resulting NMOC emission rate is less than 50 megagrams/year, annual periodic reporting shall resume. The revised NMOC emission rate report, with the recalculated NMOC emission rate using Tier 3 specifications, shall be submitted within 1 year of the first Tier 1 calculated exceedance of 50 megagrams/year. [40 CFR 60.757(c)(2)]
56. If the calculated NMOC is equal to or greater than 50 megagrams/year, the owner or operator shall install a collection and control system, that effectively captures the gas generated within the landfill, within 30 months of that determination. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756]
57. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule]
58. Permittee shall operate the flare at all times when the collected gas is routed to it. [District Rule 2201]
59. Gas collection system shall be operated in a manner which maximizes the amount of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 2201]
60. During maintenance of the gas collection system or incineration device, emissions of landfill gas shall be minimized during shutdown. [District Rules 2020, 7.3 and 2201]
61. Maintenance is defined as work performed on a gas collection system and/or control device in order to ensure continued compliance with District rules, regulations, and/or Permits to Operate, and to prevent its failure or malfunction. [District Rule 2201]
62. The permittee shall notify the APCO by telephone at least 24 hours before performing any maintenance work that requires the system to be shutdown. The notification shall include a description of work, the date work will be performed and the amount of time needed to complete the maintenance work. [District Rule 2201]
63. Landfill gas line from collection header shall be equipped with a gas flow rate measurement device. [District Rule 2201]
64. A non-resettable, totalizing mass or volumetric landfill gas fuel flow meter, or other APCO approved alternative, to measure the amount of gas combusted in the enclosed flare shall be installed, utilized and maintained. [District NSR Rule]
65. Sampling ports adequate for sulfur testing shall be provided in the landfill gas manifold line to the flare. [District Rule 1081]
66. If the facility accepts contaminated soil for disposal, source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [District Rule 4651]
67. If the facility accepts contaminated soil for disposal, the operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results must be maintained for at least five years and be readily available to the APCO upon written or oral request. [District Rule 4651]
68. If the facility accepts contaminated soil for disposal, one composite sample shall be collected and analyzed for VOC for every 50 cubic yards of excavated soil that has been determined to be uncontaminated by the test method(s) specified in this permit. At least one (1) composite sample shall be collected from each storage pile within 12 hours of soil decontamination. [District Rule 4651]
69. If the facility accepts contaminated soil for disposal, a composite sample shall consist of one sample taken from the center of each of four (4) equal sectors using the procedures specified in this permit. [District Rule 4651]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

70. If the facility accepts contaminated soil for disposal, samples shall be taken from at least twelve (12) inches below the surface of the pile using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab in order to reduce the loss of volatile materials; or by using a clean brass or stainless steel tube (at least twelve (12) inches long) driven into the soil with a suitable instrument. The ends of the brass tube shall then be covered with aluminum foil, then plastic end caps, and finally wrapped with a suitable tape. The samples shall then be immediately placed on ice, or dry ice, for transport to a laboratory. [District Rule 4651]
71. If the facility accepts contaminated soil for disposal, the initial boiling point of a liquid from samples of contaminated soil shall be measured in accordance with ASTM D86 for soil contaminated with petroleum liquid or ASTM D-1078 for soil contaminated with known organic chemical. [District Rule 4651]
72. If the facility accepts contaminated soil for disposal, the VOC concentration of soils shall be measured as hexane using an organic vapor analyzer, complying with EPA Reference Method 21. [District Rule 4651]
73. If the facility accepts contaminated soil for disposal, the VOC content of the soil that can be reasonably demonstrated to be contaminated only with petroleum shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. [District Rule 4651]
74. If the facility accepts contaminated soil for disposal, the VOC content of soil that is contaminated by unknown VOC-containing liquids, or that cannot be reasonably demonstrated to be contaminated only with petroleum, shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. In addition to one of the aforementioned methods, the operator shall use EPA Reference Method 8260B or the gas chromatographic method in the Leaking Underground Fuel Tank (LUFT) Manual (October 1989). [District Rule 4651]
75. If the facility accepts contaminated soil for disposal, an operator may use an equivalent alternative test method other than those listed if APCO and EPA approval has been obtained. [District Rule 4651]
76. If the facility accepts contaminated soil for disposal, when more than one test method or set of test methods is specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this permit. [District Rule 4651]
77. If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when excavating contaminated soil: 1) Submit a written notice according to Section 6.1 prior to commencement of excavation of known contaminated soil; 2) Monitor operation for VOC contamination at least once every 15 minutes unless the excavated soil is treated according to Section 5.2.1; 3) Excavated soil that has been detected as contaminated shall be placed in storage piles or handled as required by Section 5.2 and; 4) Excavated contaminated soil shall be decontaminated, recycled, disposed of in an approved facility, returned to excavation and permanently covered with at least six (6) inches of uncontaminated soil, or transported to a location outside of the SJVAB within thirty (30) calendar days from the time of excavation or as directed by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized state or local government officer having jurisdiction. [District Rule 4651]
78. If the facility accepts contaminated soil for disposal, when handling excavated contaminated soil with VOC concentration measuring at 1,000 ppm or greater, the contaminated soil shall be sprayed with water or vapor suppressant and contaminated soil placed in sealed containers as soon as possible, but no more than 30 minutes after excavation, and handle pursuant to Section 5.1.4, or the contaminated soil loaded into trucks as soon as possible but no more than 30 minutes after excavation, moisten with additional water, cover as required in Section 5.3, and transport immediately to an approved facility, or implement other approved alternative storage methods and handle pursuant to Section 5.1.4. [District Rule 4651]
79. If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil the piles shall be clearly isolated and identifiable from storage piles of uncontaminated soil. The following is required for identification: 1) Location of the storage pile. 2) Unique identification of the storage pile. 3). The date that the storage pile was excavated. 4). Any other information deemed necessary for identification. [District Rule 4651]
80. If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil that have been inactive for more than 60 consecutive minutes, the piles shall be treated with water or a vapor suppressant and cover with heavy-duty plastic sheeting to reduce VOC emissions and the covering shall have at least a six-foot overlap of adjacent sheets, be securely anchored, and have minimal headspace where vapors may accumulate, or covered with a layer of uncontaminated soil no less than six (6) inches deep. [District Rule 4651]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

81. If the facility accepts contaminated soil for disposal, when handling contaminated soil, a visual inspection of all storage piles of contaminated soil shall be conducted at least once every 24 hours, except when operators do not report to the facility for a given 24-hour period, to ensure the integrity of the covered surfaces and compliance with Section 5.2.5. [District Rule 4651]
82. If the facility accepts contaminated soil for disposal, when handling contaminated soil, aeration of contaminated soil shall not be allowed except that which occurs during removal or addition of contaminated soil to a storage pile and this includes the use of contaminated soil in daily, intermediate, or final cover operations at disposal sites. [District Rule 4651]
83. If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when transporting contaminated soil: 1) Any truck or trailer transporting contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck; 2) Contaminated soil shall be treated with water or vapor suppressant and covered with an continuous heavy duty plastic sheeting or other covering to prevent spillage of contaminated soil during transport, and; 3) Chain-of-custody records shall be maintained according to Section 6.3.1 by the operators to document transfer of the transported contaminated soil. [District Rule 4651]
84. If the facility accepts contaminated soil for disposal, when decontaminating soil, VOC emissions from the decontamination of contaminated soil shall be controlled by installation and operation of a VOC collection and control device with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent. [District Rule 4651]
85. If the facility accepts contaminated soil for disposal, when decontaminating soil, the permittee shall monitor the temperature, pressure, and flow rates of the VOC control device. [District Rule 4651]
86. If the facility accepts contaminated soil for disposal, when decontaminating soil, the VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations. [District Rule 4651]
87. If the facility accepts contaminated soil for disposal, the permittee shall comply with one of the following regarding contaminated soil: 1) Return the contaminated soil to the excavation and permanently cover with six (6) inches or more of uncontaminated soil, or; 2) Decontaminate the contaminated soil to the extent that the soil is no longer considered contaminated as defined in Section 3.17, or; 3) Transport the contaminated soil to an approved disposal facility, or; 4) Transport the contaminated soil to a location outside of the SJVAB. [District Rule 4651]
88. If the facility accepts contaminated soil for disposal, when decontaminating soil, the samples from decontaminated soil (that is to be treated as uncontaminated soil) shall be obtained by using the soil sampling methods specified in this permit and shall be tested using the applicable soil sample test methods specified in the permit. [District Rule 4651]
89. If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the notice of excavation activities: Names and addresses of operator(s) performing and responsible for excavation, location of site where excavation will occur, scheduled starting date of excavation (if the excavation does not commence on the start date, re-notification is required), estimated volume of soil to be excavated, estimated volume (in gallons) of VOC liquid spilled in the soil, if known. [District Rule 4651]
90. If the facility accepts contaminated soil for disposal, where emergency excavation is conducted at the direction of an authorized officer, the permittee shall include the following information: Name, title and contact information of the authorized officer, and a copy of the signed emergency declaration from the authorized officer. [District Rule 4651]
91. If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the written notice when excavating contaminated soil: Names and addresses of operator(s) performing and responsible for excavation, address of site where excavation occurred, date(s) of excavation, estimated volume of contaminated soil excavated, estimated average VOC content of the contaminated soil or estimated volume of VOC contaminant, and final disposition of the contaminated soil. [District Rule 4651]
92. If the facility accepts contaminated soil for disposal, the permittee shall identify each storage pile with the following information: Location of the storage pile, unique identification of the storage pile, and the date that the soil storage pile was excavated. [District Rule 4651]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

