

**Bay Area Air Quality Management District**

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**Permit Evaluation  
and  
Statement of Basis  
for  
MAJOR FACILITY REVIEW PERMIT  
MINOR REVISION**

for  
**Browning-Ferris Industries of CA, Inc.  
Facility #A2266**

**Facility Address:**  
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Half Moon Bay, CA 94019

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Applications: 7841 and 8229

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# ENGINEERING EVALUATION and STATEMENT of BASIS

Browning-Ferris Industries of CA, Inc.; PLANT # 2266

APPLICATIONS # 7841 and 8229

## A. BACKGROUND

Browning-Ferris Industries of CA, Inc. (BFI) operates the Los Trancos Canyon Landfill Facility located on Ox Mountain in Half Moon Bay, CA. This facility includes an active landfill, three landfill gas flares, a non-retail gasoline dispensing facility (GDF), and stockpiles of green waste.

The Los Trancos Canyon Landfill (S-1) has two distinct fill areas. The upper canyon area has reached full capacity and has been inactive since 1995, while the lower canyon area is actively accepting waste (about 900,000 tons/year). The two fill areas combined contain 16 million tons of decomposable refuse (about 70% of maximum capacity). Each fill area is equipped with a landfill gas collection system, and the collected landfill gas is vented to flares for abatement.

### Application # 7841:

In 2004, BFI replaced their three existing flares (A-4, A-5, and A-6) with three new flares (A-7, A-8, and A-9) pursuant to Application # 7841. The existing flares were experiencing excessive down time due to their inability to comply with all permit condition limits and regulatory requirements. The new flares were necessary to ensure that landfill gas is collected and controlled on a continuous basis and to provide a higher compliance safety margin for the facility. The District revised the MFR Permit for this site on January 5, 2004 to include the new flares and various related permit condition revisions. The District issued an Authority to Construct for the three new flares on January 23, 2004.

BFI shut down A-6 on March 31, 2004 began operating A-9 on April 16, 2004. BFI shut down A-4 and A-5 on May 24, 2004 and began operating A-7 and A-8 on June 12, 2004. Source tests were conducted on A-7 and A-8 on June 29-30, 2004. These tests successfully demonstrated compliance with all applicable limits. The District issued the Permits to Operate for the A-7 and A-8 Landfill Gas Flares on October 7, 2004.

A source test was conducted on the A-9 Landfill Gas Flare on July 1, 2004. This test showed that A-9 was complying with the NO<sub>x</sub>, CO, and NSPS limits. However, it did not show compliance with the Regulation 8-34-301.3 NMOC limit. Subsequent review of this test revealed significant inconsistencies among the runs and possible contamination of the exhaust sample during the GC analysis. On September 2004, the Source Test Section determined that this test was unacceptable and requested that BFI repeat the initial compliance demonstration test for A-9. Upon further examination of this flare's performance, BFI and the flare manufacturer found that the combustion zone temperature of A-9 was behaving erratically and was not consistent with secondary temperature measurements. The flare manufacturer replaced thermocouples, wiring, and other parts of the process control system to correct the erratic temperatures. After completing repairs, the source test was repeated on November 9 and 10, 2004. This test successfully demonstrated compliance with all applicable requirements. The District issued the Permit to Operate for A-9 on February 2, 2005.

Since the A-3, A-4, and A-5 Flares have been permanently removed from the site, the District is proposing to remove these flares from the District and MFR permits. The District is proposing several administrative revisions to the MFR Permit and Condition # 10164 that will delete references to the three old flares (A-4, A-5, and A-6), remove obsolete text, and correct errors.

Application # 8229:

On September 17, 2003, the District issued an Authority to Construct for a modification of the S-5 Non-Retail Gasoline Dispensing Facility – G # 8524 – pursuant to Application # 8229. This modification was required by Executive Orders G-70-97-A and G-70-194 from the California Air Resources Board (CARB) and included the replacement of the existing coaxial Phase I vapor balance system with a two-point Phase I vapor control system. The two-point system is expected to improve vapor control during tank filling operations. The District issued the Permit to Operate for the new equipment on November 6, 2003.

As a routine procedure, the District adds standardized permit conditions to gasoline dispensing facilities whenever the gasoline dispensing facility is modified. For this site, the District added the standard annual static pressure test requirement (Condition # 16516) to S-5. This testing is currently required by Regulation 8-7-407 and is currently cited in the MFR permit. Therefore, these condition changes do not add any new monitoring requirements. A minor MFR Permit revision is needed to reflect the equipment modifications and condition changes that were authorized under Application # 8229.

## **B. EMISSIONS**

The permit condition changes for the S-1 Los Trancos Canyon Landfill and A-7, A-8, and A-9 Landfill Gas Flares do not impact emission limits and will not cause any emission increases.

The permit condition changes for the S-5 Non-Retail GDF do not affect emission limits. Since the physical modification at S-5 improves vapor recovery during tank filling operations, this action will not result in any emission increases.

## **C. STATEMENT OF COMPLIANCE**

Regulation 2, Rule 1:

Issuance of the Permit to Operate for the new flares involves a change of permit conditions, which does not involve any physical modifications or any emission increases. Therefore, this action is categorically exempt from CEQA review pursuant to Regulation 2-1-312.1.

The issuance of the Authority to Construct and Permit to Operate for the modifications of the S-5 Non-Retail Gasoline Dispensing Facility (GDF) followed the fixed standards and objective measurements in District Permit Handbook Chapter 3.2 “Gasoline Dispensing Facilities”. Therefore, this action was considered ministerial pursuant to Regulation 2-1-311. No further CEQA review was required.

The project is over 1000 feet from the nearest school and is therefore not subject to the public notification requirements of Regulation 2-1-412.

New Source Review (Regulation 2, Rule 2 and Risk Management Policy):

The condition changes related to the flares and GDF will not result in any emission increases. Therefore, this action is not subject to New Source Review (NSR) for criteria pollutants or toxic air contaminants (TACs). The Best Available Control Technology (BACT), Offsets, and Prevention of Significant Deterioration (PSD) requirements of Regulation 2, Rule 2 do not apply to this permitting action. The risk screening and T-BACT requirements of the Risk Management Policy do not apply to this action.

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Regulation 2, Rule 6:

This facility is subject to the Operating Permit requirements of Title V of the federal Clean Air Act (40 CFR, Part 70) and BAAQMD Regulation 2, Rule 6, Major Facility Review (MFR), because it is a major facility for NO<sub>x</sub> and CO emissions and also because it is a designated facility (since it is subject to the NSPS for MSW Landfills, 40 CFR Part 60, Subpart WWW). Therefore, this facility is required to have an MFR permit pursuant to Regulations 2-6-301 and 2-6-304.

The initial MFR Permit for this facility was issued on October 1, 2001 and has been revised three times: March 7, 2002 (minor revision), August 12, 2003 (minor revision), and January 5, 2004 (significant revision). These revisions amended the landfill gas collection system description, added the S-12 stockpiles, incorporated the NESHAPs for MSW Landfills, added the A-7, A-8, and A-9 flares, and made numerous corrections and updates to standard permit text, regulatory citations, and amendment dates.

This application will modify permit conditions and will therefore require a revision of the current MFR permit. The definition of significant revision is discussed below to determine if this application constitutes a significant MFR revision.

- Regulation 2-6-226.1 and 226.2: This MFR permit revision does not involve the incorporation of a change considered to be a major modification, or a modification under NSPS, NESHAPs, or Section 112 of the CAA.
- Regulation 2-6-226.3: This MFR permit revision does not involve any new monitoring requirements nor the relaxation of any monitoring, record keeping or reporting requirements.
- Regulation 2-6-226.4: This MFR permit revision does not establish or change any limits to avoid applicable requirements.
- Regulation 2-6-226.5: This MFR permit revision does not involve the establishment of or change to a case-by-case emission limit or standard.
- Regulation 2-6-226.7: This MFR permit revision does not involve the incorporation of any requirements promulgated by the EPA.

Since this application does not meet any of the above criteria for a significant revision, this application will be handled as a minor revision to the MFR Permit.

The proposed MFR permit revisions related to Permit Applications # 7841 and # 8229 are described later in this document.

Regulation 8, Rule 7:

The September 29, 2003 static pressure test on S-5 demonstrated that the new two-point Phase I vapor control system complies with the Regulation 8-7-301.6 requirement to be "vapor tight". S-5 is expected to continue to comply with all other applicable limits listed in Table VII-B.

Flare Emission Limits:

The emission limits for the A-7, A-8, and A-9 Flares are compared to the 2004 source test results in the table below.

