Bay Area Air Quality Management District

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

Final

MAJOR FACILITY REVIEW PERMIT

Issued To: Kirby Canyon Recycling and Disposal Facility Facility #A1812

> Facility Address: 910 Coyote Creek Golf Drive Morgan Hill, CA 95037

Mailing Address: P.O. Box 1870 Morgan Hill, CA 95038

Responsible Official Bill Spence, District Manager (408) 779-2206 Facility Contact Rebecca Azevedo, Environmental Manager (408) 779-2206

Type of Facility:LandfillPrimary SIC:4953Product:Non-hazardous Solid Waste

BAAQMD Permit Division Contact: Tamiko Endow, Air Quality Engineer

ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT

<u>Signed by Jeff McKay for Jack P. Broadbent</u> Jack P. Broadbent, Executive Officer/Air Pollution Control Officer March 2, 2012

Date

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I. STANDARD CONDITIONS

A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations: **BAAQMD** Regulation 1 - General Provisions and Definitions (as amended by the District Board on 5/4/11); SIP Regulation 1 - General Provisions and Definitions (as approved by EPA through 6/28/99); BAAQMD Regulation 2, Rule 1 - Permits, General Requirements (as amended by the District Board on 3/4/09); SIP Regulation 2, Rule 1 - Permits, General Requirements (as approved by EPA through 1/26/99); BAAQMD Regulation 2, Rule 2 - Permits, New Source Review (as amended by the District Board on 6/15/05); SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration (as approved by EPA through 1/26/99); BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking (as amended by the District Board 12/21/04); SIP Regulation 2, Rule 4 - Permits, Emissions Banking (as approved by EPA through 1/26/99); BAAQMD Regulation 2, Rule 5 - New Source Review of Toxic Air Contaminants (as amended by the District Board on 1/6/10) BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review (as amended by the District Board on 4/16/03); and SIP Regulation 2, Rule 6 – Permits, Major Facility Review (as approved by EPA through 6/23/95)

B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

- 1. This Major Facility Review Permit was issued on March 2, 2012 and expires on March 1, 2017. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than September 1, 2017, and no earlier than March 1, 2016. If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after March 1, 2017. If the permit renewal has not been submitted in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application. (Regulation 2-6-307, 404.2, 407, & 409.6; MOP Volume II, Part 3, §4.2)
- 2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
- 3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to

I. Standard Conditions

halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)

- 4. This permit may be modified, revoked, reopened and reissued, or terminated for cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)
- 5. The filing of a request by the facility for a permit modification, revocation and reissuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
- 7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
- 8. Any records required to be maintained pursuant to this permit that the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
- 9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B Public Information, Confidentiality of Business Information. (40 CFR Part 2)
- 10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
- 11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility. (Regulation 2-6-409.20, MOP Volume II, Part 3, §4.11)
- 12. The permit holder is responsible for compliance, and certification of compliance, with all conditions of the permit, regardless whether it acts through employees, agents, contractors, or subcontractors. (Regulation 2-6-307)

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C. Requirement to Pay Fees

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

D. Inspection and Entry

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment that is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

E. Records

- 1. The permit holder must provide any information, records, and reports requested or specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
- 2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, MOP Volume II, Part 3, §4.7)

F. Monitoring Reports

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. Reports shall be for the following periods: January 1st through June 30th and July 1st through December 31st, and are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement Bay Area Air Quality Management District 939 Ellis Street San Francisco, CA 94109 Attn: Title V Reports

(Regulation 2-6-502, MOP Volume II, Part 3, §4.7)

G. Compliance Certification

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The certification period will be July 1st through June 30th. The certification shall be submitted by July 31st of each year. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submitted of

I. Standard Conditions

District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division USEPA, Region IX 75 Hawthorne Street San Francisco, CA 94105 Attention: Air-3

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

H. Emergency Provisions

- The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
- 2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
- The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

I. Severability

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

J. Miscellaneous Conditions

1. The maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)

II. EQUIPMENT

A. Permitted Source List

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

S-#	Description	Make or Type	Model	Capacity
S-1	Kirby Canyon MSW Landfill –	Active Landfill		Max. Acceptance Rate =
	Waste Decomposition Process,	Accepting Municipal		2600 tons/day (except for
		Solid Wasted (MSW),		temporary situations
		Commercial, Industrial,		approved by the LEA)
		and Construction		Estimated Maximum
				Cumulative Waste In
				Place = 19.84 million
				tons decomposable
				materials
	Equipped with Active Landfill			Gas Collection Wells =
	Gas Collection System			58
				Leachate Collection
				Wells = 1
S-22	Kirby Canyon MSW Landfill –	Active Landfill		Max. Design Capacity =
	Waste and Cover Material	Accepting MSW,		36.4 million yd ³
	Dumping	Commercial, Industrial,		$(27.8 \text{ million m}^3)$
		and Construction		Max. Acceptance Rate =
				2600 tons/day (except for
				temporary situations
				approved by the LEA)
S-23	Kirby Canyon MSW Landfill –	Active Landfill		Max. Design Capacity =
	Excavating, Bulldozing, and	Accepting MSW,		36.4 million yd ³
	Compacting Activities	Commercial, Industrial,		$(27.8 \text{ million } \text{m}^3)$
		and Construction		Max. Acceptance Rate =
				2600 tons/day (except for
				temporary situations
				approved by the LEA)

Table II A – Permitted Sources

II. Equipment

B. Abatement Device List

		Source(s)	Applicable	Operating	Limit or
A- #	Description	Controlled	Requirement	Parameters	Efficiency
A-12	Enclosed Landfill Gas Flare	S-1	BAAQMD	Minimum combustion	98%
	with Condensate Injection		8-34-301.3,	zone temperature of	destruction of
	System, 5 gal/min maximum		see also	1428 °F, see also	NMOC or
	condensate injection rate,		Table IV-A	Table VII-A	< 30 ppmv of
	149 MMBtu/hr				NMOC, as
					CH ₄ , at 3%
					O ₂ , dry

Table II B – Abatement Devices

C. Exempt Equipment List

Each of the following devices is exempt from major facility review permitting pursuant to the requirements of BAAQMD Regulation 2, Rule 6: Permits, Major Facility Review. The applicable exemption for each device is identified in the table below. Registered portable engines and non-road engines are exempt from BAAQMD Regulation 2, Rule 6 pursuant to BAAQMD Regulation 2-6-113 and 2-6-114, respectively, even though these engines may be required to have a BAAQMD permit to operate pursuant to BAAQMD Regulation 2, Rule 1, Permit, General Requirements. This table may include other types of equipment that are exempt from the requirement to have a BAAQMD permit to operate pursuant to BAAQMD Regulation 2, Rule 1. Equipment that is exempt from BAAQMD permitting requirements does not need to be included in this permit unless the equipment is a significant source, as defined in BAAQMD, Regulation 2-6-239. Any source that must be included in this permit because it is a significant source will be listed in a separate table.

Table II	C –	Exempt	Equipment
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S-;	#	Description	Make or	Model	Capacity	Exemption
			Туре			
S-	8	Portable Diesel IC Engine	John Deere	4045D	80 BHP, 3.3 gal/hr	Reg. 2-6-114
		for a Portable Air			maximum fuel	Non-road
		Compressor			consumption	Engines

III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirements and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit. This section also contains provisions that may apply to temporary sources.

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of the SIP requirements are posted on the EPA Region 9 website. The address is:

http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California& cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions.