93. If the facility accepts contaminated soil for disposal, the operator of a VOC control device used to decontaminate excavated soil shall demonstrated compliance with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent, before operation of such system. [District Rule 4651]
94. Control system VOC emissions shall be determined by Method 25, 25C, or Method 18. [40 CFR 60.754(d)]
95. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall submit an equipment removal report to the District 30 days prior to removal or cessation of operation of the control equipment. The report shall conform to the requirements of 40 CFR 60.757(e)(1). [40 CFR 60.757(e)]
96. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall submit to the District semiannual reports of the recorded information in 40 CFR 60.757(f)(1-6). The initial report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. [40 CFR 60.757(f), 40 CFR 63.1980(a)]
97. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, the initial annual report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. The initial report shall include information specified in 40 CFR 60.757(g)(1-6). [40 CFR 60.757(f), (g)]
98. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) shall include information specified in 40 CFR 60.757(g)(1-6) with the initial performance test report required under 40 CFR Part 60.8. [40 CFR 60.757(g)]
99. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, each owner or operator shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. [District Rule 2520, 9.4.2 and 40 CFR 60.758(a)]
100. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, the following constitute exceedances that shall be recorded and reported under 40 CFR 60.757(f): All 3-hour periods of operation during which the average combustion temperature was more than 28 °C below the average combustion temperature during the most recent performance test (flare source test). [40 CFR 60.758(c)]
101. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 60.758(b)(1) through (b)(4) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 60.758(b)]
102. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall keep the following records: (1)(i) the maximum expected gas generation flow rate as calculated in 60.755(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the APCO; (ii) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 60.759(a)(1); (2)(i) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; (ii) the percent reduction of NMOC determined as specified in 60.752(b)(2)(ii)(B) achieved by the control device. [40 CFR 60.758(b)(1) and (2)]
103. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the enclosed flare, or the indication of bypass flow, or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, if applicable. [40 CFR 60.758(c) and 60.34c]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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104. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), permittee shall keep, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. Permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as well as any nonproductive areas excluded from collection. [40 CFR 60.758(d)]
105. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)]
106. Permittee shall maintain records of system inspections including: date, time and inspection results. [District Rule 2201]
107. Permittee shall maintain records of maintenance related or other collection system and control device downtime, including individual well shutdown. [District Rule 2201]
108. The operator shall record emission control device source tests (emissions of CO, NO_x, and VOC) in pounds per MMBtu heat input. Operator shall also record VOC destruction/treatment efficiency. [District Rule 2201]
109. Daily records of the weight of materials received (tons) - including Class II/III waste material, Class II soil cover, and clean soil cover - and daily records of all soil organic content test results and certifications, shall be maintained, kept on site for a period of five years, and made available to District staff upon request. [District Rule 2201]
110. A record of continuous flare combustion temperature, continuous volumetric gas flow rate, net heating value of landfill gas being combusted, daily landfill gas fuel consumption, and hourly heat input shall be maintained, retained on the premises for a period of at least five years and made readily available for District inspection upon request. [District Rule 2201]
111. Records of daily landfill gas flow rate and annual test results of higher heating value of landfill gas shall be maintained. [District Rule 2201]
112. The facility shall maintain records of annual throughput, material usage, and other information necessary to demonstrate that facility-wide emissions are less than ten tons per year for both NO_x and VOC. [District Rules 2201 and 4311]
113. The permittee shall maintain the following records at the time custody is transferred: the identities and business addresses of the relevant parties such as the generator, transporter, and storage/treatment facilities, the volume of contaminated soil generated or received, all analytical data associated with the contaminated soil (except during an emergency evacuation of soil), the date and location of excavation of the contaminated soil, and the date and signatures of the operators at the time custody is transferred. [District Rule 4651]
114. The permittee shall maintain visual inspection records at least once every 24 hours except when operators do not report to the facility for that given 24 hours and the records shall include location and unique identification of each specific pile and name, date, and signature of operator inspecting the storage piles. [District Rule 4651]
115. The permittee shall maintain the following records for VOC concentration readings: the identities and business addresses of the relevant parties such as the generator or storage/treatment facilities, the volume of contaminated or decontaminated soil, date of contaminated or decontaminated soil, VOC concentration reading, and the origin of the contaminated or decontaminated soil. [District Rule 4651]
116. The permittee shall maintain records of calibrations for all approved monitoring instruments. [District Rule 4651]
117. Chain-of-custody records shall be kept by the operators to document possession of a sample from the time it is taken in the field until it is analyzed. [District Rule 4651]
118. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 2201]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

119. Except for the spreading of landfill cover, when handling bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, wind barriers with less than 50% opacity shall also be used. [District Rules 8011 and 8031]
120. When storing bulk materials outside an enclosed structure or building, water or chemical/organic stabilizers/suppressants shall be applied as required to limit Visible Dust Emissions to a maximum of 20% opacity. When necessary to achieve this opacity limitation, all bulk material piles shall also be either maintained with a stabilized surface as defined in Section 3.58 of District Rule 8011, or shall be protected with suitable covers or barriers as prescribed in Table 8031-1, Section B, of District Rule 8031. [District Rules 8011 and 8031]
121. When transporting bulk materials outside an enclosed structure or building, all bulk material transport vehicles shall limit Visible Dust Emissions to 20% opacity by either limiting vehicular speed, maintaining sufficient freeboard on the load, applying water to the top of the load, or covering the load with a tarp or other suitable cover. [District Rules 8011 and 8031]
122. All outdoor chutes and conveyors shall be controlled by any of the following options: 1) full enclosure, 2) operation with material sufficiently wetted such that VDE is limited to 20% opacity, or 3) the concentration of particles having an aerodynamic diameter of 10 microns or less in the conveyed material shall be sufficiently small to limit VDE to 20% opacity. [District Rules 8011 and 8031]
123. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Rule 8041 or Rule 8011. [District Rules 8041 and 8011]
124. One or more of the following control measures shall be implemented on each day that 50 or more VDT (Vehicle Daily Trips), or 25 or more VDT with 3 or more axles, originates from within and remains exclusively within an unpaved vehicle/equipment traffic area: water, gravel, roadmix, or chemical/organic dust stabilizers/suppressants, vegetative materials, or other District-approved control measure shall be applied to unpaved vehicle travel areas as required to limit Visible Dust Emissions to 20% opacity and comply with the requirements for a stabilized unpaved road as defined in District Rule 8011. [District Rule 8071 and 8011]
125. On each day that 50 or more VDT (Vehicle Daily Trips), or 25 or more VDT with 3 or more axles, originates from within and remains exclusively within an unpaved vehicle/equipment traffic area, dusting materials accumulated on paved surfaces shall be removed daily or water and/or chemical/organic dust stabilizers/suppressants shall be applied to the paved surface as required to maintain continuous compliance with the requirements for a stabilized unpaved road as defined in District Rule 8011 and limit Visible Dust Emissions (VDE) to 20% opacity. [District Rule 8011 and 8071]
126. Whenever any portion of the site becomes inactive, Permittee shall restrict access and periodically stabilize any disturbed surface to comply with the conditions for a stabilized surface as defined in Section 3.58 of District Rule 8011. [District Rules 8071 and 8011]
127. Records and other supporting documentation shall be maintained as required to demonstrate compliance with the requirements of the rules under Regulation VIII only for those days that a control measure was implemented. Such records shall include the type of control measure(s) used, the location and extent of coverage, and the date, amount, and frequency of application of dust suppressant, manufacturer's dust suppressant product information sheet that identifies the name of the dust suppressant and application instructions. Records shall be kept for one year following project completion that results in the termination of all dust generating activities. [District Rules 8031, 8071, and 8011]

These terms and conditions are part of the Facility-wide Permit to Operate.