Table 1. Summary of Flare Limits and Source Test Results

	A-7	A-8	A-9	Permit Limits for All Flares
Source Test Date	6/12/04	6/12/04	11/9/04	
Average Flare Temperature, °F			1438	≥ 1400
NOx, ppmv at 15% O <sub>2</sub>	36.3	38.9	36.8	≤ 39
NOx, pounds/MM BTU (as NO <sub>2</sub> )	0.042	0.045	0.051	≤ 0.052
CO, ppmv at 15% O <sub>2</sub>	134.2	70.9	35.4	≤ 184
CO, pounds/MM BTU	0.095	0.050	0.026	≤ 0.15
NMHC, ppmv as C <sub>1</sub> at 3% O <sub>2</sub>	1.94	1.36	3.01	< 30 BAAQMD 8-34-301.3
NMHC, ppmv as C <sub>6</sub> at 3% O <sub>2</sub>	0.32	0.23	0.50	< 20 40 CFR 60.752(b)(2)(iii)(B)
NMHC, destruction efficiency (by weight)	99.4%	99.7%	99.6%	≥ 98% OR comply with above NMHC limits

#### D. MFR PERMIT MODIFICATIONS

##### Section I:

No changes are proposed to this section.

##### Section II:

As discussed in Section A of this report, the S-5 Gasoline Dispensing Facility has been modified pursuant to Application # 8229. This modification is reflected in Table II-A below. In addition, the A-4, A-5, and A-6 Landfill Gas Flares have been permanently removed from this site pursuant to Application # 7841. Therefore, A-4, A-5, and A-6 are being removed from Table II-B, as shown below.

**Table II A - Permitted Sources**

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

S-#	Description	Make or Type	Model	Capacity
1	Los Trancos Canyon Landfill: (Active Solid Waste Disposal Site with Active Gas Collection System)	Accepting MSW, agricultural waste, demolition waste, auto and tire waste, sewage sludge, and asbestos.		Max. Design Capacity (waste and cover, excluding final cover) = 49.0 E6 yd <sup>3</sup> (37.5 E6 m <sup>3</sup> ) Max. Waste Acceptance Rate = 3598 tons/day Max. Cumulative Waste In-Place = 22.74 million tons (20.6 million Mg)
	Upper Canyon	Vertical Wells		76 wells
	Lower Canyon	Vertical Wells Horizontal Collectors		15 wells 47 collectors (4 headers)

**Table II A - Permitted Sources**

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

S-#	Description	Make or Type	Model	Capacity
5	Non-Retail Gasoline Dispensing Facility _G#_8524 (Phase I is- <del>Coaxial Two Point</del> , Phase II is Vapor Balance)	1 Gasoline Nozzle 1 Gasoline Tank 2 Diesel Tanks (exempt) 2 Diesel Nozzles (exempt)	<del>OPW 11V</del> <u>EW 4005</u> Above-ground Above-ground EMCO Wheaton A845 and WOG 600	10 gpm 1000 gallon capacity 1000 gallon capacity and 10,000 gallon capacity 8 gpm and 35.3 gpm
12	Stockpile of Green Waste	handling and storing yard and green waste		480 tons/day and 70,000 tons/year

**Table II B – Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
4	<del>Modified Landfill Gas Flare, burning propane (during start up only) and landfill gas, 30 MM BTU/hour</del>	<del>S-1</del>	<del>BAAQMD 8-34-301.3, See also Table IV-A</del>	<del>Minimum combustion zone temperature of: 1600 °F (3-hour average), See also Table VII-A</del>	<del>Either 98% destruction of NMOC or &lt;30 ppmv of NMOC, as CH<sub>4</sub>, at 3% O<sub>2</sub>, dry</del>
5	<del>Replacement Landfill Gas Flare, burning propane (during start up only) and landfill gas, 60 MM BTU/hour</del>	<del>S-1</del>	<del>BAAQMD 8-34-301.3, See also Table IV-A</del>	<del>Minimum combustion zone temperature of: 1455 °F (3-hour average), See also Table VII-A</del>	<del>Either 98% destruction of NMOC or &lt;30 ppmv of NMOC, as CH<sub>4</sub>, at 3% O<sub>2</sub>, dry</del>
6	<del>New Landfill Gas Flare, burning propane (during start up only) and landfill gas, 126 MM BTU/hour</del>	<del>S-1</del>	<del>BAAQMD 8-34-301.3, See also Table IV-A</del>	<del>Minimum combustion zone temperature of: 1407 °F (3-hour average), See also Table VII-A</del>	<del>Either 98% destruction of NMOC or &lt;30 ppmv of NMOC, as CH<sub>4</sub>, at 3% O<sub>2</sub>, dry</del>

**Table II B – Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
7	Landfill Gas Flare, 60 MM BTU/hour, burning propane (during start-up only) and landfill gas	S-1	BAAQMD 8-34-301.3, See also Table IV-A	Minimum combustion zone temperature of: 1400 °F (3-hour average), See also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH <sub>4</sub> , at 3% O <sub>2</sub> , dry
8	Landfill Gas Flare, 60 MM BTU/hour, burning propane (during start-up only) and landfill gas	S-1	BAAQMD 8-34-301.3, See also Table IV-A	Minimum combustion zone temperature of: 1400 °F (3-hour average), See also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH <sub>4</sub> , at 3% O <sub>2</sub> , dry
9	Landfill Gas Flare, 126 MM BTU/hour, burning propane (during start-up only) and landfill gas	S-1	BAAQMD 8-34-301.3, See also Table IV-A	Minimum combustion zone temperature of: 1400 °F (3-hour average), See also Table VII-A	Either 98% destruction of NMOC or < 30 ppmv of NMOC, as CH <sub>4</sub> , at 3% O <sub>2</sub> , dry

Section III:

EPA has revised several regulations and approved the adoption of several District regulations into the SIP. These changes are reflected in Table III below.

**Table III  
Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/2/01)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y <sup>1</sup>
BAAQMD Regulation 2, Rule 1	General Requirements (8/1/01)	N
BAAQMD 2-1-429	Federal Emissions Statement (6/7/95)	Y
SIP Regulation 2, Rule 1	General Requirements (1/26/99)	Y <sup>1</sup>
BAAQMD Regulation 5	Open Burning (3/6/02)	N
SIP Regulation 5	Open Burning (9/4/98)	Y <sup>1</sup>
BAAQMD Regulation 6	Particulate Matter and Visible Emissions (12/19/90)	N
BAAQMD Regulation 7	Odorous Substances (3/17/82)	N
BAAQMD Regulation 8, Rule 1	Organic Compounds - General Provisions (6/15/94)	Y

**Table III**  
**Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/01)	<del>NY</del>
<del>SIP Regulation 8, Rule 3</del>	<del>Organic Compounds – Architectural Coatings (2/18/98)</del>	<del>Y<sup>+</sup></del>
BAAQMD Regulation 8, Rule 4	Organic Compounds - General Solvent and Surface Coating Operations (10/16/02)	<del>NY</del>
<del>SIP Regulation 8, Rule 4</del>	<del>Organic Compounds – General Solvent and Surface Coating Operations (12/23/97)</del>	<del>Y<sup>+</sup></del>
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	<del>NY</del>
<del>SIP Regulation 8, Rule 16</del>	<del>Organic Compounds – Solvent Cleaning Operations (12/9/94)</del>	<del>Y<sup>+</sup></del>
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)	Y
BAAQMD 8-40-116	Exemption, Small Volume	Y
BAAQMD 8-40-117	Exemption, Accidental Spills	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds - Air Stripping and Soil Vapor Extraction Operations (6/15/94)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (3/22/95)	Y <sup>1</sup>
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/02)	N
SIP Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (2/26/02)	Y <sup>1</sup>
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	N
SIP Regulation 11, Rule 1	Hazardous Pollutants - Lead (9/2/81)	Y <sup>1</sup>
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants - Asbestos Demolition, Renovation and Manufacturing (10/7/98)	N
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants - Asbestos Containing Serpentine (7/17/91)	N
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (7/11/90)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (9/2/81)	Y <sup>1</sup>
California Health and Safety Code Section 44300 et seq.	Air Toxics “Hot Spots” Information and Assessment Act of 1987	N
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air Pollutants – General Provisions (4/9/04)	Y

**Table III  
Generally Applicable Requirements**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air Pollutants – National Emission Standard for Asbestos <del>(6/19/95/20/04)</del>	Y
EPA Regulation 40 CFR 82, Subpart F	Protection of Stratospheric Ozone – Recycling and Emissions Reduction ( <del>2/21/95/3/12/04</del> )	Y

Section IV:

The title of Table IV-A will be corrected to reflect that A-4, A-5, and A-6 have been removed from this facility. SIP Regulation 1-524.5 will be deleted because it does not exist. Federal regulation 40 CFR Part 62 will be deleted from Table IV-A, because it is not applicable to this landfill. This landfill is subject to the NSPS requirements for MSW Landfills and not the Emission Guideline requirements. Part 62 applies to landfills that are subject to federal Emission Guideline requirements and not to NSPS landfills. Obsolete future effective dates will be deleted and the permit condition citations will be updated to reflect the revisions proposed in Section VI. Other administrative corrections will be made to regulatory dates cited in Table IV-A.

The District’s G number for the gasoline dispensing facility will be added to the title of Table IV-B. Permit condition citations will be updated to reflect the revisions proposed in Section VI.