NOTE:

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with <u>both</u> versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
BAAQMD Regulation 1	General Provisions and Definitions (5/4/11)	N
SIP Regulation 1	General Provisions and Definitions (6/28/99)	Y
BAAQMD Regulation 2, Rule 1	Permits – General Requirements (3/4/09)	Ν
BAAQMD 2-1-429	Permits – General Requirements – Federal Emissions Statement (12/21/04)	N
SIP Regulation 2, Rule 1	Permits – General Requirements (1/26/99)	Y

III. Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 2-1-429	Permits – General Requirements – Federal Emissions Statement (4/3/95)	Y
BAAQMD Regulation 2, Rule 5	Permits – New Source Review of Toxic Air Contaminants (1/6/10)	Ν
BAAQMD Regulation 4	Air Pollution Episode Plan (3/20/91)	Ν
SIP Regulation 4	Air Pollution Episode Plan (8/06/90)	Y
BAAQMD Regulation 5	Open Burning (7/9/08)	Ν
SIP Regulation 5	Open Burning (9/4/98)	Y
BAAQMD Regulation 6, Rule 1	Particulate Matter – General Requirements (12/5/07)	Ν
SIP Regulation 6	Particulate Matter and Visible Emissions (9/4/98)	Y
BAAQMD Regulation 7	Odorous Substances (3/17/82)	Ν
BAAQMD Regulation 8, Rule 1	Organic Compounds – General Provisions (6/15/94)	Y
BAAQMD Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (7/20/05)	Ν
SIP Regulation 8, Rule 2	Organic Compounds – Miscellaneous Operations (3/22/95)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (7/1/09)	Ν
SIP Regulation 8, Rule 3	Organic Compounds – Architectural Coatings (1/2/04)	Y
BAAQMD Regulation 8, Rule 4	Organic Compounds – General Solvent and Surface Coating Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (10/18/06)	Ν
SIP Regulation 8, Rule 5	Organic Compounds – Storage of Organic Liquids (6/5/03)	Y
BAAQMD Regulation 8, Rule 15	Organic Compounds – Emulsified and Liquid Asphalts (6/1/94)	Y
BAAQMD Regulation 8, Rule 16	Organic Compounds – Solvent Cleaning Operations (10/16/02)	Y
BAAQMD Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (6/15/05)	Ν
SIP Regulation 8, Rule 40	Organic Compounds – Aeration of Contaminated Soil and Removal of Underground Storage Tanks (4/19/01)	Y
BAAQMD Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (6/15/05)	N

III. Generally Applicable Requirements

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)
SIP Regulation 8, Rule 47	Organic Compounds – Air Stripping and Soil Vapor Extraction Operations (4/26/95)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (12/20/95)	Ν
SIP Regulation 8, Rule 49	Organic Compounds – Aerosol Paint Products (3/22/95)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (7/17/02)	Ν
SIP Regulation 8, Rule 51	Organic Compounds – Adhesive and Sealant Products (2/26/02)	Y
BAAQMD Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)	Ν
SIP Regulation 9, Rule 1	Inorganic Gaseous Pollutants – Sulfur Dioxide (6/8/99)	Y
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)	Ν
BAAQMD Regulation 11, Rule 1	Hazardous Pollutants - Lead (3/17/82)	Ν
SIP Regulation 11, Rule 1	Hazardous Pollutants – Lead (9/2/81)	Y
BAAQMD Regulation 11, Rule 2	Hazardous Pollutants – Asbestos Demolition, Renovation and Manufacturing (10/7/98)	Ν
BAAQMD Regulation 11, Rule 14	Hazardous Pollutants – Asbestos Containing Serpentine (7/17/91)	Ν
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (7/11/90)	Ν
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (9/2/81)	Y
California Health and Safety Code Section 41750 et seq.	Portable Equipment	Ν
California Health and Safety Code Section 44300 et seq.	Air Toxics "Hot Spots" Information and Assessment Act of 1987	Ν
California Health and Safety Code, Title 17, Section 93105	Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations (7/26/01)	Ν
California Health and Safety Code, Title 17, Section 93106	Asbestos Airborne Toxic Control Measure for Asbestos Containing Serpentine (7/20/00)	Ν
California Health and Safety Code, Title 17, Section 93116	Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater (2/19/11)	Ν

III. Generally Applicable Requirements

		Federally
Applicable	Regulation Title or	Enforceable
Requirement	Description of Requirement	(Y/N)
40 CFR Part 61, Subpart A	National Emission Standards for Hazardous Air	Y
	Pollutants – General Provisions (9/13/10)	
40 CFR Part 61, Subpart M	National Emission Standards for Hazardous Air	Y
	Pollutants - National Emission Standard for Asbestos	
	(7/20/04)	

IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parentheses in the Title column identify the versions of the regulations being cited and are, as applicable:

- 1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
- 2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of the SIP requirements are posted on the EPA Region 9 website. The address is:

http://yosemite.epa.gov/r9/r9sips.nsf/Agency?ReadForm&count=500&state=California& cat=Bay+Area+Air+Quality+Management+District-Agency-Wide+Provisions

All other text may be found in the regulations themselves.

Table IV – A

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

Table IV – A

		Federally	Future
Applicable	Regulation Title or	Enforceable	Effective
Requirement	Description of Requirement	(Y/N)	Date
1-523.5	Maintenance and calibration	N	
SIP			
Regulation 1	General Provisions and Definitions (6/28/99)		
1-523	Parametric Monitoring and Recordkeeping Procedures	Y	
1-523.3	Reporting requirement for violations of any applicable limits	Y	
BAAQMD			
Regulation 6,	Particulate Matter - General Requirements (12/5/07)		
Rule 1			
6-1-301	Ringelmann No. 1 Limitation	N	
6-1-305	Visible Particles	N	
6-1-310	Particle Weight Limitation (applies to A-12 Flare only)	N	
6-1-401	Appearance of Emissions	Ν	
SIP			
Regulation 6	Particulate Matter and Visible Emissions (12/19/90)		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation (applies to A-12 Flare only)	Y	
6-401	Appearance of Emissions	Y	
BAAQMD	Organic Compounds – Miscellaneous Operations (7/20/05)		
Regulation 8,			
Rule 2			
8-2-301	Miscellaneous Operations (applies to low VOC soil handling and	Y	
	disposal activities only)		
BAAQMD			
Regulation 8,	Organic Compounds – Solid Waste Disposal Sites (6/15/05)		
Rule 34			
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	

Table IV – A

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Meet Section 8-34-118 Requirements	Y	
8-34-117.4	Limits on Number of Wells Shutdown	Y	
8-34-117.5	Shutdown Duration Limit	Y	
8-34-117.6	Well Disconnection Records	Y	
8-34-118	Limited Exemption, Construction Activities	Y	
8-34-118.1	Construction Plan	Y	
8-34-118.2	Activity is Required to Maintain Compliance with this Rule	Y	
8-34-118.3	Required or Approved by Other Enforcement Agencies	Y	
8-34-118.4	Emission Minimization Requirement	Y	
8-34-118.5	Excavated Refuse Requirements	Y	
8-34-118.6	Covering Requirements for Exposed Refuse	Y	
8-34-118.7	Installation Time Limit	Y	
8-34-118.8	Capping Required for New Components	Y	
8-34-118.9	Construction Activity Records	Y	
8-34-301	Landfill Gas Collection and Emission Control System Requirements	Y	
8-34-301.1	Continuous Operation	Y	
8-34-301.2	Collection and Control Systems Leak Limitations	Y	
8-34-301.3	Limits for Enclosed Flares	Y	
8-34-303	Landfill Surface Requirements	Y	

Table IV – A

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
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	Wellhead Vacuum Requirements	Y	
8-34-305.2	Wellhead Temperature Limit	Y	
8-34-305.3	Nitrogen Concentration Limit for Wellhead Gas or	Y	
8-34-305.4	Oxygen Concentration Limit for Wellhead Gas	Y	
8-34-404	Less than Continuous Operation Petition Contents	Y	
8-34-404.1	Landfill gas flow rates, methane concentrations	Y	
8-34-404.2	Collection system map with component locations	Y	
8-34-404.3	Operating, maintenance, and inspection schedule	Y	
8-34-404.4	APCO approval contents	Y	
8-34-404.5	Petition renewal every 3 years	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

Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-415.2	Corrective Action	Y	
8-34-415.3	Re-monitor Excess Location Within 10 Days	Y	
8-34-415.4	Re-monitor Excess Location Within 1 Month	Y	
8-34-415.5	If No More Excesses, No Further Re-Monitoring	Y	
8-34-415.6	Additional Corrective Action	Y	
8-34-415.7	Re-monitor Second Excess Within 10 days	Y	
8-34-415.8	Re-monitor Second Excess Within 1 Month	Y	
8-34-415.9	If No More Excesses, No Further Re-monitoring	Y	
8-34-415.10	Collection System Expansion for Third Excess in a Quarter	Y	
8-34-415.11	Operational Due Date for Expansion	Y	
8-34-416	Cover Repairs	Y	
8-34-501	Operating Records	Y	
8-34-501.1	Collection System Downtime	Y	
8-34-501.2	Emission Control System Downtime	Y	
8-34-501.3	Continuous Temperature Records for Enclosed Combustors	Y	
8-34-501.4	Testing	Y	
8-34-501.5	Monthly landfill gas flow rates and well concentrations for facilities subject to 8-34-404 (less than continuous operation)	Y	
8-34-501.6	Leak Discovery and Repair Records	Y	
8-34-501.7	Waste Acceptance Records	Y	
8-34-501.8	Non-decomposable Waste Records	Y	
8-34-501.9	Wellhead Excesses and Repair Records	Y	
8-34-501.10	Gas Flow Rate Records for All Emission Control Systems	Y	
8-34-501.12	Records Retention for 5 Years	Y	
8-34-503	Landfill Gas Collection and Emission Control System Leak Testing	Y	
8-34-504	Portable Hydrocarbon Detector	Y	
8-34-505	Well Head Monitoring	Y	
8-34-506	Landfill Surface Monitoring	Y	
8-34-507	Continuous Temperature Monitor and Recorder	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
8-34-508	Gas Flow Meter	Y	
8-34-510	Cover Integrity Monitoring	Y	
BAAQMD	Organic Compounds – Aeration of Contaminated Soil and Removal		
Regulation 8,	of Underground Storage Tanks (6/15/05)		
Rule 40			
8-40-110	Exemption, Storage Pile	Y	
8-40-112	Exemption, Sampling	Y	
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	
BAAQMD	Inorganic Gaseous Pollutants – Sulfur Dioxide (3/15/95)		
Regulation 9,			
Rule 1			
9-1-301	Limitations on Ground Level Concentrations (applies to A-12 Flare only)	Y	
9-1-302	General Emission Limitations (applies to A-12 Flare only)	Y	
BAAQMD Regulation 9, Rule 2	Inorganic Gaseous Pollutants – Hydrogen Sulfide (10/6/99)		
9-2-301	Limitations on Hydrogen Sulfide	N	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
40 CFR	Standards of Performance for New Stationary Sources – General		
Part 60,	Provisions (9/13/10)		
Subpart A			
60.4	Address	Y	
60.4(b)	Requires Submission of Requests, Reports, Applications, and Other Correspondence to the Administrator	Y	
60.7	Notification and Recordkeeping	Y	
60.8	Performance Tests	Y	
60.11	Compliance with Standards and Maintenance Requirements	Y	
60.11(a)	Compliance determined by performance tests	Y	
60.11(d)	Control devices operated using good air pollution control practice	Y	
60.12	Circumvention	Y	
60.13	Monitoring Requirements	Y	
60.13(a)	Applies to all continuous monitoring systems	Y	
60.13(b)	Monitors shall be installed and operational before performing performance tests	Y	
60.13(e)	Continuous monitors shall operate continuously	Y	
60.13(f)	Monitors shall be installed in proper locations	Y	
60.13(g)	Requires multiple monitors for multiple stacks	Y	
60.14	Modification	Y	
60.15	Reconstruction	Y	
60.19	General Notification and Reporting Requirements	Y	
40 CFR	Standards of Performance for New Stationary Sources – Emission		
Part 60,	Guidelines and Compliance Times for Municipal Solid Waste		
Subpart Cc	Landfills (2/24/99)		
60.36c	Compliance Times	Y	
60.36c(a)	Collection and Control Systems in Compliance by 30 months after Initial NMOC Emission Rate Report Shows NMOC Emissions ≥ 50 MG/year	Y	

Table IV – A

Applicable	Regulation Title or	Federally Enforceable	Future Effective
Requirement	Description of Requirement	(Y/N)	Date
40 CFR	Approval and Promulgation of State Plans for Designated Facilities		
Part 62,	and Pollutants - California (4/20/06)		
Subpart F			
62.1100	Identification of Plan	Y	
62.1115	Identification of Sources – Existing Municipal Solid Waste Landfills	Y	
40 CFR	National Emission Standards for Hazardous Air Pollutants: General		
Part 63,	Provisions (9/13/10)		
Subpart A			
63.4	Prohibited activities and circumvention	Y	
63.5	Preconstruction review and notification requirements	Y	
63.5(b)	Requirements for existing, newly constructed, and reconstructed sources	Y	
63.6	Compliance with standards and maintenance requirements	Y	
63.6(e)	Operation and maintenance requirements and SSM Plan	Y	
63.6(f)	Compliance with non-opacity emission standards	Y	
63.10	Record keeping and reporting requirements	Y	
63.10(b)	General record keeping requirements	Y	
63.10(b)(2)	For affected sources, maintain relevant records of:	Y	
63.10(b)(2) (i-v)	Records for startup, shutdown, malfunction, and maintenance	Y	
63.10(d)	General reporting requirements	Y	
63.10(d)(5)	Startup, Shutdown, and Malfunction (SSM) Reports	Y	
40 CFR	National Emission Standards for Hazardous Air Pollutants:		
Part 63,	Municipal Solid Waste Landfills (4/20/06)		
Subpart			
AAAA			
63.1945	When do I have to comply with this subpart?	Y	
63.1945(b)	Compliance date for existing affected landfills	Y	
63.1955	What requirements must I meet?	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
63.1955(a)	Comply with either $63.1955(a)(1)$ or $(a)(2)$	Y	
63.1955(a)(2)	Comply with State Plan that implements 40 CFR Part 60, Subpart Cc	Y	
63.1955(b)	Comply with 63.1960-63.1985, if a collection and control system is required by 40 CFR Part 60, Subpart WWW or a State Plan implementing 40 CFR Part 60, Subpart Cc	Y	
63.1955(c)	Comply with all approved alternatives to standards for collection and control systems plus all SSM requirements and 6 month compliance reporting requirements	Y	
63.1960	How is compliance determined?	Y	
63.1965	What is a deviation?	Y	
63.1975	How do I calculate the 3-hour block average used to demonstrate compliance?	Y	
63.1980	What records and reports must I keep and submit?	Y	
63.1980(a)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart WWW or the State Plan implementing 40 CFR Part 60, Subpart Cc, except that the annual report required by 40 CFR 60.757(f) must be submitted every 6 months	Y	
63.1980(b)	Comply with all record keeping and reporting requirements in 40 CFR Part 60, Subpart A and 40 CFR Part 63, Subpart A, including SSM Plans and Reports	Y	
BAAQMD Condition #1437			
Part 1	Design capacity and waste acceptance rate limits (Regulation 2-1-301)	Y	
Part 2	Handling procedures for soils containing VOCs (Regulations 8-40-301, 8-40-304, and 8-40-305)	Y	
Part 3	Low VOC soils for landfill cover (Regulations 2-1-403, 8-40-205 and 8-40-604)	Y	

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Applicable Requirement	Regulation Title or Description of Requirement	Federally Enforceable (Y/N)	Future Effective Date
Part 4	Particulate emission control measures (Regulations 2-1-403, 6-1-301, and 6-1-305)	Y	
Part 5	Control requirements for collected landfill gas (Regulation 8-34-301)	Y	
Part 6	Landfill gas collection system description (Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, and 8-34-305)	Y	
Part 7	Landfill gas collection system operating requirements (Regulation 8-34-301.1)	Y	
Part 8	Flare heat input limits (Regulation 2-1-301)	Y	
Part 9	Flare combustion zone temperature (Regulations 2-5-302 and 8-34-301.3)	Y	
Part 10	Flare NOx limit (RACT)	Y	
Part 11	Flare CO limit (RACT)	Y	
Part 12	Annual source test (RACT, Regulations 2-1-301, 8-34-301.3, 8-34-412, and 9-1-302)	Y	
Part 13	Annual landfill gas characterization test (Regulations 2-5-302 and 8-34-412)	Y	
Part 14	Landfill gas condensate injection rate (Regulation 2-5-302)	Ν	
Part 15	Recordkeeping requirements (Cumulative Increase, Regulations 2-1- 301, 2-6-501, 6-1-301, 6-1-305, 8-2-301, 8-34-301, 8-34-304, 8-34- 501, and 9-1-302)	Y	
Part 16	Reporting periods and due dates for the Regulation 8, Rule 34 annual report (Regulation 8-34-411 and 40 CFR Part 63.1980(a))	Y	
Part 17	Alternate wellhead temperature limits (Regulations 8-34-301.2, 8-34- 303, 8-34-305)	Y	
Part 18	Alternate wellhead temperature limit additions (Regulation 8-34-305)	Y	
Part 19	Alternate leachate collection systems operating requirements (Regulations 2-6-501, 8-34-305, 8-34-404, 8-34-414, 8-34-501.4, 8-34- 501.9)	Y	

V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 1. The owner/operator shall comply with the following waste acceptance and disposal limits and shall obtain the appropriate New Source Review permit, if one of the following limits is exceeded:
 - a. Except for temporary emergency situations approved by the Local Enforcement Agency, the total waste accepted and placed at the landfill shall not exceed 2600 tons in any day. (Basis: Regulation 2-1-301)
 - b. The total cumulative amount of all decomposable materials placed in the landfill shall not exceed 19.84 million tons. Exceedance of the cumulative tonnage limit is not a violation of the permit and does not trigger the requirement to obtain a New Source review permit, if the operator can, within 30 days of the date of discovery of the exceedance, provide documentation to the District demonstrating, in accordance with BAAQMD Regulation 2-1-234.3, that the limit should be higher. (Basis: Regulation 2-1-234.3)
 - c. The maximum design capacity of the landfill (total volume of all wastes placed in the landfill) shall not exceed 36.40 million cubic yards. (Basis: Regulation 2-1-301)
- 2. Handling Procedures for Soil Containing Volatile Organic Compounds
 - a. The procedures listed below in subparts b-l do not apply if the following criteria are satisfied. However, the record keeping requirements in subpart m, below, are applicable.
 - i. The owner/operator has appropriate documentation demonstrating that either the organic content of the soil or the organic concentration above the soil is below the "contaminated" level (as defined in Regulation 8, Rule 40, Sections 205, 207, and 211). The handling of soil containing VOCs in concentrations below the "contaminated" level is subject to Part 3 below.