Attachment C

TITLE V PERMITS

San Joaquin Valley Air Pollution Control District

FACILITY: C-2913-0-1

EXPIRATION DATE: 03/31/2014

FACILITY-WIDE REQUIREMENTS

1. The owner or operator shall notify the District of any breakdown condition as soon as reasonably possible, but no later than one hour after its detection, unless the owner or operator demonstrates to the District's satisfaction that the longer reporting period was necessary. [District Rule 1100, 6.1; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
2. The District shall be notified in writing within ten days following the correction of any breakdown condition. The breakdown notification shall include a description of the equipment malfunction or failure, the date and cause of the initial failure, the estimated emissions in excess of those allowed, and the methods utilized to restore normal operations. [District Rule 1100, 7.0; County Rules 110 (Fresno, Stanislaus, San Joaquin); 109 (Merced); 113 (Madera); and 111 (Kern, Tulare, Kings)] Federally Enforceable Through Title V Permit
3. The owner or operator of any stationary source operation that emits more than 25 tons per year of nitrogen oxides or reactive organic compounds, shall provide the District annually with a written statement in such form and at such time as the District prescribes, showing actual emissions of nitrogen oxides and reactive organic compounds from that source. [District Rule 1160, 5.0] Federally Enforceable Through Title V Permit
4. Any person building, altering or replacing any operation, article, machine, equipment, or other contrivance, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce, or control the issuance of air contaminants, shall first obtain an Authority to Construct (ATC) from the District unless exempted by District Rule 2020 (12/20/07). [District Rule 2010, 3.0 and 4.0; and 2020] Federally Enforceable Through Title V Permit
5. The permittee must comply with all conditions of the permit including permit revisions originated by the District. All terms and conditions of a permit that are required pursuant to the Clean Air Act (CAA), including provisions to limit potential to emit, are enforceable by the EPA and Citizens under the CAA. Any permit noncompliance constitutes a violation of the CAA and the District Rules and Regulations, and is grounds for enforcement action, for permit termination, revocation, reopening and reissuance, or modification; or for denial of a permit renewal application. [District Rules 2070, 7.0; 2080; and 2520, 9.9.1 and 9.13.1] Federally Enforceable Through Title V Permit
6. A Permit to Operate or an Authority to Construct shall not be transferred unless a new application is filed with and approved by the District. [District Rule 2031] Federally Enforceable Through Title V Permit
7. Every application for a permit required under Rule 2010 (12/17/92) shall be filed in a manner and form prescribed by the District. [District Rule 2040] Federally Enforceable Through Title V Permit
8. The operator shall maintain records of required monitoring that include: 1) the date, place, and time of sampling or measurement; 2) the date(s) analyses were performed; 3) the company or entity that performed the analysis; 4) the analytical techniques or methods used; 5) the results of such analysis; and 6) the operating conditions at the time of sampling or measurement. [District Rule 2520, 9.4.1] Federally Enforceable Through Title V Permit
9. The operator shall retain records of all required monitoring data and support information for a period of at least 5 years from the date of the monitoring sample, measurement, or report. Support information includes copies of all reports required by the permit and, for continuous monitoring instrumentation, all calibration and maintenance records and all original strip-chart recordings. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate. Any amendments to these Facility-wide Requirements that affect specific Permit Units may constitute modification of those Permit Units.

Facility Name: FAIRMEAD LANDFILL
Location: 21739 ROAD 19, CHOWCHILLA, CA 93610
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10. The operator shall submit reports of any required monitoring at least every six months unless a different frequency is required by an applicable requirement. All instances of deviations from permit requirements must be clearly identified in such reports. [District Rule 2520, 9.5.1] Federally Enforceable Through Title V Permit
11. Deviations from permit conditions must be promptly reported, including deviations attributable to upset conditions, as defined in the permit. For the purpose of this condition, promptly means as soon as reasonably possible, but no later than 10 days after detection. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken. All required reports must be certified by a responsible official consistent with section 10.0 of District Rule 2520 (6/21/01). [District Rules 2520, 9.5.2 and 1100, 7.0] Federally Enforceable Through Title V Permit
12. If for any reason a permit requirement or condition is being challenged for its constitutionality or validity by a court of competent jurisdiction, the outcome of such challenge shall not affect or invalidate the remainder of the conditions or requirements in that permit. [District Rule 2520, 9.7] Federally Enforceable Through Title V Permit
13. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. [District Rule 2520, 9.8.2] Federally Enforceable Through Title V Permit
14. The permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [District Rule 2520, 9.8.3] Federally Enforceable Through Title V Permit
15. The permit does not convey any property rights of any sort, or any exclusive privilege. [District Rule 2520, 9.8.4] Federally Enforceable Through Title V Permit
16. The Permittee shall furnish to the District, within a reasonable time, any information that the District may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the District copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to EPA along with a claim of confidentiality. [District Rule 2520, 9.8.5] Federally Enforceable Through Title V Permit
17. The permittee shall pay annual permit fees and other applicable fees as prescribed in Regulation III of the District Rules and Regulations. [District Rule 2520, 9.9] Federally Enforceable Through Title V Permit
18. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to enter the permittee's premises where a permitted source is located or emissions related activity is conducted, or where records must be kept under condition of the permit. [District Rule 2520, 9.13.2.1] Federally Enforceable Through Title V Permit
19. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. [District Rule 2520, 9.13.2.2] Federally Enforceable Through Title V Permit
20. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to inspect at reasonable times any facilities, equipment, practices, or operations regulated or required under the permit. [District Rule 2520, 9.13.2.3] Federally Enforceable Through Title V Permit
21. Upon presentation of appropriate credentials, a permittee shall allow an authorized representative of the District to sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements. [District Rule 2520, 9.13.2.4] Federally Enforceable Through Title V Permit
22. No air contaminants shall be discharged into the atmosphere for a period or periods aggregating more than 3 minutes in any one hour which is as dark or darker than Ringelmann #1 or equivalent to 20% opacity and greater, unless specifically exempted by District Rule 4101 (02/17/05). If the equipment or operation is subject to a more stringent visible emission standard as prescribed in a permit condition, the more stringent visible emission limit shall supersede this condition. [District Rule 4101, and County Rules 401 (in all eight counties in the San Joaquin Valley)] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

23. No person shall manufacture, blend, repackage, supply, sell, solicit or apply any architectural coating with a VOC content in excess of the corresponding limit specified in Table of Standards 1 effective until 12/30/10 or Table of Standards 2 effective on and after 1/1/11 of District Rule 4601 (12/17/09) for use or sale within the District. [District Rule 4601, 5.1] Federally Enforceable Through Title V Permit
24. All VOC-containing materials subject to Rule 4601 (12/17/09) shall be stored in closed containers when not in use. [District Rule 4601, 5.4] Federally Enforceable Through Title V Permit
25. The permittee shall comply with all the Labeling and Test Methods requirements outlined in Rule 4601 sections 6.1 and 6.3 (12/17/09). [District Rule 4601, 6.1 and 6.3] Federally Enforceable Through Title V Permit
26. With each report or document submitted under a permit requirement or a request for information by the District or EPA, the permittee shall include a certification of truth, accuracy, and completeness by a responsible official. [District Rule 2520, 9.13.1 and 10.0] Federally Enforceable Through Title V Permit
27. If the permittee performs maintenance on, or services, repairs, or disposes of appliances, the permittee shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. [40 CFR 82 Subpart F] Federally Enforceable Through Title V Permit
28. If the permittee performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the permittee shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. [40 CFR Part 82, Subpart B] Federally Enforceable Through Title V Permit
29. Disturbances of soil related to any construction, demolition, excavation, extraction, or other earthmoving activities shall comply with the requirements for fugitive dust control in District Rule 8021 unless specifically exempted under Section 4.0 of Rule 8021 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8021 and 8011] Federally Enforceable Through Title V Permit
30. Outdoor handling, storage and transport of any bulk material which emits dust shall comply with the requirements of District Rule 8031, unless specifically exempted under Section 4.0 of Rule 8031 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8031 and 8011] Federally Enforceable Through Title V Permit
31. An owner/operator shall prevent or cleanup any carryout or trackout in accordance with the requirements of District Rule 8041 Section 5.0, unless specifically exempted under Section 4.0 of Rule 8041 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8041 and 8011] Federally Enforceable Through Title V Permit
32. Whenever open areas are disturbed, or vehicles are used in open areas, the facility shall comply with the requirements of Section 5.0 of District Rule 8051, unless specifically exempted under Section 4.0 of Rule 8051 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8051 and 8011] Federally Enforceable Through Title V Permit
33. Any paved road or unpaved road shall comply with the requirements of District Rule 8061 unless specifically exempted under Section 4.0 of Rule 8061 (8/19/2004) or Rule 8011 (8/19/2004). [District Rule 8061 and Rule 8011] Federally Enforceable Through Title V Permit
34. Any unpaved vehicle/equipment area that anticipates more than 50 Average annual daily Trips (AADT) shall comply with the requirements of Section 5.1.1 of District Rule 8071. Any unpaved vehicle/equipment area that anticipates more than 150 vehicle trips per day (VDT) shall comply with the requirements of Section 5.1.2 of District Rule 8071. On each day that 25 or more VDT with 3 or more axles will occur on an unpaved vehicle/equipment traffic area, the owner/operator shall comply with the requirements of Section 5.1.3 of District Rule 8071. On each day when a special event will result in 1,000 or more vehicles that will travel/park on an unpaved area, the owner/operator shall comply with the requirements of Section 5.1.4 of District Rule 8071. All sources shall comply with the requirements of Section 5.0 of District Rule 8071 unless specifically exempted under Section 4.0 of Rule 8071 (9/16/2004) or Rule 8011 (8/19/2004). [District Rule 8071 and Rule 8011] Federally Enforceable Through Title V Permit
35. Any owner or operator of a demolition or renovation activity, as defined in 40 CFR 61.141, shall comply with the applicable inspection, notification, removal, and disposal procedures for asbestos containing materials as specified in 40 CFR 61.145 (Standard for Demolition and Renovation). [40 CFR 61 Subpart M] Federally Enforceable Through Title V Permit