**Table IV – A  
Source-Specific Applicable Requirements  
S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~  
~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~  
A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 1</b>	<b>General Provisions and Definitions (5/2/01)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	N	
1-523.1	Reporting requirement for periods of inoperation > 24 hours	Y	
1-523.2	Limit on duration of inoperation	Y	
1-523.3	Reporting requirement for violations of any applicable limits	N	
1-523.4	Records of inoperation, tests, calibrations, adjustments, & maintenance	Y	
1-523.5	Maintenance and calibration	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (6/28/99)</b>		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y <sup>1</sup>	
1-523.3	Reports of Violations	Y <sup>1</sup>	

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<del>1-523.5</del>	<del>Maintenance and Calibration</del>	<del>Y<sup>+</sup></del>	
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/90)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particulate Weight Limitation (applies to flares only)	Y	
6-401	Appearance of Emissions	Y	
<b>BAAQMD Regulation 8, Rule 2</b>	<b>Organic Compounds – Miscellaneous Operations (6/15/94)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>BAAQMD Regulation 8, Rule 34</b>	<b>Organic Compounds – Solid Waste Disposal Sites (10/6/99)</b>		
8-34-113	Limited Exemption, Inspection and Maintenance	Y	
8-34-113.1	Emission Minimization Requirement	Y	
8-34-113.2	Shutdown Time Limitation	Y	
8-34-113.3	Recordkeeping Requirement	Y	
8-34-116	Limited Exemption, Well Raising	Y	
8-34-116.1	New Fill	Y	
8-34-116.2	Limits on Number of Wells Shutdown	Y	
8-34-116.3	Shutdown Duration Limit	Y	
8-34-116.4	Capping Well Extensions	Y	
8-34-116.5	Well Disconnection Records	Y	
8-34-117	Limited Exemption, Gas Collection System Components	Y	
8-34-117.1	Necessity of Existing Component Repairs/Adjustments	Y	
8-34-117.2	New Components are Described in Collection and Control System Design Plan	Y	
8-34-117.3	Meets Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
8-34-118.1	Construction Plan	Y	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4	Emission Minimization Requirement	Y	
8-34-118.5	Excavated Refuse Requirements	Y	
8-34-118.6	Covering Requirements for Exposed Refuse	Y	
8-34-118.7	Installation Time Limit	Y	
8-34-118.8	Capping Required for New Components	Y	
8-34-118.9	Construction Activity Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares (applies to flares only)	Y	
8-34-303	Landfill Surface Requirements	Y	
8-34-304	Gas Collection System Installation Requirements	Y	
8-34-304.1	Based on Waste Age For Inactive or Closed Areas	Y	
8-34-304.2	Based on Waste Age For Active Areas	Y	
8-34-304.3	Based on Amount of Decomposable Waste Accepted	Y	
8-34-304.4	Based on NMOC Emission Rate	Y	
8-34-305	Wellhead Requirements	Y	
8-34-305.1	Operate Under Vacuum	Y	
8-34-305.2	Temperature < 55 °C	Y	
8-34-305.3	Nitrogen < 20% or	Y	
8-34-305.4	Oxygen < 5%	Y	
8-34-405	Design Capacity Reports	Y	
8-34-408	Collection and Control System Design Plans	Y	
8-34-408.2	Sites With Existing Collection and Control Systems	Y	
8-34-411	Annual Report	Y	
8-34-412	Compliance Demonstration Tests	Y	
8-34-413	Performance Test Report	Y	
8-34-414	Repair Schedule for Wellhead Excesses	Y	
8-34-414.1	Records of Excesses	Y	
8-34-414.2	Corrective Action	Y	
8-34-414.3	Collection System Expansion	Y	
8-34-414.4	Operational Due Date for Expansion	Y	
8-34-415	Repair Schedule for Surface Leak Excesses	Y	
8-34-415.1	Records of Excesses	Y	

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-34-415.2	Corrective Action	Y	
8-34-415.3	Re-monitor Excess Location Within 10 Days	Y	
8-34-415.4	Re-monitor Excess Location Within 1 Month	Y	
8-34-415.5	If No More Excesses, No Further Re-Monitoring	Y	
8-34-415.6	Additional Corrective Action	Y	
8-34-415.7	Re-monitor Second Excess Within 10 days	Y	
8-34-415.8	Re-monitor Second Excess Within 1 Month	Y	
8-34-415.9	If No More Excesses, No Further Re-monitoring	Y	
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	Y	
8-34-415.11	Operational Due Date for Expansion	Y	
8-34-416	Cover Repairs	Y	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.2	Emission Control System Downtime (applies to flares only)	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors (applies to flares only)	Y	
8-34-501.4	Testing	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorded (applies to flares only)	Y	
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
<b>BAAQMD Regulation 8, Rule 40</b>	<b>Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (12/15/99)</b>		
8-40-110	Exemption, Storage Pile	Y	
8-40-112	Exemption, Sampling	Y	

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**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-40-113	Exemption, Non-Volatile Hydrocarbons	Y	
8-40-116	Exemption, Small Volume	Y	
8-40-116.1	Volume does not exceed 1 cubic yard	Y	
8-40-116.2	Volume does not exceed 8 cubic yards, organic content does not exceed 500 ppmw, may be used only once per quarter	Y	
8-40-117	Exemption, Accidental Spills	Y	
8-40-118	Exemption, Aeration Projects of Limited Impact	Y	
8-40-301	Uncontrolled Contaminated Soil Aeration	Y	
8-40-304	Active Storage Piles	Y	
8-40-305	Inactive Storage Piles	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)</b>		
9-1-301	Limitations on Ground Level Concentrations (applies to flares only)	Y	
9-1-302	General Emission Limitations (applies to flares only)	Y	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)</b>		
9-2-301	Limitations on Hydrogen Sulfide	N	
<b>BAAQMD Regulation 11, Rule 1</b>	<b>Hazardous Pollutants – Lead (3/17/82)</b>		
11-1-302	Ground Level Concentration Limit Without Background	Y	
<b>BAAQMD Regulation 11, Rule 3</b>	<b>Hazardous Pollutants – Beryllium (3/17/82)</b>		
11-3-301	Emission Limitation	N	
11-3-303	Ambient Concentration Limits	N	
<b>BAAQMD Regulation 11, Rule 14</b>	<b>Hazardous Pollutants – Asbestos-Containing Serpentine (7/17/91)</b>		
11-14-301	Prohibition of Use for Surfacing Operations	N	
11-14-501	Maintenance of Records	N	
<b>40 CFR Part 60, Subpart A</b>	<b>Standards of Performance for New Stationary Sources – General Provisions (5/4/98/7/8/04)</b>		

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Record Keeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Multiple monitors are required for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
<b>40 CFR Part 60, Subpart WWW</b>	<b>Standards of Performance for New Stationary Sources – Standards of Performance for Municipal Solid Waste Landfills (2/24/99/10/17/00)</b>		
60.752	Standards for Air Emissions from Municipal Solid Waste Landfills	Y	
60.752(b)	Requirements for MSW Landfills with Design Capacity equal to or greater than 2.5 million Mg <b>and</b> 2.5 million m <sup>3</sup> (Large Designated Facilities)	Y	
60.752(b)(2)	Comply with all requirements in sections (b)(2)(i through iv)	Y	
60.752 (b)(2)(i)	Submit a Collection and Control System Design Plan	Y	
60.752 (b)(2)(i)(A)	The collection and control system in the Design Plan shall comply with 60.752(b)(2)(ii)	Y	
60.752 (b)(2)(i)(B)	Design Plan shall include all proposed alternatives to 60.753 through 60.758	Y	
60.752 (b)(2)(i)(C)	Design Plan shall conform to 60.759 (active collection system) or demonstrate sufficiency of proposed alternatives	Y	
60.752 (b)(2)(ii)	Install a collection and control system	Y	

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**Source-Specific Applicable Requirements**  
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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.752 (b)(2)(iii)	Route collected gases to a control system.	Y	
60.752 (b)(2)(iii)(B)	Reduce NMOC emissions by 98% by weight or reduce NMOC outlet concentration to less than 20 ppmv as hexane at 3% O <sub>2</sub> , dry basis, as demonstrated by initial performance test within 180 days of start-up. (applies to flares only)	Y	
60.752 (b)(2)(iv)	Operate in accordance with 60.753, 60.755, and 60.756	Y	
60.752(c)	Title V Operating Permit Requirements	Y	
60.752(c)(1)	Subject date is June 10, 1996 for Landfills new or modified between May 30, 1991 and March 12, 1996	Y	
60.753	Operational Standards for Collection and Control Systems	Y	
60.753(a)	Operate a Collection System in each area or cell in which:	Y	
60.753(a)(1)	Active Cell – solid waste in place for 5 years or more	Y	
60.753(a)(2)	Closed/Final Grade – solid waste in place for 2 years or more	Y	
60.753(b)	Operate each wellhead under negative pressure unless:	Y	
60.753(b)(1)	Fire or increased well temperature or to prevent fire	Y	
60.753(b)(2)	Use of geomembrane or synthetic cover (subject to alternative pressure limits)	Y	
60.753(b)(3)	Decommissioned well after approval received for shut-down	Y	
60.753(c)	Operate each wellhead at < 55 °C, and either < 20% N <sub>2</sub> or < than 5% O <sub>2</sub> (or other approved alternative levels)	Y	
60.753(c)(1)	N <sub>2</sub> determined by Method 3C	Y	
60.753(c)(2)	O <sub>2</sub> determined by 3A and as described in (2)(i-v)	Y	
60.753(d)	Surface Leak Limit is less than 500 ppm methane above background at landfill surface. This section also describes some surface monitoring procedures.	Y	
60.753(e)	Vent all collected gases to a control system complying with 60.752(b)(2)(iii). If collection or control system inoperable, shut down gas mover and close all vents within 1 hour	Y	
60.753(f)	Operate the control system at all times when collected gas is routed to the control system	Y	
60.753(g)	If monitoring demonstrates that 60.753(b), (c), or (d) are not being met, corrective action must be taken	Y	
60.754	Test Methods and Procedures	Y	