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - ii. The owner/operator has no documentation to prove that soil is not contaminated, but source of the soil is known and there is no reason to suspect that the soil might contain organic compounds.
 - b. The owner/operator shall provide verbal notification to the Compliance and Enforcement Division of the owner/operator's intention to accept contaminated soil at the facility at least 24 hours in advance of receiving the contaminated soil. The owner/operator shall provide an estimate of the amount of contaminated soil to be received, the degree of contamination (range and average VOC Content), and the type or source of contamination.
 - c. Any soil received at the facility that is known or suspected to contain volatile organic compounds (VOCs) shall be handled as if the soil were contaminated, unless the owner/operator receives test results proving that the soil is not contaminated. To prove that the soil is not contaminated, the owner/operator shall collect soil samples in accordance with Regulation 8-40-601 within 24 hours of receipt of the soil by the facility. The organic content of the collected soil samples shall be determined in accordance with Regulation 8-40-602.
 - i. If these test results indicate that the soil is still contaminated or if the soil was not sampled within 24 hours of receipt by the facility, the owner/operator must continue to handle the soil in accordance with the procedures set forth in subparts e-1, below, until the soil has completed treatment or has been placed in a final disposal location and adequately covered. Storing soil in a temporary stockpile or pit is not considered treatment. Co-mingling, blending, or mixing of soil lots is not considered treatment.
 - ii. If these test results indicate that the soil as received at the facility
 has an organic content of 50 ppmw or less, then the soil is no longer contaminated and shall be handled in accordance with the procedures in Part 3 instead of Part 2, subparts e-l.

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - d. Any contaminated soil received at the facility shall be clearly identified as contaminated soil, shall be handled in accordance with subparts e-l. below, and shall be segregated from non-contaminated soil. Contaminated soil lots may not be co-mingled, blended, or otherwise mixed with non-contaminated soil lots prior to treatment, reuse, or disposal. Mixing soil lots in an attempt to reduce the overall concentration of the contaminated soil or to circumvent any requirements or limits is strictly prohibited.
 - e. On-site handling of contaminated soil shall be limited to no more than 2 on-site transfers per soil lot. For instance, unloading soil from off-site transport vehicles into a temporary storage pile is 1 transfer. Moving soil from a temporary storage to a staging area is 1 transfer. Moving soil from a temporary storage pile to a final disposal site is 1 transfer. Moving soil from a staging area to a final disposal site is 1 transfer. Therefore, unloading soil from off-site transport into a temporary storage pile and then moving the soil from that temporary storage pile to the final disposal site is allowed. Unloading soil from that staging area to the final disposal site is allowed. However, unloading soil from off-site transport to a temporary storage pile, moving this soil to a staging area, and then moving the soil again to a final disposal site is 3 on-site transfers and is not allowed.
 - f. If the contaminated soil has an organic content of less than 500 ppmw, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 90 days of receipt at the facility.
 - g. If the contaminated soil has an organic content 500 ppmw or more, the contaminated soil shall be treated, deposited in a final disposal site, or transported off-site for treatment within 45 days of receipt at the facility.

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - h. All active storage piles shall meet the requirements of Regulation 8-40-304 by using water sprays, vapor suppressants or approved coverings to minimize emissions. The exposed surface area of any active storage pile (including the active face at a landfill) shall be limited to 6000 ft². The types of storage piles that may become subject to these provisions include (but are not limited to) truck unloading areas, staging areas, temporary stockpiles, soil on conveyors, bulldozers or trucks, the active face of a landfill, or other permanent storage pile at the final disposal location.
 - i. All inactive storage piles shall meet the requirements of Regulation 8-40-305 including the requirement to cover contaminated soil during periods of inactivity longer than one hour. The types of storage piles that may become subject to these provisions include (but are not limited to) soil on trucks or other on-site equipment, staging areas, temporary stockpiles, and the permanent storage pile at the final disposal location. District approved coverings for inactive storage piles include continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) or encapsulating vapor suppressants (with re-treatment as necessary to prevent emissions).
 - j. The owner/operator must:
 - i. Keep contaminated soil covered with continuous heavy-duty plastic sheeting (in good condition, joined at the seams, and securely anchored) whenever soil is to be stored in temporary stockpiles or during on-site transport in trucks. Soil in trucks shall not be left uncovered for more than 1 hour.
 - ii. Establish a tipping area for contaminated soils near the active face that is isolated from the tipping area for other wastes.
 - iii. Spray contaminated soil with water or vapor suppressant immediately after dumping the soil from a truck at the tipping area.
 - iv. Ensure that all contaminated soil is transferred from the tipping area to the active face immediately after spraying with water or vapor suppressant.

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - v. Ensure that contaminated soil in the tipping area is not disturbed by subsequent trucks. Trucks shall not drive over contaminated soil in the tipping area or track contaminated soil out of the tipping area on their wheels.
 - vi. Spray contaminated soil on the active face with water or vapor suppressant (to keep the soil visibly moist) until the soil can be covered with an approved covering.
 - vii. Limit the area of exposed soil on the active face to no more than 6000 ft^2 .
 - viii. Ensure that contaminated soil spread on the active face is completely covered on all sides with one of the following approved coverings: at least 6 inches of clean compacted soil, at least 12 inches of compacted garbage, or at least 12 inches of compacted green waste.
 - ix. Ensure that covering of soil on the active face is completed within one hour of the time that the soil was first dumped from a truck at the tipping area.
 - k. Contaminated soil shall not be used as daily, intermediate, or final cover material for landfill waste operations unless the requirements of Regulation 8, Rule 40, Sections 116 or 117 have been satisfied.
 - 1. Contaminated soil is considered to be a decomposable solid waste pursuant to Regulation 8, Rule 34. All contaminated soil disposed of at a site shall be included in any calculations of the amount of decomposable waste in place that are necessary for annual reporting requirements or for purposes of 8-34-111 or 8-34-304.
 - m. The owner/operator shall keep the following records for each lot of soil received, in order to demonstrate on-going compliance with the applicable provisions of Regulation 8, Rule 40.

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - i. For all soil received by the facility (including soil with no known contamination), record the arrival date at the facility, the soil lot number, the amount of soil in the lot, the organic content or organic concentration of the lot (if known), the type of contamination (if any), and keep copies of any test data or other information that documents whether the soil is contaminated (as defined in 8-40-205) or not contaminated, with what, and by how much.
 - ii. If the soil is tested for organic content after receipt by the facility, record the sampling date, test results, and the date that these results were received.
 - iii. For all on-site handling of contaminated soil, use a checklist or other approved method to demonstrate that appropriate procedures were followed during all on-site handling activities. One checklist shall be completed for each day and for each soil lot (if multiple lots are handled per day).
 - iv. For soil aerated in accordance with 8-40-116 or 117 record the soil lot number, the amount of soil in the lot, the organic content, the final placement date, the final placement location, and describe how the soil was handled or used on-site.
 - v. For final disposal at a landfill, record on a daily basis the soil lot number, the amount of soil placed in the landfill, the disposal date, and the disposal location.

All records shall be retained for at least 5 years from the date of entry and shall be made available for District inspection upon request.