FACILITY-WIDE REQUIREMENTS CONTINUE ON NEXT PAGE
These terms and conditions are part of the Facility-wide Permit to Operate.

36. The permittee shall submit certifications of compliance with the terms and standards contained in Title V permits, including emission limits, standards and work practices, to the District and the EPA annually (or more frequently as specified in an applicable requirement or as specified by the District). The certification shall include the identification of each permit term or condition, the compliance status, whether compliance was continuous or intermittent, the methods used for determining the compliance status, and any other facts required by the District to determine the compliance status of the source. [District Rule 2520, 9.16] Federally Enforceable Through Title V Permit
37. The permittee shall submit an application for Title V permit renewal to the District at least six months, but not greater than 18 months, prior to the permit expiration date. [District Rule 2520, 5.2] Federally Enforceable Through Title V Permit
38. When a term is not defined in a Title V permit condition, the definition in the rule cited as the origin and authority for the condition in a Title V permits shall apply. [District Rule 2520, 9.1.1] Federally Enforceable Through Title V Permit
39. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following outdated SIP requirements: Rule 401 (Madera, Fresno, Kern, Kings, San Joaquin, Stanislaus, Tulare and Merced), Rule 110 (Fresno, Stanislaus, San Joaquin), Rule 109 (Merced), Rule 113 (Madera), Rule 111 (Kern, Tulare, Kings), and Rule 202 (Fresno, Kern, Tulare, Kings, Madera, Stanislaus, Merced, San Joaquin). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
40. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rules 1100, sections 6.1 and 7.0 (12/17/92); 2010, sections 3.0 and 4.0 (12/17/92); 2031 (12/17/92); 2040 (12/17/92); 2070, section 7.0 (12/17/92); 2080 (12/17/92); 4101 (2/17/05); 4601 (12/17/09); 8021 (8/19/2004); 8031 (8/19/2004); 8041 (8/19/2004); 8051 (8/19/2004); 8061 (8/19/2004); and 8071 (9/16/2004). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
41. On April 30, 2012, the initial Title V permit was issued. The reporting periods for the Report of Required Monitoring and the Compliance Certification Report are based upon this initial permit issuance date, unless alternative dates are approved by the District Compliance Division. These reports are due within 30 days after the end of the reporting period. [District Rule 2520] Federally Enforceable Through Title V Permit

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San Joaquin Valley Air Pollution Control District

PERMIT UNIT: C-2913-1-4

EXPIRATION DATE: 03/31/2014

EQUIPMENT DESCRIPTION:

MUNICIPAL SOLID WASTE LANDFILL SERVED BY A 33.33 MMBTU/HR LEACHATE/LANDFILL GAS CONDENSATE COLLECTION SYSTEM SERVED BY A CALLIDUS TECHNOLOGIES ENCLOSED FLARE WITH UP TO 100 GAS EXTRACTION WELLS

PERMIT UNIT REQUIREMENTS

1. The landfill facility, associated equipment, and surrounding Fairmead Landfill property shall be operated and maintained in such a manner as to prevent the generation of odors which may constitute a nuisance. [District Rule 4102]
2. Air pollution control equipment shall be maintained in good operating condition and shall be operated in accordance with the manufacturer's instructions. [District Rule 4102]
3. Equipment shall be operated in such a manner as to not constitute a nuisance or annoyance to a considerable number of people. [District Rule 4102]
4. Refuse delivery trucks shall be unloaded within two hours after entering the property. [District Rule 4102]
5. Refuse shall not be stockpiled anywhere outside of the designated refuse disposal areas. Trucks waiting their turn to unload within the 2 hour unload time limitation are not considered stockpiled outside the designated refuse disposal areas. [District Rule 4102]
6. All trucks delivering refuse shall be maintained in condition to prevent leakage of solid or liquid material and shall not be leaking solid or liquid material prior to exiting the landfill site. Trucks shall be cleared of any debris to minimize nuisance emissions. [District Rule 4102]
7. The designated refuse disposal areas shall be covered at the end of each operating day and maintained as necessary to prevent the emission of nuisance odors. [District Rule 4102]
8. Permittee shall maintain an updated odor control plan detailing all methods of nuisance odor control as it applies to the facility. The odor control plan shall be made available to all employees and shall be used as a training aid for new employees. The odor control plan shall be made available for District inspection upon request. [District Rule 4102]
9. The District shall have authority to investigate possible odors alleged to originate from the facility and to make a determination of whether or not a nuisance exists, either in response to a complaint or on its own initiative. [District Rules 1070 and 4102]
10. Composting shall not be performed as part of this expansion of the landfill. If composting is proposed in the future, a new application for an Authority to Construct must be submitted. The CEQA health risk assessment for this expansion must be revised to include the impacts of additional off-road equipment that will operate at the proposed composting site and associated truck traffic if composting or any other operation that would increase off-road equipment emissions or truck traffic on-site is proposed in the future. [California Environmental Quality Act]
11. All new diesel-fueled off-road equipment greater than 25 hp that will be added in the future beyond what is currently in use shall meet an emission limit of 0.15 g-PM10/bhp-hr. [California Environmental Quality Act]
12. No air contaminant shall be released into the atmosphere which causes a public nuisance. [District Rule 4102]

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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13. The District shall be notified in writing ten days prior to the acceptance of new types of waste streams, or waste streams with significant malodorous qualities. [District Rule 4102]
14. Total Class III waste material rate received at the facility shall not exceed either 1,100 tons/day or 401,500 tons/yr. [District Rule 2201] Federally Enforceable Through Title V Permit
15. Facility-wide VOC emissions shall not exceed 19,999 lb/year. [District Rule 2201] Federally Enforceable Through Title V Permit
16. VOC emissions from the landfill and the flare shall not exceed 70.1 lb/day. [District Rule 2201] Federally Enforceable Through Title V Permit
17. Emissions from the flare shall not exceed any of the following limits: 0.06 lb-NO_x/MMBtu, 0.033 lb-SO_x/MMBtu, 0.02 lb-PM₁₀/MMBtu, 0.2 lb-CO/MMBtu, or 0.0084 lb-VOC/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
18. Total PM₁₀ emissions from the handling of soil cover shall not exceed 0.0023 lb-PM₁₀/ton of material handled. [District Rule 2201] Federally Enforceable Through Title V Permit
19. Total soil cover usage rate shall not exceed 3,478 tons per day. [District Rule 2201] Federally Enforceable Through Title V Permit
20. The heat input of the landfill gas being combusted in the flare shall not exceed 33.33 MMBtu/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
21. The flare shall be tested for compliance with the VOC emissions limit at least once every 12 months. [District Rule 2201] Federally Enforceable Through Title V Permit
22. Source testing on the flare shall be performed to demonstrate compliance with the flare NO_x and CO limits, and the NMOC destruction efficiency of 98%, or 20 ppmvd @ 3% O₂ as hexane, as required by this permit shall be conducted annually. [District Rule 2201] Federally Enforceable Through Title V Permit
23. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
24. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
25. The following test methods shall be used for VOC (ppmv) - EPA Method 25A or 25B, or ARB Method 100. [District Rule 1081] Federally Enforceable Through Title V Permit
26. Sulfur content of the landfill gas being combusted in the flare shall be determined using ASTM D 1072, D 3031, D 4084, D 3246 or double GC for H₂S and mercaptans, or draeger tubes for H₂S, or an equivalent method approved by the District. [District Rule 2201] Federally Enforceable Through Title V Permit
27. Flare NMOC emissions shall be conducted using USEPA Test Method 18, 25, 25A, or 25C. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Source testing for flare NO_x emissions shall be conducted using CARB Method 7 or Method 20. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Source testing for flare CO emissions shall be conducted using EPA Method 10 or 10B, CARB Methods 1 through 5 with 10, or CARB Method 100. [District Rule 2201] Federally Enforceable Through Title V Permit
30. Operator shall determine landfill gas fuel higher heating value annually by ASTM D 1826 or D 1945 in conjunction with ASTM D 3588 for gaseous fuels. [District Rule 2201] Federally Enforceable Through Title V Permit
31. For initial monitoring of collection devices in the expansion area, prior to initial operation, the permittee shall monitor the collectors at least once per quarter for static pressure, percent methane, percent oxygen, and temperature utilizing a District-approved portable landfill gas analyzer. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