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**Source-Specific Applicable Requirements**  
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**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.754(a)	NMOC Calculation Procedures for NMOC Emission Rate Reports and Comparison to 50 Mg/Year Standard	Y	
60.654(a)(1)	Calculate NMOC Emission Rate using either or both of the equations in 60.754(a)(1)(i-ii) with the listed default values	Y	
60.754(a)(1)(i)	Equation for known year-to-year waste acceptance rate	Y	
60.754(a)(1)(ii)	Equation for unknown year-to-year waste acceptance rate	Y	
60.754(a)(2)	Tier 1 - compare calculated NMOC emission rate to 50 Mg/year	Y	
60.754(a)(2)(ii)	If NMOC Emission Rate $\geq$ 50 Mg/year, comply with 60.752(b)(2) or determine a site-specific NMOC concentration and follow 60.754(a)(3).	Y	
60.754(c)	For PSD, NMOC emissions shall be calculated using AP-42	Y	
60.754(d)	Test Methods for Performance Test (Method 18 or 25C)	Y	
60.755	Compliance Provisions	Y	
60.755(a)	For Gas Collection Systems	Y	
60.755(a)(1)	Calculation Procedures for Maximum Expected Gas Generation Flow Rate	Y	
60.755(a)(1)(i)	Equation for unknown year-to-year waste acceptance rate	Y	
60.755(a)(1)(ii)	Equation for known year-to-year waste acceptance rate	Y	
60.755(a)(1)(iii)	For closed or inactive and full sites with gas collection systems, actual flow rates may be used	Y	
60.755(a)(2)	Vertical wells and horizontal collectors shall be of sufficient density to meet all performance specifications	Y	
60.755(a)(3)	Measure wellhead pressure monthly. If pressure is positive, take corrective action (final corrective action = expand system within 120 days of initial positive pressure reading)	Y	
60.755(a)(4)	Expansion not required during first 180 days after startup.	Y	
60.755(a)(5)	Monitor wellheads monthly for temperature and either nitrogen or oxygen. If readings exceed limits, take corrective action up to expanding system within 120 days of first excess.	Y	
60.755(b)	Wells shall be placed in cells as described in design plan and no later than 60 days after:	Y	
60.755(b)(1)	Five years after initial waste placement in cell, for active cells	Y	

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**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
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**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.755(b)(2)	Two years after initial waste placement in cell, for closed/final grade cells.	Y	
60.755(c)	Procedures for complying with surface methane standard	Y	
60.755(c)(1)	Quarterly monitoring of surface and perimeter	Y	
60.755(c)(2)	Procedure for determining background concentration	Y	
60.755(c)(3)	Method 21 except probe inlet placed 5-10 cm above ground	Y	
60.755(c)(4)	Excess is any reading of 500 ppmv or more. Take corrective action indicated below (i-v).	Y	
60.755 (c)(4)(i)	Mark and record location of excess	Y	
60.755 (c)(4)(ii)	Repair cover or adjust vacuum. Re-monitor within 10 calendar days.	Y	
60.755 (c)(4)(iii)	If still exceeding 500 ppmv, take additional corrective action. Re-monitor within 10 calendar days of 2 <sup>nd</sup> excess.	Y	
60.755 (c)(4)(iv)	Re-monitor within 1 month of initial excess.	Y	
60.755 (c)(4)(v)	For any location with 3 monitored excesses in a quarter, additional collectors (or other approved collection system repairs) shall be operational within 120 days of 1 <sup>st</sup> excess.	Y	
60.755(c)(5)	Monitor cover integrity monthly and repair as needed.	Y	
60.755(d)	Instrumentation and procedures for complying with 60.755(c).	Y	
60.755(d)(1)	Portable analyzer meeting Method 21	Y	
60.755(d)(2)	Calibrated with methane diluted to 500 ppmv in air	Y	
60.755(d)(3)	Use Method 21, Section 4.4 instrument evaluation procedures	Y	
60.755(d)(4)	Calibrate per Method 21, Section 4.2 immediately before monitoring.	Y	
60.755(e)	Provisions apply at all times except during startup, shutdown, or malfunction, provided the duration of these shall not exceed 5 days for collection systems or 1 hour for control systems.	Y	
60.756	Monitoring of Operations	Y	
60.756(a)	For active collection systems, install wellhead sampling port	Y	
60.756(a)(1)	Measure gauge pressure in wellhead on a monthly basis	Y	
60.756(a)(2)	Measure nitrogen or oxygen concentration in wellhead gas on a monthly basis.	Y	
60.756(a)(3)	Measure temperature of wellhead gas on a monthly basis.	Y	
60.756(b)	Enclosed combustors shall comply with (b)(1) and (b)(2)	Y	

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**Source-Specific Applicable Requirements**  
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**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.756(b)(1)	Temperature monitor and continuous recorder (not required for boilers and process heaters with capacity > 44 MW)	Y	
60.756(b)(2)	Device that records flow to or bypass of the control device (i or ii below)	Y	
60.756(b)(2)(i)	Install, calibrate, and maintain a device that records flow to the control device at least every 15 minutes.	Y	
60.756(e)	Procedures for requesting alternative monitoring parameters	Y	
60.756(f)	Monitor surface on a quarterly basis. Closed landfills with no monitored exceedencies in 3 consecutive quarters may reduce monitoring frequency to an annual basis	Y	
60.757	Reporting Requirements	Y	
60.757(a)	Submit an Initial Design Capacity Report	Y	
60.757(a)(3)	Amended Design Capacity Report required within 90 days of receiving a permitted increase in design capacity or within 90 days of an annual density calculation that results in a design capacity over the thresholds.	Y	
60.757(b)	Submit Initial and Annual NMOC Emission Rate Report	Y	
60.757(b)(3)	Sites with Collection and Control Systems operating in compliance with this subpart are exempt from (b)(1) and (b)(2) above.	Y	
60.757(c)	Submit a Collection and Control System Design Plan within 1 year of first NMOC emission rate report showing NMOC > 50 MG/year, except as follows	Y	
60.757(f)	Submit Annual Reports containing information required by (f)(1) through (f)(6)	Y	
60.757(f)(1)	Value and length of time for exceedance of parameters monitored per 60.756(a), (b) or (d)	Y	
60.757(f)(2)	Description and duration of all periods when gas is diverted from the control device by a by-pass line	Y	
60.757(f)(3)	Description and duration of all periods when control device was not operating for more than 1 hour	Y	
60.757(f)(4)	All periods when collection system was not operating for more than 5 days.	Y	
60.757(f)(5)	Location of each surface emission excess and all re-monitoring dates and concentrations.	Y	
60.757(f)(6)	Location and installation dates for any wells or collectors added as a result of corrective action for a monitored excess.	Y	

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**Source-Specific Applicable Requirements**  
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**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.757(g)	Initial Performance Test Report Requirements (g)(1-6)	Y	
60.757(g)(1)	Diagram of collection system showing positions of all existing collectors, proposed positions for future collectors, and areas to be excluded from control.	Y	
60.757(g)(2)	Basis for collector positioning to meet sufficient density req.	Y	
60.757(g)(3)	Documentation supporting percentage of asbestos or non-degradable material claims for areas without a collection system.	Y	
60.757(g)(4)	For areas excluded from collection due to non-productivity, calculations and gas generation rates for each non-productive area and the sum for all nonproductive areas.	Y	
60.757(g)(5)	Provisions for increasing gas mover equipment if current system inadequate to handle maximum projected gas flow rate.	Y	
60.757(g)(6)	Provisions for control of off-site migration	Y	
60.758	Recordkeeping Requirements	Y	
60.758(a)	Design Capacity and Waste Acceptance Records (retain 5 years)	Y	
60.758(b)	Collection and Control Equipment Records (retain for life of control equipment except 5 years for monitoring data)	Y	
60.758(b)(1)	Collection System Records	Y	
60.758(b)(1)(i)	Maximum expected gas generation flow rate.	Y	
60.758(b)(1)(ii)	Density of wells and collectors	Y	
60.758(b)(2)	Control System Records - enclosed combustors other than boilers or process heaters with heat input > 44 MW	Y	
60.758(b)(2)(i)	Combustion temperature measured every 15 minutes and averaged over the same time period as the performance test	Y	
60.758(b)(2)(ii)	Percent NMOC reduction achieved by the control device	Y	
60.758(c)	Records of parameters monitored pursuant to 60.756 and periods of operation when boundaries are exceeded (retain for 5 years).	Y	
60.758(c)(1)	Exceedances subject to record keeping are	Y	
60.758(c)(1)(i)	All 3-hour periods when average combustion temperature was more than 28 C below the average combustion temperature during the most recent complying performance test	Y	