(basis: Regulations 8-40-301, 8-40-304 and 8-40-305)

Condition #1437

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 3. Low VOC soil (soil that contains 50 ppmw or less of VOC) is not considered to be "contaminated soil" and may be used as daily, intermediate, or final cover material for landfill waste operations if the organic concentration above the soil does not exceed 50 ppmv (expressed as methane, C1). To demonstrate compliance with this requirement, each lot of soil to be used as cover material shall be randomly screened for VOC surface emissions (in such a manner as to be representative of the entire lot) using the testing procedures outlined in Regulation 8-40-604. The owner/operator shall keep the following records for each lot of soil subject to this requirement:
 - a. The soil lot number as established in part 2m.i. (above).
 - b. The time and date of the soil screening.
 - c. The name and affiliation of the person performing the monitoring.
 - d. The results of the screening and an acknowledgement that the procedures outlined in Regulation 8-40-604 were used.

Soil presumed to be low VOC soil that is found to have a surface VOC concentration greater than 50 ppmv as described above shall be considered contaminated soil and will be subject to the requirements of part 2 of these conditions. (basis: Regulations 2-1-403, 8-40-205, 8-40-604)

- 4. Water and/or dust suppressants shall be applied to all unpaved roadways, active soil removal, and fill areas as necessary to prevent visible particulate emissions. Paved roadways shall be kept sufficiently clear of dirt and debris to prevent visible particulate emissions from vehicle traffic or wind. (basis: Regulations 2-1-403, 6-1-301, and 6-1-305)
- 5. All collected landfill gas shall be vented to properly operating Landfill Gas Flare (A-12). Raw landfill gas shall not be vented to the atmosphere, except for unavoidable landfill gas emissions that occur during collection system installation, maintenance, or repair that is performed in compliance with Regulation 8, Rule 34, Sections 113, 116, 117, or 118 and for component or surface leaks that do not exceed the limits specified in 8-34-301.2 or 8-34-303. (basis: Regulation 8-34-301)

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 6. The owner/operator shall apply for and receive a Change of Conditions from the District before altering the landfill gas collection system described in Parts 6a-b below. Increasing or decreasing the number of wells or collectors, changing the length of collectors, or changing the locations of wells or collectors are alterations that are subject to this requirement.
 - a. The owner/operator has been issued a Permit to Operate for the landfill gas collection system and leachate collection system components listed below. Well and collector locations, depths, and lengths are as described in detail in Permit Applications #2232, #7835, #11730, #17016, and #21786.

Current

Total Number of Vertical Landfill Gas Extraction Wells:58Total Number of Horizontal Landfill Gas Trench Collectors:0Total Number of Leachate Collection Wells:1

b. The owner/operator is authorized to make the landfill gas collection system and leachate collection system component alterations listed below. Specific details regarding well alterations are described in Permit Application #23446.

	Minimum	Maximum
Install new Vertical Gas Extraction Wells:	0	45
Replace Vertical Gas Extraction Wells:	0	103
Decommission Vertical Gas Extraction We	ells: 0	40
Install new Horizontal Trench Collectors	0	5
Decommission Horizontal Trench Collecto	ors 0	2
Install new Leachate Cleanout Risers	0	15
Decommission Leachate Cleanout Risers	0	8

Wells installed, relocated, replaced, or shutdown pursuant to Part 6b shall be added to or removed from Part 6a in accordance with the procedures identified in Regulations 2-6-414 or 2-6-415. The owner/operator shall maintain records of the decommissioning date for each well that is shutdown and the initial operation date for each new or relocated well.

(basis: Regulations 2-1-301, 8-34-301.1, 8-34-303, 8-34-304, 8-34-305)

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 7. The landfill gas collection system described in Part 6a shall be operated continuously as defined in Regulation 8-34-219, except for leachate collection wells that are specifically allowed to operate less than continuously pursuant to Part 19. Wells shall not be shut off, disconnected or removed from operation without written authorization from the APCO, unless the owner/operator complies with all applicable requirements of Regulation 8, Rule 34, Sections 113, 116, 117, and 118 and Condition #1437, Part 19. (basis: Regulation 8-34-301.1)
- 8. The owner/operator shall ensure that the heat input to the A-12 Landfill Gas Flare does not exceed 3,576 million Btu per day and does not exceed 1,305,240 million Btu per year. In order to demonstrate compliance with this part, the owner/operator shall calculate and record, on a monthly basis, the maximum daily and total monthly heat input to the flare based on: (a) the landfill gas flow rate recorded pursuant to part 15h, (b) the average methane concentration in the landfill gas measured in most recent source test, and (c) a high heating value for methane of 1013 BTU per cubic foot at 60 degrees F. (basis: Regulation 2-1-301)
- 9. The minimum combustion zone temperature of the Flare A-12 shall be determined by the results of the most recent source test in which compliance with all applicable requirements was demonstrated. The minimum combustion zone temperature shall be 1428 degrees F, which was determined from the average temperature measured during the complying source test on 1/20/09 minus 50 degrees F. Once the minimum temperature has been established, it shall be maintained during all periods of flare operation. Compliance with the temperature limit shall be based on a 3-hour averaging period. Under no circumstances shall the minimum flare temperature be less than 1,400 degrees F. Based on the results of required source testing of the flare, the APCO may add an explicit temperature limit to the conditions for the Flare A-12 in accordance with the procedures identified in Regulation 2-6-414 or 2-6-415. (Basis: Regulations 2-5-302 and 8-34-301.3)
- 10. The owner/operator shall ensure that emissions of Nitrogen Oxides (NOx) from the Flare A-12 do not exceed 0.05 pounds per million BTU (calculated as NO₂). (basis: RACT)

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 11. The owner/operator shall ensure that emissions of Carbon Monoxide (CO) from the Flare A-12 do not exceed 0.3 pounds per million BTU. (basis: RACT).
- 12. To demonstrate compliance with Regulation 8, Rule 34, Sections 301.3 and 412, and the above requirements, the owner/operator shall ensure that a District approved source test is conducted on the Landfill Gas Flare (A-12) within 90 days of startup, followed by annual source tests thereafter. The owner/operator shall obtain prior approval from the Source Test Manager for the location of sampling ports and source testing procedures. The startup and annual source tests shall determine the following:
 - a. landfill gas flow rate to the flare (dry basis);
 - b. concentrations (dry basis) of carbon dioxide (CO₂), nitrogen (N₂), oxygen (O₂), methane (CH₄), and total non-methane organic compounds (NMOC) in the landfill gas;
 - c. stack gas flow rate from the flare (dry basis);
 - d. concentrations (dry basis) of nitrogen oxides (NOx), carbon monoxide (CO), CH₄, NMOC, SO₂, and O₂ in the flare stack gas;
 - e. the NMOC destruction efficiency achieved by the flare; and
 - f. the average combustion temperature in the flare during the test period.

Annual source tests shall be conducted no later than 12 months after the previous source test. The Source Test Section of the District shall be contacted to obtain approval of the source test procedures at least 14 days in advance of each source test. The Source Test Section shall be notified of the scheduled test date at least 7 days in advance of each source test. The source test report shall be submitted to the Compliance and Enforcement Division and to the Source Test Section within 60 days of the test date. (basis: RACT, Regulations 2-1-301, 2-5-302, 8-34-301.3, 8-34-412, and 9-1-302)

- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 13. The owner/operator shall conduct a characterization of the landfill gas concurrent with the annual source test required by part 12 above. The landfill gas sample shall be drawn from the main landfill gas header. In addition to the compounds listed in part 12b, the landfill gas shall be analyzed for all the compounds listed in the most recent version of EPA's AP-42 Table 2.4-1 excluding acetone, carbon monoxide, and mercury. All concentrations shall be reported on a dry basis. The test report shall be submitted to the Compliance and Enforcement Division within 60 days of the test date. After conducting three annual landfill gas characterization tests, the owner/operator may request to remove specific compounds from the list of compounds to be tested for if the compounds have not been detected, have no significant impact on the hazard index determination for the site. (basis: Regulations 2-5-302 and 8-34-412)
- *14. The landfill gas condensate injection rate into the flare shall not exceed 5 gallons per minute. Total landfill gas condensate injection throughput shall not exceed 1,500,000 gallons during any consecutive twelve-month period. The owner/operator may submit a written petition to the District to increase the landfill gas condensate injection rate subject to current District-approved source test results. (basis: Regulation 2-5-302)
- 15. To demonstrate compliance with the above conditions, the owner/operator shall maintain the following records in a District approved logbook.
 - a. The total amount of municipal solid waste received at S-1 recorded on a daily basis. A summary of the daily waste acceptance records for each calendar month.
 - b. For each area or cell that is not controlled by a landfill gas collection system, a record of the date that waste was initially placed in the area or cell. The cumulative amount of waste placed in each uncontrolled area or cell recorded on a monthly basis.
 - c. If the owner/operator plans to exclude an uncontrolled area or cell from the collection system requirement, the owner/operator shall also record the types and amounts of all non-decomposable waste placed in the area and the percentage (if any) of decomposable waste placed in the area.
 - d. Low VOC soil screening data, pursuant to part 3.