32. For commissioning of collection devices in the expansion area, collectors shall be commissioned and continually operated if all of the following parameters are met: (1) methane percent 45% or greater; (2) oxygen percent 5% or less; (3) temperature 131 degrees F; and (4) static pressure 5.0 in H₂O or greater. [District Rule 2201] Federally Enforceable Through Title V Permit
33. For operation of collection devices in the expansion area, once the collectors are commissioned, the permittee shall monitor the collectors weekly for the first six months of operation and may switch to monthly monitoring thereafter. [District Rule 2201] Federally Enforceable Through Title V Permit
34. For surface emissions monitoring, once an area has reached final grade or within 90 days when the LFG system in the area is commissioned, whichever comes first, surface emissions shall not exceed a methane concentration of 500 parts per million above background at the surface of the landfill. [District Rule 2201] Federally Enforceable Through Title V Permit
35. For surface emissions monitoring, surface monitoring for the landfill area shall be performed quarterly. If there are any exceedances during a quarterly event, monitoring will be required monthly until three consecutive months without exceedances, which would allow a return to quarterly monitoring. [District Rule 2201] Federally Enforceable Through Title V Permit
36. For surface emissions monitoring, after an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the initial exceedance. If compliance is shown, an additional remonitoring event is required within one month of the initial exceedance. If the ten day event shows an exceedance, the permittee shall initiate correction action within five days and conduct remonitoring within ten days from the second exceedance. If compliance is shown, an additional remonitoring is required within one month of the initial exceedance. If the second ten day event shows an exceedance, the permittee shall permit and install additional landfill gas wells to correct the problem within 120 days of the initial exceedance. The permittee may utilize an alternative corrective action with prior approval from the APCO. [District Rule 2201] Federally Enforceable Through Title V Permit
37. For surface emissions monitoring, permittee shall conduct surface testing around the perimeter of the collection area and along a pattern that traverses the landfill at 30-meter intervals (or a 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. The owner or operator may establish an alternative traversing pattern that ensures equivalent coverage. [District Rule 2201] Federally Enforceable Through Title V Permit
38. For surface emissions monitoring, surface testing shall be performed using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in 40 CFR 60.755(d). [District Rule 2201] Federally Enforceable Through Title V Permit
39. For surface emissions monitoring, the portable analyzer shall meet the instrument specifications of Method 21, section 3 (except that "methane" shall replace all references to VOC). The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air. To meet the performance evaluation requirements of Method 21, section 3.1.3, the instrument evaluation procedures of Method 21, section 4.4. The calibration procedures provided in Method 21, section 4.2 shall be followed immediately before commencing a surface monitoring survey. [District Rule 2201] Federally Enforceable Through Title V Permit
40. The provisions of this permit apply at all times, except during periods of start-up, shutdown, or malfunction (as defined in 40 CFR 60.755(e)). [District Rule 2201] Federally Enforceable Through Title V Permit
41. For site-wide VOC emissions monitoring, permittee shall perform site-wide VOC emissions monitoring on an annual basis. Samples shall be collected from the existing landfill and expansion areas per the LFG collection pipes, permanent LFG sampling wells, or Tier 2 procedures as described in this permit. Collected samples shall be analyzed using EPA Methods 25C and 3C. The results shall be submitted to the District quarterly for projected site-wide VOC emissions for the following year. If the projected site-wide VOC emissions exceeds the VOC offset threshold, the applicant shall submit an Authority to Construct application to install a GCCS one year prior to the site-wide VOC emissions projected to exceed the offset threshold for the following year. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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42. Permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [District Rule 2201] Federally Enforceable Through Title V Permit
43. The NMOC emission rate shall be calculated using the equation in 40CFR60.754(a)(1)(i), if the actual year-to-year solid waste acceptance rate is known or the equation in 40CFR60.754(a)(1)(ii), if the actual year-to-year solid waste acceptance rate is unknown. The values for k, Lo, and CNMOC for both equations shall be taken from 40CFR60.754(a)(1), as appropriate. Both equations may be used if the actual year-to-year acceptance rate is known for a part of the landfill life, but unknown for another part of the landfill life. The mass of nondegradable solid waste may be subtracted from the average annual acceptance rate when calculating R, if documentation of the nature and amount of such wastes is maintained. (Tier 1 specifications) [40 CFR 60.754(a)(1) and 60.34c] Federally Enforceable Through Title V Permit
44. If the calculated NMOC emission rate is equal to or greater than 50 megagrams/year, then the landfill owner or operator shall either comply with the requirements of this permit to submit a collection and control design plan and install the system, or determine a site-specific NMOC concentration and recalculate the NMOC emission rate using Tier 2 specifications. [40 CFR 60.754(a)(2)(ii)] Federally Enforceable Through Title V Permit
45. Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) For sampling, at least 2 sample probes shall be installed per hectare of landfill surface that has retained waste for at least 2 years, up to a maximum of 50 required probes. Probes should be located in known areas of degradable solid waste. One sample of landfill gas shall be collected from each probe to determine the NMOC concentration, using EPA Method 25, 25C, another method approved by the EPA, or 18, in accordance with 40 CFR 60.754(a)(3). If EPA Method 18 is used, the minimum list of compounds to be tested shall be those published in the most recent Compilation of AP-42. If composite sampling is used, equal sample volumes are required. All samples taken shall be used in the analysis. The NMOC concentration from Method 25 or 25C shall be divided by 6 to convert from C-NMOC, as carbon to as hexane. 2) For landfills equipped with active collection systems, samples may be collected from the common header pipe before gas moving or condensate removal equipment; a minimum of 3 samples must be collected. [40 CFR 60.754(a)(3), (a)(5)] Federally Enforceable Through Title V Permit
46. Tier 2 specifications to determine the site-specific NMOC concentration shall include the following: 1) The NMOC mass emission rate shall be recalculated using the average site-specific concentration, instead of the default value, 2) If the resulting calculated mass emission rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall either comply with 60.752(b)(2), or determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using Tier 3 specifications. [40 CFR 60.754(a)(3)(i)&(ii)] Federally Enforceable Through Title V Permit
47. If the calculated NMOC mass emission rate, using the site-specific NMOC concentration, is less than 50 megagrams/year, then a periodic estimate of the emission rate report, pursuant to 60.757(b)(1) shall be submitted to the Administrator. The site-specific NMOC concentration shall be retested every 5 years, using Tier 2 specifications. [40 CFR 60.754(a)(3)(iii)] Federally Enforceable Through Title V Permit
48. Tier 3 specifications to determine the site-specific methane generation rate constant shall include the following: 1) EPA Method 2E or another method approved by the EPA shall be used, 2) The NMOC mass emission rate shall be recalculated using the average site-specific NMOC concentration and the site-specific methane generation rate constant k, instead of the default values in 40 CFR 60(a)(1), and 3) If the resulting calculated NMOC mass emission rate is equal to or greater than 50 megagrams/year, the landfill owner or operator shall comply with 60.752(b)(2). [40 CFR 60.754(a)(4), (a)(5) and (i)] Federally Enforceable Through Title V Permit
49. If Tier 3 specifications are used to determine the site-specific methane generation rate and the calculated NMOC mass emission rate is less than 50 megagrams/year, then a periodic emission rate report shall be submitted to the Administrator, pursuant to 60.757(b)(1) and the NMOC concentration shall be recalculated annually, pursuant to 60.757(b)(1), using the site-specific methane generation rate constant and the NMOC concentration obtained using Tier 2 specifications. Determination of the site-specific methane generation rate constant is performed once and used in all subsequent annual NMOC emission rate calculations. [40 CFR 60.754(a)(4)(ii)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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50. The NMOC emission rate shall be recalculated and reported to the APCO annually, except as otherwise provided in this permit, until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams/year and a collection and control system is installed or until the landfill is closed. [40 CFR 60.752(b)(1), 60.754(a), 60.757(b)] Federally Enforceable Through Title V Permit
51. If the NMOC emission rate, as reported in the annual report is less than 50 megagrams/year in each of the next 5 consecutive years, the owner or operator may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual reports for those 5 years. This estimate shall include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the 5 years. All data and calculations upon which this estimate is based shall be provided to the APCO. This estimate shall be revised at least once every 5 years. [40 CFR 60.757(b)(1)(ii)] Federally Enforceable Through Title V Permit
52. If the actual waste acceptance rate exceeds the estimated rate used in any year reported in a 5-year estimate of the NMOC emission rate, then a revised 5-year estimate shall be submitted to the APCO. The revised estimate shall cover the 5-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated acceptance rate. [40 CFR 60.757(b)(1)(ii)] Federally Enforceable Through Title V Permit
53. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the annual or 5-year emissions. [40 CFR 60.757(b)(2)] Federally Enforceable Through Title V Permit
54. If the owner or operator elects to recalculate the NMOC emission rate using Tier 2 specifications and the resulting NMOC emission rate is less than 50 megagrams/year, annual periodic reporting shall resume. The revised NMOC emission rate report, with the recalculated NMOC emission rate using Tier 2 specifications, shall be submitted within 180 days of the first Tier 1 calculated exceedance of 50 megagrams/year. [40 CFR 60.757(c)(1)] Federally Enforceable Through Title V Permit
55. If the owner or operator elects to recalculate the NMOC emission rate using Tier 3 specifications and the resulting NMOC emission rate is less than 50 megagrams/year, annual periodic reporting shall resume. The revised NMOC emission rate report, with the recalculated NMOC emission rate using Tier 3 specifications, shall be submitted within 1 year of the first Tier 1 calculated exceedance of 50 megagrams/year. [40 CFR 60.757(c)(2)] Federally Enforceable Through Title V Permit
56. If the calculated NMOC is equal to or greater than 50 megagrams/year, the owner or operator shall install a collection and control system, that effectively captures the gas generated within the landfill, within 30 months of that determination. [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756] Federally Enforceable Through Title V Permit
57. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
58. Permittee shall operate the flare at all times when the collected gas is routed to it. [District Rule 2201] Federally Enforceable Through Title V Permit
59. Gas collection system shall be operated in a manner which maximizes the amount of landfill gas extracted while preventing overdraw that can cause fires or damage the gas collection system. [District Rule 2201] Federally Enforceable Through Title V Permit
60. During maintenance of the gas collection system or incineration device, emissions of landfill gas shall be minimized during shutdown. [District Rules 2020, 7.3 and 2201] Federally Enforceable Through Title V Permit
61. Maintenance is defined as work performed on a gas collection system and/or control device in order to ensure continued compliance with District rules, regulations, and/or Permits to Operate, and to prevent its failure or malfunction. [District Rule 2201] Federally Enforceable Through Title V Permit
62. The permittee shall notify the APCO by telephone at least 24 hours before performing any maintenance work that requires the system to be shutdown. The notification shall include a description of work, the date work will be performed and the amount of time needed to complete the maintenance work. [District Rule 2201] Federally Enforceable Through Title V Permit
63. Landfill gas line from collection header shall be equipped with a gas flow rate measurement device. [District Rule 2201] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