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<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.758(c)(2)	Records of continuous flow to control device or monthly inspection records if seal and lock for bypass valves	Y	
60.758(d)	Plot map showing location of all existing and planned collectors with a unique label for each collector (retain for life of collection system)	Y	
60.758(d)(1)	Installation date and location of all newly installed collectors	Y	
60.758(d)(2)	Records of nature, deposition date, amount, and location of asbestos or non-degradable waste excluded from control	Y	
60.758(e)	Records of any exceedance of 60.753, location of exceedance and re-monitoring dates and data (for wellheads and surface). Retain for 5 years.	Y	
60.759	Specifications for Active Collection Systems	Y	
60.759(a)	Active wells and collectors shall be at sufficient density	Y	
60.759(a)(1)	Collection System in refuse shall be certified by PE to achieve comprehensive control of surface gas emissions	Y	
60.759(a)(2)	Collection Systems (active or passive) outside of refuse shall address migration control	Y	
60.759(a)(3)	All gas producing areas shall be controlled except as described below (i-iii).	Y	
60.759(a)(3)(i)	Any segregated area of asbestos or non-degradable material only may be excluded, if documented adequately per 60.758(d).	Y	
60.759(a)(3)(ii)	Any non-productive areas may be excluded from control, provided total NMOC emissions from all excluded areas is < 1% of total NMOC emissions from landfill. Document amount, location, and age of waste and all calculations for each excluded area.	Y	
60.759(a)(3)(iii)	For calculating NMOC emissions, values for k and concentration of NMOC that have been previously approved shall be used or defaults if no values were approved. All non-degradable wastes that are being subtracted from total wastes for NMOC calculations must be documented adequately.	Y	
60.759(b)	Gas Collection System Components	Y	
60.759(b)(1)	Must be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved material and of suitable dimensions to convey projected gas amounts and withstand settling, traffic, etc.	Y	

**Table IV – A**  
**Source-Specific Applicable Requirements**  
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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
60.759(b)(2)	Collectors shall not endanger liner, shall manage condensate and leachate, and shall prevent air intrusion and surface leaks.	Y	
60.759(b)(3)	Header connection assemblies shall include positive closing throttle valve, seals and couplings to prevent leaks, at least one sampling port, and shall be constructed of PVC, HDPE, fiberglass, stainless steel, or other approved materials.	Y	
60.759(c)	Gas Mover Equipment shall be sized to handle maximum expected gas generation rate over the intended period of use.	Y	
60.759(c)(1)	For existing systems, flow data shall be used to project maximum flow rate.	Y	
60.759(c)(2)	For new systems, shall be calculated per 60.755(a)(1)	Y	
<del>40 CFR Part 62</del>	<del>Approval and Promulgation of State Plans for Designated Facilities and Pollutants (9/20/2001)</del>		
<del>62.1115</del>	<del>Identification of Sources</del>	<del>Y</del>	
<b>40 CFR Part 63, Subpart A</b>	<b>National Emission Standards for Hazardous Air Pollutants: General Provisions (3/16/1994/22/04)</b>		
63.4	Prohibited activities and circumvention	Y	<del>1/16/04</del>
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	<del>1/16/04</del>
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	<del>1/16/04</del>
63.6(f)	Compliance with non-opacity emission standards	Y	<del>1/16/04</del>
63.10(b)(2)(i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	<del>1/16/04</del>
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	<del>1/16/04</del>
<b>40 CFR Part 63, Subpart AAAAA</b>	<b>National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills (1/16/2003)</b>		
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	<del>1/16/04</del>
63.1955	What requirements must I meet?	Y	<del>1/16/04</del>
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	<del>1/16/04</del>
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	<del>1/16/04</del>

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	<del>1/16/04</del>
63.1960	How is compliance determined?	Y	<del>1/16/04</del>
63.1965	What is a deviation?	Y	<del>1/16/04</del>
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	<del>1/16/04</del>
63.1980	What records and reports must I keep and submit?	Y	<del>1/16/04</del>
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	<del>1/16/04</del>
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	<del>1/16/04</del>
<b>BAAQMD Condition # 10164</b>			
Part 1	Limits on Operating Days (CEQA)	N	
Part 2	Waste Acceptance and Design Capacity Limits (Cumulative Increase)	Y	
Part 3	Waste Cover Requirements (Regulation 1-301)	N	
Part 4	Road Surfacing Requirements for Parking and Maintenance Areas (Regulation 6-301)	Y	
Part 5	Road Surfacing Requirements for On-Site Roadways (Cumulative Increase)	Y	
Part 6	Vehicle Speed Limit on Unpaved Roads (Cumulative Increase)	Y	
Part 7	Dust Suppressant and Water Application Requirements for Unpaved Roads (Cumulative Increase)	Y	
Part 8	Dust Control Requirements for Paved Roads (Cumulative Increase)	Y	
Part 9	Vehicle Traffic Volume Limits (Cumulative Increase)	Y	
Part 10	Vehicle Trip Length Limits (Cumulative Increase)	Y	
Part 11	Revegetation Requirement (CEQA)	N	
Part 12	Records (Cumulative Increase)	Y	
Part 13	Placement Limits for Soil that Contains VOCs (Regulation 8-40-301, Cumulative Increase and Regulation 8-2-301)	Y	

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
Part 14	Handling Procedures for Soil Containing Volatile Organic Compounds (Regulations 8-40-301, 8-40-304 and 8-40-305)	Y	
Part 15	Records for Uncontrolled Areas or Cells (Regulation 8-34-304)	Y	
Part 16	Collection System Requirements for Upper Canyon Area (Regulations 2-1-301, 8-34-301.1, 8-34-305, and 40 CFR 60.752(b)(2)(ii))	Y	
Part 17	Collection System Requirements for Lower Canyon Area (Regulations 2-1-301, 8-34-301.1, 8-34-305, and 40 CFR 60.752(b)(2)(ii), 60.7555(a), and 60.759)	Y	
Part 18	Collection System Continuous Operation Requirement (Regulation 8-34-301.1)	Y	
Part 19	Requirement to Control Collected Landfill Gas (Regulations 8-34-301 and 8-34-303)	Y	
Part 20	Landfill Gas Flow Rate Limit (Offsets and Cumulative Increase)		
Part 21	Total Reduced Sulfur Compound Limit and Monitoring Requirement (Cumulative Increase and Regulation 2-6-503)	Y	
Part 22	Permit application requirement and Limits on TAC Concentrations in Landfill Gas (Toxic Risk Management Policy)	N	
Part 23	Combustion Temperature Limits (Regulation 8-34-301, 40 CFR 60.752(b)(2)(iii)(B) and 60.758(c)(1)(i), and Toxic Risk Management Policy)	Y	
Part 24	Combustion Temperature Monitoring and Recording Requirements (Regulations 8-34-501.3 and 8-34-507 and 40 CFR 60.756(b)(1))	Y	
Part 25	Combustion Air Controller Requirement (Regulation 8-34-301.3 and RACT for CO)	Y	
Part 26	Gas Flow Monitoring and Recording Requirements (Regulations 8-34-501.10 and 8-34-508, and 40 CFR 60.756(b)(2)(i))	Y	
Part 27	Alarms and Automatic Systems Requirements (Regulation 8-34-301)	Y	
Part 28	Nitrogen Oxide Emission Limits (RACT and Offsets)	Y	
Part 29	Carbon Monoxide Emission Limit (RACT, Cumulative Increase, and avoidance of Regulation 2-2-305.2)	Y	
Part 30	Annual Source Test Requirement (Regulations 2-6-503, 8-34-301.3, 8-34-412, and 40 CFR 60.752(b)(2)(iii)(B))	Y	
Part 31	Annual Gas Characterization Test (Toxic Risk Management Policy, Cumulative Increase, Regulations 8-34-412 and 9-1-302)	Y	
Part 32	Records Retention (Regulations 8-34-501 and 2-6-501)	Y	

**Table IV – A**  
**Source-Specific Applicable Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 33	Reporting periods and report submittal due dates for the Regulation 8, Rule 34 report (Regulation 8-34-411 and 40 CFR 63.1980(a))	Y	
<del>Part 34</del>	<del>Shut Down Requirements for A-4, A-5, and A-6 (Offsets and Cumulative Increase)</del>	<del>Y</del>	