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - e. The dates, locations, and frequency per day of all watering activities on unpaved roads or active soil or fill areas. The dates, locations, and type of any dust suppressant applications. The dates and description of all paved roadway cleaning activities. All records shall be summarized monthly.
 - f. The initial operation date for each new landfill gas well and collector.
 - g. An accurate map of the landfill that indicates the locations of all refuse boundaries and the locations of all wells and collectors (using unique identifiers) that are required to be operating continuously pursuant to part 6a. Any areas containing only non-decomposable waste shall be clearly identified. This map shall be updated at least once a year to indicate changes in refuse boundaries and to include any newly installed wells and collectors.
 - h. The operating times and the landfill gas flow rate to the A-12 Landfill Gas Flare recorded on a daily basis. A monthly summary of the heat input to A-12, pursuant to part 8 shall be calculated and recorded.
 - i. Continuous records of the combustion zone temperature for the A-12 Landfill Gas Flare during all hours of operation.
 - j. Records of all test dates and test results performed to maintain compliance with parts 12 and 13 above or any applicable rule or regulation.
 - k. Records of landfill gas condensate injection throughput and the duration of the injection recorded daily.

All records shall be maintained on site or shall be made readily available to District staff upon request for at least 5 years from the date of entry. These recordkeeping requirements do not replace the recordkeeping requirements contained in any applicable rules or regulations.

(basis: Cumulative Increase, 2-1-301, 2-6-501, 6-1-301, 6-1-305, 8-2-301, 8-34-301, 8-34-304, 8-34-501, and 9-1-302)

16. The annual report required by BAAQMD Regulation 8-34-411 shall be submitted in two semi-annual increments. The reporting periods and report submittal due dates for the Regulation 8-34-411 report shall be synchronized with the reporting periods and report submittal due dates for the semi-annual MFR Permit monitoring reports that are required by Section I.F. of the MFR Permit for this site. (basis: Regulation 8-34-411 and 40 CFR Part 63.1980(a))

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
- 17. The gas collection system operating requirements listed below shall replace the well head requirements identified in Regulation 8-34-305.2 through 8-34-305.4 for the specified wells and collectors. All wells and collectors remain subject to the Regulation 8-34-305.1 requirement to maintain vacuum at each well head.
 - a. The Regulation 8-34-305.2 temperature limit shall not apply to the Wells 36 through 39, 43 through 44, 45, 51, 52, 53, 56, 57, 58, 59, 60, 64, 65, 66, 74, 75, 76, 77, 78, 79, 80, 81, 86, and 87 and any other wells for which the District has approved a higher operating temperature value, provided that the landfill gas temperature at each of the identified wells (except Wells 56, 75, and 80) does not exceed 145 degrees F (63 degrees C) and that the temperature at Wells 56, 75, and

80 does not exceed 156 degrees F (69 degrees C).

- b. The owner/operator shall demonstrate compliance with the alternative wellhead landfill gas temperature limit in 17(a) above by monitoring the temperature of each wellhead on a monthly basis, in accordance with Regulation 8-34-505.
- c. All records to demonstrate compliance with Part 17(a) and all applicable sections of BAAQMD Regulation 8, Rule 34 shall be recorded in a District-approved log and made available to District staff upon request in accordance with Regulation 8-34-501.4, 501.9, and 414.
- d. If the temperatures measured at any of the Part 17(a) wells are found to exceed the temperature limit in Part 17(a), the owner/operator shall take all measures necessary to investigate the possibility of subsurface fires, including landfill gas testing for carbon monoxide (CO) on those landfill gas collection wells in Part 17(a) that exceed the operating temperature limit. If a fire is suspected, the owner/operator shall employ all means as appropriate to extinguish the fire, repair the well(s), and bring the well(s) back into service according to Section 8-34-414.

(basis: Regulations 8-34-301.2, 8-34-303, and 8-34-305)

- 18. If any other well has a temperature of 131 degrees F or higher, the owner/operator may elect to add this component to the list of alternative temperature limit wells in Part 17 if all of the following requirements are met:
 - a. The wellhead temperature does not exceed 145 degrees F.

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - b. The carbon monoxide (CO) concentration in the wellhead gases does not exceed 500 ppmv.
 - c. The component does not exceed any wellhead limit other than temperature and had no excesses of wellhead limits (other than temperature) during the past 120 days prior to adding this component to the list in this subpart, unless the excess is positive pressure at the well from the well vacuum being reduced to eliminate any potential over pull that could contribute to a landfill fire.
 - d. Prior to adding a component to the list in Part 17, the owner/operator shall monitor the gas in the wellhead for CO concentration at least two times, with no more than 15 days between tests. CO monitoring shall continue on a monthly basis, or more frequently if required below, until the owner/operator is allowed to discontinue CO monitoring per subpart e(ii)(3).
 - e. The owner/operator shall comply with all applicable monitoring and recordkeeping requirements below:
 - i. The owner/operator shall demonstrate compliance with the alternative wellhead temperature limit by monitoring and recording the temperature of the landfill gas in the wellhead on a monthly basis, in accordance with Regulations 8-34-501.4, 8-34-501.9, and 8-34-505.
 - ii. If the temperature of the landfill gas in the wellhead exceeds 140 degrees F, the owner/operator shall investigate the possibility of a subsurface fire at the wellhead by monitoring CO concentration in the wellhead gases and by searching for smoke, smoldering odors, combustion residues, and other fire indicators in the wellhead and in the landfill area near the wellhead. Within 5 days of triggering a fire investigation, the owner/operator shall measure the CO concentration in the landfill gas at the wellhead using a portable CO monitor, CO Draeger tube, or an EPA-approved test method. CO monitoring shall continue according to the frequency specified below:

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - 1. If the CO concentration is greater than 500 ppmv, the owner/operator shall immediately take all steps necessary to prevent or extinguish the subsurface fire, including disconnecting the well from the vacuum system if necessary. If the well is not disconnected from the vacuum system or upon reconnecting the well to the vacuum system, the owner/operator shall monitor the well for CO concentration, wellhead temperature, and other fire indicators on at least a weekly basis until CO concentration drops to 500 ppmv or less.
 - 2. If the CO concentration is less than or equal to 500 ppmv but great than 100 ppmv, the owner/operator shall monitor for CO concentration at least twice per month (not less than once every 15 days) until the CO concentration drops to 100 ppmv or less. Wellhead temperature and other fire indicators shall be evaluated at each of these semi-monthly monitoring events.
 - 3. If the CO concentration is less than or equal to 100 ppmv, the owner/operator shall monitor for CO concentration on a monthly basis. CO monitoring may be discontinued if three consecutive CO measurements are 100 ppmv or less and the wellhead temperature during each of these three monitoring events is 140 degrees F or less. If the component has three or more CO measurement of 100 ppmv or less but the wellhead temperature was greater than 140 degrees F, the owner/operator must receive written approval from the District before discontinuing the monthly CO monitoring at that component.
 - iii. The owner/operator shall record the dates and results of all monitoring events required by this subpart in a District-approved log. If subpart 18e(ii) or 18e(ii)(1) applies, the owner/operator shall also record all actions taken to prevent or extinguish the fire.

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - f. Within 30 days of adding a component to the list in this subpart, the owner/operator shall notify the District in writing that the operator is requesting to add the component to the list of alternative temperature limit wells. This notification shall include the well ID number, a map of the collection system to identify the location of the well, and the dates and results of all monitoring conducted on the well to verify that the above requirements have been satisfied.
 - g. If the Regulation 8-34-414 repair schedule has been invoked for the wellhead temperature excess and the owner/operator has met the requirement in Sections 414.1 and 414.2, then compliance with the requirements of the subpart shall be deemed an acceptable resolution of the wellhead temperature excess in lieu of the collection system expansion specified in Section 414.3 and 414.4.