64. A non-resettable, totalizing mass or volumetric landfill gas fuel flow meter, or other APCO approved alternative, to measure the amount of gas combusted in the enclosed flare shall be installed, utilized and maintained. [District NSR Rule] Federally Enforceable Through Title V Permit
65. Sampling ports adequate for sulfur testing shall be provided in the landfill gas manifold line to the flare. [District Rule 1081] Federally Enforceable Through Title V Permit
66. If the facility accepts contaminated soil for disposal, source sampling to determine the compliance status of an emissions source shall be witnessed or authorized by District personnel. [District Rule 4651] Federally Enforceable Through Title V Permit
67. If the facility accepts contaminated soil for disposal, the operator of the facility shall maintain a copy of the source test protocol. A copy of the source test results must be maintained for at least five years and be readily available to the APCO upon written or oral request. [District Rule 4651] Federally Enforceable Through Title V Permit
68. If the facility accepts contaminated soil for disposal, one composite sample shall be collected and analyzed for VOC for every 50 cubic yards of excavated soil that has been determined to be uncontaminated by the test method(s) specified in this permit. At least one (1) composite sample shall be collected from each storage pile within 12 hours of soil decontamination. [District Rule 4651] Federally Enforceable Through Title V Permit
69. If the facility accepts contaminated soil for disposal, a composite sample shall consist of one sample taken from the center of each of four (4) equal sectors using the procedures specified in this permit. [District Rule 4651] Federally Enforceable Through Title V Permit
70. If the facility accepts contaminated soil for disposal, samples shall be taken from at least twelve (12) inches below the surface of the pile using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab in order to reduce the loss of volatile materials; or by using a clean brass or stainless steel tube (at least twelve (12) inches long) driven into the soil with a suitable instrument. The ends of the brass tube shall then be covered with aluminum foil, then plastic end caps, and finally wrapped with a suitable tape. The samples shall then be immediately placed on ice, or dry ice, for transport to a laboratory. [District Rule 4651] Federally Enforceable Through Title V Permit
71. If the facility accepts contaminated soil for disposal, the initial boiling point of a liquid from samples of contaminated soil shall be measured in accordance with ASTM D86 for soil contaminated with petroleum liquid or ASTM D-1078 for soil contaminated with known organic chemical. [District Rule 4651] Federally Enforceable Through Title V Permit
72. If the facility accepts contaminated soil for disposal, the VOC concentration of soils shall be measured as hexane using an organic vapor analyzer, complying with EPA Reference Method 21. [District Rule 4651] Federally Enforceable Through Title V Permit
73. If the facility accepts contaminated soil for disposal, the VOC content of the soil that can be reasonably demonstrated to be contaminated only with petroleum shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. [District Rule 4651] Federally Enforceable Through Title V Permit
74. If the facility accepts contaminated soil for disposal, the VOC content of soil that is contaminated by unknown VOC-containing liquids, or that cannot be reasonably demonstrated to be contaminated only with petroleum, shall be determined by using EPA Reference Method 8015 or EPA Test Method 25D. In addition to one of the aforementioned methods, the operator shall use EPA Reference Method 8260B or the gas chromatographic method in the Leaking Underground Fuel Tank (LUFT) Manual (October 1989). [District Rule 4651] Federally Enforceable Through Title V Permit
75. If the facility accepts contaminated soil for disposal, an operator may use an equivalent alternative test method other than those listed if APCO and EPA approval has been obtained. [District Rule 4651] Federally Enforceable Through Title V Permit
76. If the facility accepts contaminated soil for disposal, when more than one test method or set of test methods is specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of this permit. [District Rule 4651] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