**Table IV – B**  
**Source-Specific Applicable Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-301	Storage Tank Control Requirements	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-501	Records	Y	
8-5-501.1	Types and amounts of materials stored	Y	
<b>BAAQMD Regulation 8, Rule 7</b>	<b>Organic Compounds, Gasoline Dispensing Facilities (11/6/02)</b>		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-114	Stationary Tank Testing Exemption	Y	
8-7-116	Periodic Testing Requirements Exemption	Y	
8-7-301	Phase I Requirements	Y	
8-7-301.1	Requirements for Transfers into Stationary Tanks, Cargo Tanks, and Mobile Refuelers	Y	
8-7-301.2	CARB Certification Requirements	Y	
8-7-301.3	Submerged Fill Pipe Requirement	Y	
8-7-301.5	Maintenance and Operating Requirement	Y	
8-7-301.6	Leak-Free and Vapor Tight Requirement for Components	Y	
8-7-301.7	Fitting Requirements for Vapor Return Line	Y	
8-7-301.12	Spill Box Drain Valve Limitation	Y	
8-7-301.13	Annual Vapor Tightness Test Requirement	Y	

**Table IV – B**  
**Source-Specific Applicable Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-7-302	Phase II Requirements	Y	
8-7-302.1	Requirements for Transfers into Motor Vehicle Fuel Tanks	Y	
8-7-302.2	Maintenance Requirement	Y	
8-7-302.3	Proper Operation and Free of Defects Requirements	Y	
8-7-302.4	Repair Time Limit for Defective Components	Y	
8-7-302.5	Leak-Free and Vapor Tight Requirement for Components	Y	
8-7-302.6	Requirements for Bellows Nozzles	Y	
8-7-302.7	Requirements for Vapor Recovery Nozzles on Balance Systems	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose Requirement	Y	
8-7-302.10	Construction Materials Specifications	Y	
8-7-302.12	Liquid Retain Limitation	Y	
8-7-302.13	Nozzle Spitting Limitation	Y	
8-7-302.14	Annual Back Pressure Test Requirements for Balance Systems	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	
8-7-309	Contingent Vapor Recovery Requirement	Y	
8-7-313	Requirements for New or Modified Phase II Installations	Y	
8-7-316	Pressure Vacuum Valve Requirements, Aboveground Storage Tanks and Vaulted Below Grade Storage Tanks	Y	
8-7-401	Equipment Installation and Modification	Y	
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-501	Burden of Proof	Y	
8-7-407	Periodic Testing Requirements	Y	
8-7-408	Periodic Testing Notification and Submission Requirements	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503	Record Keeping Requirements	Y	
8-7-503.1	Gasoline Throughput Records	Y	
8-7-503.2	Maintenance Records	Y	
8-7-503.3	Records Retention Time	Y	
<b>BAAQMD Condition # 7523</b>	<b>Gasoline Throughput Limit (Toxic Risk Management Policy)</b>	<b>N</b>	

**Table IV – B**  
**Source-Specific Applicable Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
<u>BAAQMD Condition # 16516</u>	<u>Static Pressure Testing Requirement (Regulation 8-7-407)</u>	<u>Y</u>	
State of California, Air Resources Board, Executive Order G-70-116-F	Certification of ConVault, Inc. Aboveground Filling/Dispensing Vapor Recovery System (11/30/95)		
Paragraph 9	Tank Design Configuration Limitations	N	
Paragraph 10	Emergency Vent and Manway Requirement	N	
Paragraph 11	Requirement to Use ARB Certified Phase I and Phase II Systems	N	
Paragraph 12	Requirements for Phase I Components and Piping Configurations	N	
Paragraph 13	Requirements for the Routing of the Coaxial Hose and for Liquid Traps	N	
Paragraph 14	P/V Valve Requirements	N	
Paragraph 15	Tank Insulation Requirements	N	
Paragraph 16	Tank Exterior Surface Requirements	N	
Paragraph 17	Requirement to Comply with Local Air District Rules	N	
Paragraph 18	Requirements for Deliveries from a Cargo Truck	N	
Paragraph 19	Leak Checking Requirements	N	
Paragraph 20	Requirement to Comply with Local Fire Official's Requirements	N	
Paragraph 21	Requirement to Comply with Other Specified Rules and Regulations	N	
Paragraph 22	Prohibition on Alteration of Equipment, Parts, Design, or Operation	N	
Paragraph 23	This Order Supersedes EO G-70-116-E (4/1/95)	N	

Section V:

No changes are proposed to this section.

Section VI:

This MFR Permit revision will modify Condition # 10164, Parts 17, 19, 20, 23-30, and 34. The District extended the expiration date of Authority to Construct # 3221 by one year. This change is reflected in Part 17b. Parts 19, 20, 23-30, and 34 will be revised by deleting references to the flares that have been removed from this facility and by deleting other text that is unnecessary now that A-4, A-5, and A-6 have been removed from the site and the Permits to Operate for A-7, A-8, and A-9 have been issued.

This MFR Permit revision will add Condition # 16516 for the S-5 Gasoline Dispensing Station. S-5 will remain subject to Condition # 7523 in addition to this new condition.

All changes to the permit conditions are identified below in strikeout and underline format.

**Condition # 10164**

For S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE; A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE; A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; AND A-9 LANDFILL GAS FLARE:~~

... (No changes to Parts 1-16)

17. The Permit Holder of S-1 shall have a properly operated and properly maintained landfill gas collection system in the Lower Los Trancos Canyon Fill Area. The Permit Holder shall apply for and receive an Authority to Construct from the District before implementing any changes to the Collection and Control System Design Plan. Increasing or decreasing the number of wells or collectors or significantly changing the locations, depths, or lengths of wells or collectors are all considered to be modifications that are subject to the Authority to Construct requirement.
- a. This gas collection system shall consist of 47 horizontal collectors (monitored at 4 headers) and 15 vertical wells.
- b. The Permit Holder has been issued an Authority to Construct for the additional landfill gas collection system components listed below. The minimum number of wells shall be installed by no later than October 26, 20045. Specific well locations, depths, and lengths of associated piping are as described in detail in Permit Application # 3221. Wells installed pursuant to Part 17b shall be added to Part 17a in accordance with the procedures identified in Regulations 2-6-414 or 2-6-415.

Minimum Collectors	Maximum Collectors
3 horizontal	13 horizontal

(Basis: Regulations 2-1-301, 8-34-301.1, 8-34-305, and NSPS: 40 CFR 60.752(b)(2)(ii), 60.755(a) and 60.759)

... (No changes to Part 18)

19. All collected landfill gas shall be abated by Landfill Gas Flares (~~A-4, A-5, A-6,~~ A-7, A-8, or A-9). A minimum of one landfill gas flare (~~either A-6 or A-9~~) shall be used to control landfill gas collected from the upper canyon area. A minimum of one landfill gas flare (~~either A-5, A-7, or A-8~~) shall be used to control landfill gas collected from the lower canyon area, provided that the total landfill gas collection rate ~~for A-4, A-5, A-7, and A-8~~ (averaged over the previous three months and excluding shut-down time) is not more than 2012 scfm, expressed as landfill gas with 50% methane (dry basis) at 70 degrees F and 1 atmosphere. If this total average landfill gas collection rate is more than 2012 scfm, a

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minimum of two flares (~~any combination of A-4, A-5, A-7, or A-8~~) shall be used to control landfill gas collected from the lower canyon area. Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for inadvertent component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303.

(Basis: Regulations 8-34-301 and 8-34-303)

20. The combined landfill gas flow rate to all the Flares (~~A-4, A-5, A-6, A-7, A-8, and A-9~~) shall not exceed 3807.6 million standard cubic feet during any consecutive 12-month period. For comparison to this limit, the landfill gas flow rate shall be corrected to 50% methane (dry basis), 70 degrees F, and 1 atmosphere. In order to demonstrate compliance with this part, the Permit Holder shall:

- a. determine and record, on a monthly basis, the methane content (dry basis) of the landfill gas in each landfill gas collection system header (upper canyon header and lower canyon header),
- b. calculate and record, on a monthly basis, the total landfill gas flow rate (expressed as 50% methane, dry basis, at 70 degrees F and 1 atmosphere) for each landfill gas collection system ~~(flow to A-6 and A-9 for the upper canyon collection system and flow to A-4, A-5, A-7, and A-8 for the lower canyon collection system),~~
- c. calculate and record, on a monthly basis, the total landfill gas flow rate to all flares (expressed as 50% methane, dry basis, at 70 degrees F and 1 atmosphere), and
- d. maintain records of all calculation procedures and measured values that were used to determine the total corrected landfill gas flow rate to the flares.

All records shall be maintained on site in an APCO approved logbook or shall be made readily available to District staff upon request for a period of at least 5 years from the date of entry. These record keeping requirements do not replace the record keeping requirements contained in any applicable rules or regulations.  
(Basis: Offsets and Cumulative Increase)

... (No changes to Parts 21-22)

23. Each Flare (~~A-4, A-5, and A-6: until the flare is permanently shut down; and A-7, A-8, and A-9: upon initial operation of the flare~~) shall operate at the minimum combustion zone temperature indicated in subparts a-fc below. If a source test demonstrates

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compliance with all applicable requirements at a different temperature, the APCO ~~will~~may revise the minimum combustion zone temperature limit in accordance with the procedures identified in Regulations 2-6-414 or 2-6-415 and the following criteria. The minimum combustion zone temperature for a flare shall be equal to the average combustion zone temperature determined during the most recent complying source test minus 50 degrees F, provided that the minimum combustion zone temperature is not less than 1400 degrees F.