(basis: Regulation 8-34-305)

- 19. The leachate collection system operating requirements listed below shall replace the operating requirements identified in Regulation 8-34-301.1, 8-34-305.1, 8-34-305.3, and 8-34-305.4 for the leachate collection risers (LCRs) LR-04 and any other LCRs for which the District has approved for inclusion in Part 19. All LCRs remain subject to the landfill gas temperature limit in Regulation 8-34-305.2.
 - a. The Regulation 8-34-305.3 and 8-34-305.4, the nitrogen and oxygen content limits, shall not apply, provided that each LCR is operated at a oxygen concentration not to exceed 15% by volume.
 - b. If compliance with Part 19(a) requires turning off the vacuum to a LCR, the Regulation 8-34-301.1 continuous operation and 8-34-305.1 negative pressure requirement shall not apply if the owner/operator ensures the pressure at the affected LCR does not exceed 0.5 inches water column. This allowance for less than continuous operation will expire on October 30, 2013, unless the owner/operator requests renewal of this provision pursuant to Regulation 8-34-404 and the District approves the request.

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- For: S-1 Kirby Canyon MSW Landfill Waste Decomposition Process; Equipped with Landfill Gas Collection System; abated by A-12, Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; and S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities
 - c. The owner/operator shall demonstrate compliance with the oxygen content limit in 19(a) alternative wellhead pressure limit in 19(b) by installing and maintaining a District-approved vacuum/pressure gauge at each LCR and by monitoring and recording the oxygen content and pressure at each affected LCR on a monthly basis, in accordance with Regulation 8-34-501 and 8-34-505.
 - d. The owner/operator may elect to add additional LCRs to these alternate operating conditions by notifying the District in writing of this request, with identification of the LCR ID number(s) and submittal of the information required by Regulation 8-34-404.
 - e. All records to demonstrate compliance with Part 19 and all applicable sections of BAAQMD Regulation 8, Rule 34 shall be recorded in a District-approved log and made available to District staff upon request for at least 5 years from date of entry.

(basis: Regulations 8-34-305, 8-34-404, 8-34-414, 8-34-501.4, and 8-34-501.9)

VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic (P) or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown using the following codes: annual (A), quarterly (Q), monthly (M), weekly (W), daily (D), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

This section is only a summary of the limits and monitoring requirements. In the case of a conflict with any requirement in Sections I-VI, the preceding sections take precedence over Section VII.

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Applicable Limits and Compliance Monitoring Requirements S-1 Kirby Canyon MSW Landfill – Waste Decomposition Process; equipped with Landfill Gas Collection System; Abated by A-12 Enclosed Landfill Gas Flare with Condensate Injection System; S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping; S-23 Kirby Canyon MSW Landfill – Excavating, Bulldozing, and Compacting Activities

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Collection	BAAQMD	Y		For Inactive/Closed Areas:	BAAQMD	P/E	Records
System	8-34-304.1			collection system	8-34-501.7		
Installation				components must be	and 501.8 and		
Dates				installed and operating by	BAAQMD		
				2 years + 60 days	Condition		
				after initial waste	#1437, Parts		
				placement	15b-c and		
					15f-g		

Table VII – A

Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Collection	BAAQMD	Y		For Active Areas:	BAAQMD	P/E	Records
System	8-34-304.2			Collection system	8-34-501.7		
Installation				components must be	and 501.8 and		
Dates				installed and operating by	BAAQMD		
				5 years + 60 days	Condition		
				after initial waste	#1437, Parts		
				placement	15b-c and		
					15f-g		
Collection	BAAQMD	Y		For Any Uncontrolled	BAAQMD	P/E	Records
System	8-34-304.3			Areas or Cells: collection	8-34-501.7		
Installation				system components must be	and 501.8 and		
Dates				installed and operating	BAAQMD		
				within 60 days after the	Condition		
				uncontrolled area or cell	#1437, Parts		
				accumulates 1,000,000 tons	15a-c and		
				of decomposable waste	15f-g		
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	С	Gas Flow
	8-34-301			system shall operate	8-34-501.10		Meter and
	and 301.1			continuously, except as	and 508,		Recorder
				described in Condition	and		(every 15
				#1437, Part 19, and all	Condition		minutes),
				collected gases shall be	#1437,		and
				vented to a properly	Part 19e		Records
				operating control system			

Table VII – A

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Gas Flow	BAAQMD	Y		Landfill gas collection	BAAQMD	P/D	Records of
	Condition			system shall operate	Condition		Landfill Gas
	#1437,			continuously, except as	#1437, Parts		Flow Rates,
	Parts 5, 6,			described in Condition	15f-h and 19e		Collection
	7, and 19			#1437, Part 19, and all			and Control
				collected gases shall be			Systems
				vented to a properly			Downtime,
				operating control system			Collection
							System
							Components
							, and
							Component
							Downtime
Collection	BAAQMD	Y		\leq 240 hours/year	BAAQMD	P/D	Operating
and Control	8-34-113.2			and	8-34-501.1		Records
Systems				\leq 5 consecutive days			
Shutdown							
Time							
Periods of	BAAQMD	Y		\leq 15 consecutive days per	BAAQMD	P/D	Operating
Inoperation	1-523.2			incident	1-523.4		Records for
for Para-				and			All
metric				<u><</u> 30 calendar days			Parametric
Monitors				per 12 month period			Monitors
Continuous	40 CFR	Y		Requires Continuous	40 CFR	P/D	Operating
Monitors	60.13(e)			Operation except for	60.7(b)		Records for
				breakdowns, repairs,			All
				calibration, and required			Continuous
				span adjustments			Monitors

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Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Wellhead	BAAQMD	Y		< 0 psig,	BAAQMD	P/M	Monthly
Pressure	8-34-305.1			except for leachate	8-34-414,		Inspection
				collection risers subject to	501.9 and		and Records
				Part 19 of Condition 1437	505.1		
					and		
					BAAQMD		
					Condition		
					#1437,		
					Part 19e		
Wellhead	BAAQMD	Y		\leq 0.5 inches water column	BAAQMD	P/M	Monthly
Pressure	Condition			for leachate collection risers	Condition		Inspection
	#1437,			subject to Part 19 of	#1437,		and Records
	Part 19b			Condition 1437	Parts 19c and		
					19e		
Temperature	BAAQMD	Y		< 55 °C,	BAAQMD	P/M	Monthly
of Gas at	8-34-305.2			except for wells subject to	8-34-414,		Inspection
Wellhead				Part 17 of Condition 1437	501.9 and		and Records
					505.2		
Temperature	BAAQMD	Y		<u><</u> 145 °F (<u><</u> 63 °C),	BAAQMD	P/M	Monthly
of Gas at	Condition			for wells subject to Part 17	Condition		Inspection
Wellhead	#1437,			of Condition 1437 (except	#1437,		and Records
	Parts 17a			Well 56), and	Parts 17b		
	and 18a			\leq 156 °F (\leq 69 °C), for	and 18e		
				Well 56, 75, 80			
Gas Concen-	BAAQMD	Y		$N_2 < 20\%$ by volume OR	BAAQMD	P/M	Monthly
trations at	8-34-305.3			$O_2 < 5\%$ by volume,	8-34-414,		Inspection
Wellhead	or 305.4			except for leachate	501.9 and		and Records
				collection risers subject to	505.3 or		
				Part 19 of Condition 1437	505.4		

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Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Gas Concen-	BAAQMD	Y		$O_2 \le 15\%$ by volume,	BAAQMD	P/M	Monthly
trations at	Condition			for leachate collection risers	Condition		Inspection
Wellhead	#1437,			subject to Part 19 of	#1437,		and Records
	Part 19a			Condition 1437	Parts 19c and		
					19e		
Gas Concen-	BAAQMD	Y		CO <u><</u> 500 ppmv,	BAAQMD	P/E	Portable
trations at	Condition			for leachate collection risers	Condition		Monitor
Wellhead	#1437,			subject to Parts 17 and 18	#1437,		Inspections
	Part 18b			of Condition 1437 that have	Parts 18e		and Records
				a wellhead T > 140 $^{\circ}$ F			
Well	BAAQMD	Y		No more than 5 wells at a	BAAQMD	P/D	Records
Shutdown	8-34-116.2			time or 10% of total	8-34-116.5		
Limits for				collection system,	and 501.1		
Well Raising				whichever is less			
Well	BAAQMD	Y		\leq 24 consecutive hours	BAAQMD	P/D	Records
Shutdown	8-34-116.3			per well	8-34-116.5		
Limits for					and 501.1		
Well Raising							
Well	BAAQMD	Y		No more than 5 wells at a	BAAQMD	P/D	Records
Shutdown	8-34-117.4			time or 10% of total	8-34-117.6		
Limits for				collection system,	and 501.1		
Repair,				whichever is less			
Construction,							
Fire							
Well	BAAQMD	Y		\leq 24 consecutive hours	BAAQMD	P/D	Records
Shutdown	8-34-117.5			per well	8-34-117.6		
Limits for					and 501.1		
Repair,							
Construction,							
Fire							