77. If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when excavating contaminated soil: 1) Submit a written notice according to Section 6.1 prior to commencement of excavation of known contaminated soil; 2) Monitor operation for VOC contamination at least once every 15 minutes unless the excavated soil is treated according to Section 5.2.1; 3) Excavated soil that has been detected as contaminated shall be placed in storage piles or handled as required by Section 5.2 and; 4) Excavated contaminated soil shall be decontaminated, recycled, disposed of in an approved facility, returned to excavation and permanently covered with at least six (6) inches of uncontaminated soil, or transported to a location outside of the SJVAB within thirty (30) calendar days from the time of excavation or as directed by an authorized health officer, agricultural commissioner, fire protection officer, or other authorized state or local government officer having jurisdiction. [District Rule 4651] Federally Enforceable Through Title V Permit
78. If the facility accepts contaminated soil for disposal, when handling excavated contaminated soil with VOC concentration measuring at 1,000 ppm or greater, the contaminated soil shall be sprayed with water or vapor suppressant and contaminated soil placed in sealed containers as soon as possible, but no more than 30 minutes after excavation, and handle pursuant to Section 5.1.4, or the contaminated soil loaded into trucks as soon as possible but no more than 30 minutes after excavation, moisten with additional water, cover as required in Section 5.3, and transport immediately to an approved facility, or implement other approved alternative storage methods and handle pursuant to Section 5.1.4. [District Rule 4651] Federally Enforceable Through Title V Permit
79. If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil the piles shall be clearly isolated and identifiable from storage piles of uncontaminated soil. The following is required for identification: 1) Location of the storage pile. 2) Unique identification of the storage pile. 3). The date that the storage pile was excavated. 4). Any other information deemed necessary for identification. [District Rule 4651] Federally Enforceable Through Title V Permit
80. If the facility accepts contaminated soil for disposal, when handling storage piles of contaminated soil that have been inactive for more than 60 consecutive minutes, the piles shall be treated with water or a vapor suppressant and cover with heavy-duty plastic sheeting to reduce VOC emissions and the covering shall have at least a six-foot overlap of adjacent sheets, be securely anchored, and have minimal headspace where vapors may accumulate, or covered with a layer of uncontaminated soil no less than six (6) inches deep. [District Rule 4651] Federally Enforceable Through Title V Permit
81. If the facility accepts contaminated soil for disposal, when handling contaminated soil, a visual inspection of all storage piles of contaminated soil shall be conducted at least once every 24 hours, except when operators do not report to the facility for a given 24-hour period, to ensure the integrity of the covered surfaces and compliance with Section 5.2.5. [District Rule 4651] Federally Enforceable Through Title V Permit
82. If the facility accepts contaminated soil for disposal, when handling contaminated soil, aeration of contaminated soil shall not be allowed except that which occurs during removal or addition of contaminated soil to a storage pile and this includes the use of contaminated soil in daily, intermediate, or final cover operations at disposal sites. [District Rule 4651] Federally Enforceable Through Title V Permit
83. If the facility accepts contaminated soil for disposal, the permittee shall comply with the following when transporting contaminated soil: 1) Any truck or trailer transporting contaminated soil shall be filled such that contaminated soil does not extend above the sides or rear of the truck; 2) Contaminated soil shall be treated with water or vapor suppressant and covered with an continuous heavy duty plastic sheeting or other covering to prevent spillage of contaminated soil during transport, and; 3) Chain-of-custody records shall be maintained according to Section 6.3.1 by the operators to document transfer of the transported contaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit
84. If the facility accepts contaminated soil for disposal, when decontaminating soil, VOC emissions from the decontamination of contaminated soil shall be controlled by installation and operation of a VOC collection and control device with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent. [District Rule 4651] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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85. If the facility accepts contaminated soil for disposal, when decontaminating soil, the permittee shall monitor the temperature, pressure, and flow rates of the VOC control device. [District Rule 4651] Federally Enforceable Through Title V Permit
86. If the facility accepts contaminated soil for disposal, when decontaminating soil, the VOC control device shall be operated and maintained in accordance with the manufacturer's recommendations. [District Rule 4651] Federally Enforceable Through Title V Permit
87. If the facility accepts contaminated soil for disposal, the permittee shall comply with one of the following regarding contaminated soil: 1) Return the contaminated soil to the excavation and permanently cover with six (6) inches or more of uncontaminated soil, or; 2) Decontaminate the contaminated soil to the extent that the soil is no longer considered contaminated as defined in Section 3.17, or; 3) Transport the contaminated soil to an approved disposal facility, or; 4) Transport the contaminated soil to a location outside of the SJVAB. [District Rule 4651] Federally Enforceable Through Title V Permit
88. If the facility accepts contaminated soil for disposal, when decontaminating soil, the samples from decontaminated soil (that is to be treated as uncontaminated soil) shall be obtained by using the soil sampling methods specified in this permit and shall be tested using the applicable soil sample test methods specified in the permit. [District Rule 4651] Federally Enforceable Through Title V Permit
89. If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the notice of excavation activities: Names and addresses of operator(s) performing and responsible for excavation, location of site where excavation will occur, scheduled starting date of excavation (if the excavation does not commence on the start date, re-notification is required), estimated volume of soil to be excavated, estimated volume (in gallons) of VOC liquid spilled in the soil, if known. [District Rule 4651] Federally Enforceable Through Title V Permit
90. If the facility accepts contaminated soil for disposal, where emergency excavation is conducted at the direction of an authorized officer, the permittee shall include the following information: Name, title and contact information of the authorized officer, and a copy of the signed emergency declaration from the authorized officer. [District Rule 4651] Federally Enforceable Through Title V Permit
91. If the facility accepts contaminated soil for disposal, the permittee shall include the following information in the written notice when excavating contaminated soil: Names and addresses of operator(s) performing and responsible for excavation, address of site where excavation occurred, date(s) of excavation, estimated volume of contaminated soil excavated, estimated average VOC content of the contaminated soil or estimated volume of VOC contaminant, and final disposition of the contaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit
92. If the facility accepts contaminated soil for disposal, the permittee shall identify each storage pile with the following information: Location of the storage pile, unique identification of the storage pile, and the date that the soil storage pile was excavated. [District Rule 4651] Federally Enforceable Through Title V Permit
93. If the facility accepts contaminated soil for disposal, the operator of a VOC control device used to decontaminate excavated soil shall demonstrated compliance with a VOC destruction or removal efficiency of at least 95%, or any other approved VOC control device demonstrated to be equivalent, before operation of such system. [District Rule 4651] Federally Enforceable Through Title V Permit
94. Control system VOC emissions shall be determined by Method 25, 25C, or Method 18. [40 CFR 60.754(d)] Federally Enforceable Through Title V Permit
95. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall submit an equipment removal report to the District 30 days prior to removal or cessation of operation of the control equipment. The report shall conform to the requirements of 40 CFR 60.757(e)(1). [40 CFR 60.757(e)] Federally Enforceable Through Title V Permit
96. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall submit to the District semiannual reports of the recorded information in 40 CFR 60.757(f)(1-6). The initial report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. [40 CFR 60.757(f), 40 CFR 63.1980(a)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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97. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, the initial annual report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR 60.8. The initial report shall include information specified in 40 CFR 60.757(g)(1-6). [40 CFR 60.757(f), (g)] Federally Enforceable Through Title V Permit
98. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, each owner or operator seeking to comply with 40 CFR 60.752(b)(2)(iii) shall include information specified in 40 CFR 60.757(g)(1-6) with the initial performance test report required under 40 CFR Part 60.8. [40 CFR 60.757(g)] Federally Enforceable Through Title V Permit
99. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, each owner or operator shall keep for at least 5 years up-to-date, readily accessible, on-site records of the maximum design capacity, the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. [District Rule 2520, 9.4.2 and 40 CFR 60.758(a)] Federally Enforceable Through Title V Permit
100. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, the following constitute exceedances that shall be recorded and reported under 40 CFR 60.757(f): All 3-hour periods of operation during which the average combustion temperature was more than 28 °C below the average combustion temperature during the most recent performance test (flare source test). [40 CFR 60.758(c)] Federally Enforceable Through Title V Permit
101. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs 60.758(b)(1) through (b)(4) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal. [40 CFR 60.758(b)] Federally Enforceable Through Title V Permit
102. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall keep the following records: (1)(i) the maximum expected gas generation flow rate as calculated in 60.755(a)(1). The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the APCO; (ii) the density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 60.759(a)(1); (2)(i) the average combustion temperature measured at least every 15 minutes and averaged over the same time period of the performance test; (ii) the percent reduction of NMOC determined as specified in 60.752(b)(2)(ii)(B) achieved by the control device. [40 CFR 60.758(b)(1) and (2)] Federally Enforceable Through Title V Permit
103. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, permittee shall keep up-to-date, readily accessible continuous records of the indication of flow to the enclosed flare, or the indication of bypass flow, or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, if applicable. [40 CFR 60.758(c) and 60.34c] Federally Enforceable Through Title V Permit
104. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), permittee shall keep, for the life of the collection system, an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector. Permittee shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or non-degradable waste excluded from collection as well as any nonproductive areas excluded from collection. [40 CFR 60.758(d)] Federally Enforceable Through Title V Permit
105. Once the facility has exceeded 50 Mg/year of NMOCs and triggered the full requirements of 40 CFR Part 60, Subpart WWW, except as provided in 60.752(b)(2)(i)(B), permittee shall keep for at least 5 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 60.753, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance. [40 CFR 60.758(e)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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106. The gas collection and control system shall comply with the operational standards of 40 CFR 60.753, the compliance provisions of 40 CFR 60.755, the monitoring provisions of 40 CFR 60.756, the reporting and record keeping requirements of 40 CFR 60.757 and 60.758, and the requirements of 40 CFR 60.759 (for active collection systems). [40 CFR 60.752(b)(2)(ii), 60.753, 60.755, 60.756, 60.757, 60.758, 60.759, 62.14353]
107. Permittee shall maintain records of system inspections including: date, time and inspection results. [District Rule 2201] Federally Enforceable Through Title V Permit
108. Permittee shall maintain records of maintenance related or other collection system and control device downtime, including individual well shutdown. [District Rule 2201] Federally Enforceable Through Title V Permit
109. The operator shall record emission control device source tests (emissions of CO, NO_x, and VOC) in pounds per MMBtu heat input. Operator shall also record VOC destruction/treatment efficiency. [District Rule 2201] Federally Enforceable Through Title V Permit
110. Daily records of the weight of materials received (tons) - including Class II/III waste material, Class II soil cover, and clean soil cover - and daily records of all soil organic content test results and certifications, shall be maintained, kept on site for a period of five years, and made available to District staff upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
111. A record of continuous flare combustion temperature, continuous volumetric gas flow rate, net heating value of landfill gas being combusted, daily landfill gas fuel consumption, and hourly heat input shall be maintained, retained on the premises for a period of at least five years and made readily available for District inspection upon request. [District Rule 2201 and 40 CFR 64] Federally Enforceable Through Title V Permit
112. Records of daily landfill gas flow rate and annual test results of higher heating value of landfill gas shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
113. The facility shall maintain records of annual throughput, material usage, and other information necessary to demonstrate that facility-wide emissions are less than ten tons per year for both NO_x and VOC. [District Rules 2201 and 4311] Federally Enforceable Through Title V Permit
114. The permittee shall maintain the following records at the time custody is transferred: the identities and business addresses of the relevant parties such as the generator, transporter, and storage/treatment facilities, the volume of contaminated soil generated or received, all analytical data associated with the contaminated soil (except during an emergency evacuation of soil), the date and location of excavation of the contaminated soil, and the date and signatures of the operators at the time custody is transferred. [District Rule 4651] Federally Enforceable Through Title V Permit
115. The permittee shall maintain visual inspection records at least once every 24 hours except when operators do not report to the facility for that given 24 hours and the records shall include location and unique identification of each specific pile and name, date, and signature of operator inspecting the storage piles. [District Rule 4651] Federally Enforceable Through Title V Permit
116. The permittee shall maintain the following records for VOC concentration readings: the identities and business addresses of the relevant parties such as the generator or storage/treatment facilities, the volume of contaminated or decontaminated soil, date of contaminated or decontaminated soil, VOC concentration reading, and the origin of the contaminated or decontaminated soil. [District Rule 4651] Federally Enforceable Through Title V Permit
117. The permittee shall maintain records of calibrations for all approved monitoring instruments. [District Rule 4651] Federally Enforceable Through Title V Permit
118. Chain-of-custody records shall be kept by the operators to document possession of a sample from the time it is taken in the field until it is analyzed. [District Rule 4651] Federally Enforceable Through Title V Permit
119. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
120. Each owner or operator, required by 40 CFR 60.752(b)(2) of subpart WWW to install a collection and control system, shall comply with the requirements in 40 CFR 63.1960 through 63.1985 and with the general provisions specified in Table 1 of 40 CFR 63 Subpart AAAA. [40 CFR 63.1955(b)] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