~~a. The A-4 Landfill Gas Flare shall operate at a minimum combustion zone temperature of at least 1600 degrees F, averaged over any 3-hour period.~~

~~b. The A-5 Landfill Gas Flare shall operate at a minimum combustion zone temperature of at least 1455 degrees F, averaged over any 3-hour period.~~

~~c. The A-6 Landfill Gas Flare shall operate at a minimum combustion zone temperature of at least 1407 degrees F, averaged over any 3-hour period.~~

da. The A-7 Landfill Gas Flare shall operate at a minimum combustion zone temperature of at least 1400 degrees F, averaged over any 3-hour period.

eb. The A-8 Landfill Gas Flare shall operate at a minimum combustion zone temperature of at least 1400 degrees F, averaged over any 3-hour period.

fc. The A-9 Landfill Gas Flare shall operate at a minimum combustion zone temperature of at least 1400 degrees F, averaged over any 3-hour period.

(Basis: Regulation 8-34-301.3, NSPS: 40 CFR 60.752(b)(2)(iii)(B), 60.758(c)(1)(i), and Toxic Risk Management Policy)

24. Each Flare (~~A-4, A-5, and A-6: until the flare is permanently shut down; and A-7, A-8, and A-9: upon initial operation of the flare~~) shall be equipped with a temperature monitor with readout display and a continuous temperature recorder. One or more thermocouples shall be placed in the primary combustion zone of the flare and shall accurately indicate flare combustion zone temperature at all times.

(Basis: Regulations 8-34-501.3 and 8-34-507, and NSPS: 40 CFR 60.756(b)(1))

25. Each Flare (~~A-4, A-5, and A-6: until the flare is permanently shut down; and A-7, A-8, and A-9: upon initial operation of the flare~~) shall be equipped with automatic combustion air controls.

(Basis: Regulation 8-34-301.3 and RACT for CO)

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26. Each Flare (~~A-4, A-5, and A-6: until the flare is permanently shut down; and A-7, A-8, and A-9: upon initial operation of the flare~~) shall be equipped with a properly maintained and properly calibrated flow meter to measure gas flow into each flare. Gas flow shall be recorded at least every 15 minutes. (Basis: Regulations 8-34-501.10 and 8-34-508, and NSPS: 40 CFR 60.756(b)(2)(i))
27. Each Flare (~~A-4, A-5, and A-6: until the flare is permanently shut down; and A-7, A-8, and A-9: upon initial operation of the flare~~) shall be equipped with an automatic gas shutoff valve, local and remote alarms, and an automatic restart system. (Basis: Regulation 8-34-301)
28. ~~The concentration of nitrogen oxides (NO<sub>x</sub>) in the outlet from Flares A-4, A-5, or A-6 shall not exceed 0.042 pounds per million BTU. (Basis: RACT and Offsets)~~  
**b.** Nitrogen Oxide (NO<sub>x</sub>) emissions from Flares A-7, A-8, or A-9 shall not exceed 0.052 pounds of NO<sub>x</sub> (calculated as NO<sub>2</sub>) per million BTU. The Permit Holder may demonstrate compliance with this emission rate limit by having a nitrogen oxide concentration in the flare exhaust of no more than 39 ppmv of NO<sub>x</sub>, corrected to 3% oxygen, dry basis. An exhaust concentration measurement of more than 39 ppmv of NO<sub>x</sub> shall not be deemed a violation of this part, if the Permit Holder can demonstrate that NO<sub>x</sub> emissions did not exceed 0.052 lbs/MM BTU during the test period. (Basis: RACT and Offsets)
29. ~~a. The concentration of carbon monoxide (CO) in the outlet from Flares A-4, A-5, or A-6 shall not exceed 0.2 pounds per million BTU. (Basis: RACT and Cumulative Increase)~~  
**b.** Carbon Monoxide (CO) emissions from Flares A-7, A-8, or A-9 shall not exceed 0.15 pounds of CO per million BTU. The Permit Holder may demonstrate compliance with this emission rate limit by having a carbon monoxide concentration in the flare exhaust of no more than 184 ppmv of CO, corrected to 3% oxygen, dry basis. An exhaust concentration measurement of more than 184 ppmv of CO shall not be deemed a violation of this part, if the Permit Holder can demonstrate that CO emissions did not exceed 0.15 lbs/MM BTU during the test period. (Basis: RACT, Cumulative Increase, and avoidance of Regulation 2-2-305.2)

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30. In order to demonstrate compliance with Parts 28 and 29 above, Regulation 8, Rule 34, Section 301.3 and 40 CFR 60.752(b)(2)(iii)(B), the Permit Holder shall ensure that a District approved source test is conducted annually on each Landfill Gas Flare (~~A-4, A-5, and A-6: until the flare is permanently shut down; and A-7, A-8, and A-9: upon initial operation of the flare~~). The source tests shall be conducted no sooner than 9 months and no later than 12 months after the previous source test. Each annual source test shall determine the following:
- landfill gas flow rate to the flare (dry basis);
  - concentrations (dry basis) of carbon dioxide (CO<sub>2</sub>), nitrogen (N<sub>2</sub>), oxygen (O<sub>2</sub>), methane (CH<sub>4</sub>), and total non-methane hydrocarbons (NMOC) in the landfill gas;
  - landfill gas flow rate (scfm) and heat input rate (MM BTU/hour) to the flare;
  - stack gas flow rate from the flare (dry basis);
  - concentrations (dry basis) of NO<sub>x</sub>, CO, CH<sub>4</sub>, NMOC, and O<sub>2</sub> in the flare stack gas;
  - emission rate per heat input (pounds/MM BTU) for NO<sub>x</sub> and CO
  - NMOC destruction efficiency achieved by the flare; and
  - average combustion zone temperature in the flare during the test period.

The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and the Source Test Section within 45 days of the test date.

(Basis: Regulations 2-6-503, 8-34-301.3, 8-34-412, and 40 CFR 60.752(b)(2)(iii)(B))

... (No changes to Parts 31-33)

- ~~34. The A-4 Landfill Gas Flare shall be permanently shut down and the Permit to Operate surrendered to the District within 90 days of the initial start-up date for the A-7 Landfill Gas Flare. The A-5 Landfill Gas Flare shall be permanently shut down and the Permit to Operate surrendered to the District within 90 days of the initial start-up date for the A-8 Landfill Gas Flare. The A-6 Landfill Gas Flare shall be permanently shut down and the Permit to Operate surrendered to the District within 90 days of the initial start-up date for the A-9 Landfill Gas Flare. Upon receiving notification that a flare has been permanently shut down, the APCO may delete all obsolete text concerning that flare from the parts above in accordance with the administrative permit amendment procedures~~

~~of Regulation 2-6-413-  
(Basis: Offsets and Cumulative Increase)~~

**Condition # 16516**

**FOR S-5 NON-RETAIL GASOLINE DISPENSING STATION - G # 8524**

The Static Pressure Performance Test (leak Test) ST-38 shall be successfully conducted at least once in each twelve consecutive month period after the date of successful completion of the start-up Static Pressure Performance Test. Test results shall be submitted to BAAQMD within 20 days of the test date. (Basis: Regulation 8-7-407)

Section VII:

Table VII-A will be revised by deleting limits that were applicable to the flares that have been removed. These revisions will not affect the monitoring requirements for the remaining abatement devices (A-7, A-8, or A-9).

Table VII-B will be revised by adding Condition # 16516 to the regulatory citations for the annual vapor tightness testing requirements. This condition restates the annual testing requirements of Regulation 8-7-407 and CARB Executive Order G-70-116-F, Paragraph 19. Therefore this action does not add any new monitoring requirements.

**Table VII – A  
Applicable Limits and Compliance Monitoring Requirements  
S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~  
~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~  
A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
...							
Temperature of Combustion Zone (CT)	BAAQMD Condition # 10164, Part 23	Y		<del>A-4: CT ≥ 1600 °F</del> <del>A-5: CT ≥ 1455 °F</del> <del>A-6: CT ≥ 1407 °F</del> A-7: CT ≥ 1400 °F A-8: CT ≥ 1400 °F A-9: CT ≥ 1400 °F (all temperature limits are averaged over any 3-hour period)	BAAQMD 8-34-501.3 and 507 and BAAQMD Condition # 10164, Part 24	C	Temperature Sensor and Recorder (continuous)
...							

**Table VII – A**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 LOS TRANCOS CANYON LANDFILL; ~~A-4 MODIFIED LANDFILL GAS FLARE;~~**  
**~~A-5 REPLACEMENT LANDFILL GAS FLARE; A-6 NEW LANDFILL GAS FLARE;~~**  
**A-7 LANDFILL GAS FLARE; A-8 LANDFILL GAS FLARE; A-9 LANDFILL GAS FLARE**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<del>NO<sub>x</sub></del>	<del>BAAQMD Condition # 10164, Part 28a</del>	<del>Y</del>		<del>For Flares (A-4, A-5, and A-6): 0.042 pounds / MM BTU (from each flare)</del>	<del>BAAQMD Condition # 10164, Part 30</del>	<del>P/A</del>	<del>Annual Source Tests</del>
NO <sub>x</sub>	BAAQMD Condition # 10164, Part 28b	Y		For Flares (A-7, A-8, and A-9): ≤ 39 ppmv at 3% O <sub>2</sub> , dry, in flare exhaust, unless each flare emits ≤ 0.052 pounds (as NO <sub>2</sub> ) / MM BTU	BAAQMD Condition # 10164, Part 30	P/A	Annual Source Tests
<del>CO</del>	<del>BAAQMD Condition # 10164, Part 29a</del>	<del>Y</del>		<del>For Flares (A-4, A-5, and A-6): 0.2 pounds / MM BTU (from each flare)</del>	<del>BAAQMD Condition # 10164, Part 30</del>	<del>P/A</del>	<del>Annual Source Tests</del>
CO	BAAQMD Condition # 10164, Part 29b	Y		For Flares (A-7, A-8, and A-9): ≤ 184 ppmv at 3% O <sub>2</sub> , dry, in flare exhaust, unless each flare emits ≤ 0.15 pounds / MM BTU	BAAQMD Condition # 10164, Part 30	P/A	Annual Source Tests

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gasoline Through-put	BAAQMD Condition # 7523	N		400,000 gallons per 12-month period	BAAQMD 8-5-501.1 and 8-7-503.1	P/A	Records

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Through-put (exempt from Phase I)	BAAQMD 8-7-114	Y		1000 gallons per facility for tank integrity leak checking	BAAQMD 8-7-501 and 8-7-503.2	P/E	Records
Organic Compounds	BAAQMD 8-7-301.2	Y		All Phase I Systems Shall Meet the Emission Limitations of the Applicable CARB Certification	None	N	NA
Organic Compounds	BAAQMD 8-7-301.6	Y		All Phase I Equipment (except components with allowable leak rates) shall be leak free ( $\leq 3$ drops/minute) and vapor tight	CARB EO G-70-116-F, paragraph 19. <del>and</del> BAAQMD 8-7-301.13 and 8-7-407. <del>and</del> <u>BAAQMD Condition # 16516</u>	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System
Organic Compounds	BAAQMD 8-7-302.5	Y		All Phase II Equipment (except components with allowable leak rates or at the nozzle/fill-pipe interface) Shall Be: leak free ( $\leq 3$ drops/minute) and vapor tight	CARB EO G-70-116-F, paragraph 19. <del>and</del> BAAQMD 8-7-301.13 and 8-7-407. <del>and</del> <u>BAAQMD Condition # 16516</u>	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Organic Compounds	CARB EO G-70-116-F, paragraph 10	N		Any Emergency Vent or Manway Shall Be: leak free	CARB EO G-70-116-F, paragraph 19, <del>and</del> BAAQMD 8-7-301.13 and 8-7-407, <del>and</del> <u>BAAQMD Condition # 16516</u>	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System
Defective Component Repair/Replacement Time Limit	BAAQMD 8-7-302.4	Y		7 days	None	N	NA
Liquid Removal Rate	BAAQMD 8-7-302.8	Y		≥ 5 ml per gallon dispensed, when dispensing rate > 5 gallons/minute	None	N	NA
Liquid Retain from Nozzles	BAAQMD 8-7-302.12	Y		100 ml per 1000 gallons dispensed	None	N	NA
Nozzle Spitting	BAAQMD 8-7-302.13	Y		1.0 ml per nozzle per test	None	N	NA
Pressure-Vacuum Valve Settings	BAAQMD 8-7-316 and CARB EO G-70-116-F, paragraph 14	Y		Pressure Setting: 2.5 inches of water, gauge	None	N	NA

**Table VII – B**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 NON-RETAIL GASOLINE DISPENSING FACILITY – G # 8524**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Pressure-Vacuum Valve Settings	BAAQMD 8-5-303.1	Y		Pressure Setting: 10% of maximum working pressure or at least 0.5 psig	None	N	NA
Disconnection Liquid Leaks	CARB EO G-70-116-F, paragraph 12	N		10 ml per disconnect, averaged over 3 disconnect operations	CARB EO G-70-116-F, paragraph 19, <del>and</del> BAAQMD 8-7-301.13 and 8-7-407, <del>and</del> <u>BAAQMD Condition # 16516</u>	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System

Section VIII:

The acceptable test methods for the static pressure testing requirement of Condition # 16516 will be added to Table VIII. These test methods are the same as the methods listed for the Vapor Tightness Testing Requirements.

**Table VIII**  
**Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
...		
<u>BAAQMD Condition # 16516</u>	<u>Static Pressure Testing Requirement</u>	<u>Manual of Procedures, Volume IV, ST-38, Gasoline Dispensing Facility Static Pressure Integrity Test Aboveground Vaulted Tanks or ARB Test Method TP 201.3B Determination of Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks</u>
...		

Section IX:

No changes are proposed to this section.

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Section X:

These above revisions are summarized in the revision history section as shown below.

## **X. Revision History**

**Title V Permit Issuance (Application # 17349):** **October 1, 2001** |

**Minor Revision (Application # 3221):** **March 7, 2002** |

- Correction to the description of the current gas collection system for S-1 in Table II-A and in Permit Condition #10164, Part 15.a
- Addition of Part 15.b, which describes approved expansions of the gas collection system in the lower canyon fill area, to Permit Condition #10164 and to Table IV-A
- Non-substantive text revisions to Condition #10164, Parts 14 and 15
- Correction of the basis for Condition #10164, Part 15
- SIP rules available on EPA's website

**Minor Revision (Application # 4801):** **August 12, 2003** |

- Correct and update regulatory dates in Sections I. and III.
- Add S-12 Stockpiles of Green Waste to Table II-A, and add Tables IV-C and VII-C for S-12.
- Revise Condition # 16315 for S-12 to add bases, throughput limits, visual monitoring requirements, and record keeping requirements.
- Clarify capacities and operating requirements for flares in Table II-B.
- Updates Tables IV-A, IV-B, IV-D, VII-A, VII-B, VII-D, and VIII and delete Condition # 10164, Part 33 to reflect EPA's adoption of BAAQMD Regulation 8, Rules 5, 7, 34, and 40 into the SIP and BAAQMD's subsequent adoption of amendments to Regulation 8, Rules 5 and 7.
- Incorporate NESHAP requirements for MSW Landfills into Tables IV-A, IV-D, VII-A, VII-D and Condition # 10164, Part 33.
- Add new terms to Section XI.

**Significant Revision (Application # 7841):** **January 5, 2004** |

- Add Regulation 8, Rule 47 to Table III.
- Merge Tables IV-A and IV-D into Table IV-A.
- Merge Tables VII-A and VII-D into Table VII-A.
- Identify NESHAP requirements for MSW Landfills in Tables IV-A and VII-A and Condition # 10164.
- Modify Condition # 10164 by:
  - adding or revising Parts 17, 19-31, and 34 to incorporate requirements for proposed Flares (A-7, A-8, and A-9),
  - deleting obsolete requirements,
  - rearranging Parts 13-22 to improve clarity, and

- correcting the basis for Parts 3, 4, 13-19, 23-27, 30, and 32.
- Add proposed Flares (A-7, A-8, and A-9) and associated requirements to Tables II-B, IV-A, VII-A, and VIII.
- Correct table number and part number references in Tables II-B, IV-A, VII-A, and VIII.
- Correct test methods referenced in Table VIII by adding optional methods and deleting obsolete methods.
- Correct Section X by deleting the proposal date for the initial MFR Permit.
- Add new terms to Section XI.

**Minor Revision (Applications # 7841 and # 8229):**

**[Insert Approval Date]**

- Revise description of S-5 in Tables II-A, IV-B, and VII-B pursuant to Application # 8229.
- Incorporate static pressure testing requirement for S-5 by adding Condition # 16516 and revising Tables IV-B, VII-B, and VIII pursuant to Application # 8229.
- Delete SIP regulations and update amendment dates in Tables III and IV-A pursuant to EPA actions.
- Correct errors and delete future effective dates that have passed from Table IV-A
- Delete Flares A-4, A-5, and A-6 from Table II-B and from titles of Tables IV-A and Table VII-A pursuant to Application # 7841.
- Revise the list of applicable devices for Condition # 10164, and revise Parts 19, 20, and 23-30 by deleting references to Flares A-4, A-5, and A-6.
- Correct an error in Condition # 10164, Part 17b.
- Delete obsolete NOx and CO limits for Flares A-4, A-5, and A-6 from Condition # 10164, Parts 28 and 29 and from Table VII-A.
- Delete Condition # 10164, Part 34 and revise Table IV-A accordingly, because these requirements have been satisfied.
- Add application number references to Section X.

Sections XI-XII:

No changes are proposed to these sections.

**E. RECOMMENDATION**

Approve a minor revision of the MFR Permit for Site # 2266, Browning Ferris Industries (BFI).

By: signed by Carol S. Allen  
Carol S. Allen  
Senior Air Quality Engineer

February 2, 2005  
Date

Permit Evaluation and Statement of Basis:  
Applications # 7841 and # 8229

Site A2266, Browning-Ferris Industries of CA, Inc.  
12310 San Mateo Road, Half Moon Bay, CA 94019

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