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121. For approval of collection and control systems that include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions, owner or operator must follow the procedures in 40 CFR 60.752(b)(2). If alternatives have already been approved under 40 CFR Part 60 Subpart WWW, these alternatives can be used to comply with 40 CFR 63 Subpart AAAA, except that all affected sources must comply with the startup, shutdown, and malfunction (SSM) requirements in Subpart A of 40 CFR 63 as specified in Table 1 of 40 CFR 63 Subpart AAAA and all affected sources must submit compliance reports every 6 months as specified in 40 CFR 63.1980(a) and (b), including information on all deviations that occurred during the 6-month reporting period. Deviations for continuous emission monitors or numerical continuous parameter monitors must be determined using a 3 hour monitoring block average. [40 CFR 63.1955(c)] Federally Enforceable Through Title V Permit
122. During operation of the enclosed flare, the permittee shall continuously monitor and record combustion chamber temperature. The temperature readings shall not be less than 28 degree C (50 degree F) below the average combustion temperature determined during the most recent flare source test, averaged over a 3-hour period. Upon detecting any temperature excursion lower than 28 degree C (50 degree F) below the source test average combustion temperature, averaged over a 3-hour period, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64 and 40 CFR 60.758(c)(1)(i)] Federally Enforceable Through Title V Permit
123. The enclosed flare burner and its associated components and the vapor collection system shall be inspected on an annual basis. The records of inspection shall at least contain date and time of inspection, identification of the person performing an inspection, parts replacement and repairs, and all maintenance actions taken. The records shall be kept and maintained for compliance inspection upon request. [40 CFR 64] Federally Enforceable Through Title V Permit
124. The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64] Federally Enforceable Through Title V Permit
125. The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64] Federally Enforceable Through Title V Permit
126. If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Attachment D

EPA Comments/District Response

EPA Comments/District Response

The Environmental Protection Agency (EPA) submitted comments regarding the District's analysis and preliminary decision.

PUBLIC COMMENT #1

Permit Unit: C-2913-1-4 – Landfill gas collection equipment with enclosed flare

In the evaluation of CAM applicability for the above listed equipment, the District states that CAM does not apply because the permit unit is exempt from CAM as it is subject to a post-1990 NSPS and NESHAP. EPA agrees that NSPS and NESHAP emission limitations and standards proposed after November 15, 1990 are not subject to CAM. However, this provision only applies to any emission limitations or standards required by such NSPS or NESHAP. It is not clear that all emission limitations or standards for this permit unit are due to NSPS or NESHAP standards (e.g. Condition 17 and 18). The District must revise its CAM applicability analysis and ensure all emission limitations and standards are appropriately evaluated for CAM applicability.

DISTRICT RESPONSE

The following conditions have been added to C-2913-1-4 to ensure compliance with the requirements of Compliance Assurance Monitoring (CAM):

- During operation of the enclosed flare, the permittee shall continuously monitor and record combustion chamber temperature. The temperature readings shall not be less than 28 degree C (50 degree F) below the average combustion temperature determined during the most recent flare source test, averaged over a 3-hour period. Upon detecting any temperature excursion lower than 28 degree C (50 degree F) below the source test average combustion temperature, averaged over a 3-hour period, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64 and 40 CFR 60.758(c)(1)(i)] Y
- The enclosed flare burner and its associated components and the vapor collection system shall be inspected on an annual basis. The records of inspection shall at least contain date and time of inspection, identification of the person performing an inspection, parts replacement and repairs, and all maintenance actions taken. The records shall be kept and maintained for compliance inspection upon request. [40 CFR 64]
- The permittee shall comply with the compliance assurance monitoring operation and maintenance requirements of 40 CFR part 64.7. [40 CFR 64]
- The permittee shall comply with the recordkeeping and reporting requirements of 40 CFR part 64.9. [40 CFR 64]

- If the District or EPA determine that a Quality Improvement Plan is required under 40 CFR 64.7(d)(2), the permittee shall develop and implement the Quality Improvement Plan in accordance with 40 CFR part 64.8. [40 CFR 64]

Facility Comments/District Response

Fairmead Landfill submitted a comment regarding the District's analysis and preliminary decision.

FACILITY COMMENT #2

Permit Unit: C-2913-1-4 – Landfill gas collection equipment with enclosed flare

1. During operation of the enclosed flare, the permittee shall continuously monitor and record combustion chamber temperature. The temperature readings shall be between 1550 °F - 1800 °F, averaged over a 3-hour period. Upon detecting any temperature excursion lower than 1550 °F, averaged over a 3-hour period, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR part 64]

Max limit – We wish to note that the landfill NSPS regulations (NSPS Part WWW) to which the Fairmead flare will eventually be subject, does not include a maximum flare temperature limit. Indeed, the higher the temperature the better the VOC destruction efficiency. We therefore, request that the max temperature limit be removed;

Min limit – We request that the minimum flare temperature limit be reduced to 1400 Fahrenheit initially, and then be reset based on the initial stack test results; and adjusted on an ongoing basis based on subsequent stack test results. The 1400 F minimum limit is widely considered as BACT among air districts in California for landfill gas flares, and we believe it is a reasonable minimum to set prior to initial stack testing. NSPS regulations (40 CFR 758(c)(1) allow for minimum flare temperature to be adjusted per average temperature in the most recent stack test that demonstrates compliance with the VOC destruction efficiency limit (average test temperature minus 28 degrees Celsius). We request that the minimum temperature be allowed to be adjusted in accordance with this NSPS provision.

DISTRICT RESPONSE

The following condition has been added to C-2913-1-4 to comply with CAM and NSPS requirements:

- During operation of the enclosed flare, the permittee shall continuously monitor and record combustion chamber temperature. The temperature

readings shall not be less than 28 degree C (50 degree F) below the average combustion temperature determined during the most recent flare source test, averaged over a 3-hour period. Upon detecting any temperature excursion lower than 28 degree C (50 degree F) below the source test average combustion temperature, averaged over a 3-hour period, the permittee shall investigate the excursion and take corrective action to minimize excessive emissions and prevent recurrence of the excursion as expeditiously as practicable. [40 CFR 64 and 40 CFR 60.758(c)(1)(i)] Y