Table VII – A

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Landfill Construction Activity	BAAQMD 8-34-118.5	Y		Excavated refuse covered immediately and disposed $of \le 24$ hours	BAAQMD 8-34-118.9 and 501.1	P/D	Records
Limits Landfill Construction Activity Limits	BAAQMD 8-34-118.6	Y		Drilled wells and excavated trenches covered ≤ 8 hours	BAAQMD 8-34-118.9 and 501.1	P/D	Records
TOC (Total Organic Compounds Plus Methane)	BAAQMD 8-34-301.2	Y		Component Leak Limit: ≤ 1000 ppmv as methane	BAAQMD 8-34-501.6 and 503	P/Q	Quarterly Inspection of collection and control system components with OVA and Records
TOC	BAAQMD 8-34-303	Y		Surface Leak Limit: ≤ 500 ppmv as methane at 2 inches above surface	BAAQMD 8-34-415, 416, 501.6, 506 and 510	P/M, Q, and E	Monthly Visual Inspection of Cover, Quarterly Inspection with OVA of Surface, Various Reinspec- tion Times for Leaking Areas, and Records

Table VII – A

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Non-Methane	BAAQMD	Y	Date	\geq 98% removal by weight	BAAQMD	P/A	Initial and
Organic	8-34-301.3	1		<u>> 50%</u> removal by weight OR	8-34-412 and	1/11	Annual
Com-pounds	0 0 1 001.0			< 30 ppmv,	8-34-501.4		Source Tests
(NMOC)				dry basis @ 3% O_2 ,	and		and Records
(1,1,1,0,0)				expressed as methane	BAAQMD		
				(applies to A-12 Flare only)	Condition		
				(appres to 11 12 1 are only)	#1437,		
					Part 12		
Temperature	BAAQMD	Y		$CT \geq 1428 ^{\circ}F,$	BAAQMD	С	Temperature
of	Condition			averaged over	8-34-501.3	-	Sensor and
Combustion	#1437,			any 3-hour period	and 507, and		Recorder
Zone (CT)	Part 9			(applies to A-12 Flare only)	BAAQMD		(continuous)
~ ~ ~					Condition		`
					#1437,		
					Part 15i		
Total Carbon	BAAQMD	Y		\leq 15 pounds/day or	BAAQMD	P/E	Inspection
	8-2-301			< 300 ppm, dry basis	Condition #		with
				(applies only to aeration of	1437,		Portable
				or use as cover soil of soil	Parts 3, 15d		Organic
				containing < 50 ppmw of			Vapor
				volatile organic			Analyzer
				compounds)			and Records
Amount of	BAAQMD	Y		< 1 cubic yard per project	BAAQMD	P/E	Records
Contaminated	8-40-116.1				Condition #		
Soil Aerated	and				1437,		
or Used as	BAAQMD				Part 2m		
Cover	Condition #						
	1437,						
	Part 2						

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Type of	Citation of	FE	Future Effective		Monitoring Requirement	Monitoring Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Amount of	BAAQMD	Y		\leq 8 cubic yards per project,	BAAQMD	P/E	Records
Contami-	8-40-116.2			provided organic content	Condition #		
nated Soil	and			<u><</u> 500 ppmw	1437,		
Aerated or	BAAQMD			and limited to 1 exempt	Part 2m		
Used as	Condition			project per 3 month period			
Cover	#1437,						
	Part 2						
Amount of	BAAQMD	Y		Prohibited for Soil with	BAAQMD	P/E	Records
Contami-	8-40-301			Organic Content >50 ppmw	Condition #		
nated Soil	and			unless exempt per	1437,		
Aerated or	BAAQMD			BAAQMD 8-40-116, 117,	Part 2m		
Used as	Condition			or 118			
Cover	#1437,						
	Part 2						
Onsite	BAAQMD	Y		\leq 2 onsite transfers per	BAAQMD	P/E	Records
Transfers of	Condition			contaminated soil lot	Condition #		
Contaminated	#1437,				1437,		
Soil	Part 2e				Part 2m		
Disposal of	BAAQMD	Y		For contaminated soil with	BAAQMD	P/E	Records
Contaminated	Condition			organic content < 500	Condition #		
Soil	#1437,			ppmw, treatment, final	1437,		
	Part 2f			deposit, or offsite transport	Part 2m		
				\leq 90 days of receipt			
Disposal of	BAAQMD	Y		For contaminated soil with	BAAQMD	P/E	Records
Contaminated	Condition			organic content ≥ 500	Condition #		
Soil	#1437,			ppmw, treatment, final	1437,		
	Part 2g			deposit, or offsite transport	Part 2m		
				\leq 45 days of receipt			

Table VII – A

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Amount of	BAAQMD	Y		Soil Contaminated by	None	Ν	N/A
Accidental	8-40-117			Accidental Spillage of ≤ 5			
Spillage	and			Gallons of Liquid Organic			
	BAAQMD			Compounds			
	Condition #						
	1437,						
	Part 2						
Total	BAAQMD	Y		<u> < 150 pounds VOC per </u>	BAAQMD	P/E	Records
Aeration	8-40-118			project and	Condition		
Project	and			toxic air contaminant	#1437,		
Emissions	BAAQMD			emissions < BAAQMD	Part 2m		
	Condition #			Table 2-5-1 trigger levels			
	1437,						
	Part 2						
Low VOC	BAAQMD	Y		Soil with Organic Vapor	BAAQMD	P/E	Surface
Soil	Condition #			Concentration <50 ppmv	8-40-604 and		Organic
	1437,			Acceptable as Cover	BAAQMD		Vapor
	Part 3			Material	Condition #		Monitoring
					1437,		
					Part 3		
Opacity	BAAQMD	Ν		Ringelmann No. 1	BAAQMD	P/E, M	Records of
	6-1-301			for \leq 3 minutes/hr	Condition		all site
				(applies to S-22 and S-23)	#1437,		watering and
					Part 15e		road
							cleaning
							events
Opacity	BAAQMD	Ν		Ringelmann No. 1	None	Ν	N/A
	6-1-301			for \leq 3 minutes/hr			
				(applies to A-12 Flare)			

Table VII – A

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD	N		≤ 0.15 grains/dscf	None	N	N/A
	6-1-310			(applies to A-12 Flare only)			
Opacity	SIP 6-301	Y		Ringelmann No. 1	BAAQMD	P/E, M	Records of
1 2				for \leq 3 minutes/hr	Condition	,	all site
				(applies to S-22 and S-23)	#1437,		watering and
					Part 15e		road
							cleaning
							events
Opacity	SIP 6-301	Y		Ringelmann No. 1	None	Ν	N/A
				for \leq 3 minutes/hr			
				(applies to A-12 Flare)			
FP	SIP 6-310	Y		\leq 0.15 grains/dscf	None	Ν	N/A
				(applies to A-12 Flare only)			
SO_2	BAAQMD	Y		Property Line Ground	None	Ν	N/A
	9-1-301			Level Limits:			
				\leq 0.5 ppm for 3 minutes			
				and ≤ 0.25 ppm for 60 min.			
				and ≤ 0.05 ppm for 24 hours			
				(applies to A-12 Flare only)			
SO_2	BAAQMD	Y		\leq 300 ppm (dry basis)	BAAQMD	P/A	Annual
	Regulation			(applies to A-12 Flare only)	Condition		Source Test
	9-1-302				#1437,		
					Part 12		
H_2S	BAAQMD	Ν		Property Line Ground	None	Ν	N/A
	9-2-301			Level Limits:			
				<u><</u> 0.06 ppm,			
				averaged over 3 minutes			
				and ≤ 0.03 ppm,			
				averaged over 60 minutes			

Table VII – A

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
NOx	BAAQMD	Y		\leq 0.05 lb/MMBTU	BAAQMD	P/A	Annual
	Condition			(calculated as NO ₂)	Condition		Source Test
	#1437,				#1437,		
	Part 10				Part 12		
CO	BAAQMD	Y		\leq 0.3 lb/MMBTU	BAAQMD	P/A	Annual
	Condition				Condition		Source Test
	#1437,				#1437,		
	Part 11				Part 12		
Amount of	BAAQMD	Y		\leq 2600 tons/day (except for	BAAQMD	P/D	Records
Waste	Condition			temporary situations	Condition		
Accepted	#1437,			approved by the LEA)	#1437,		
	Part 1a				Part 15a		
Amount of	BAAQMD	Y		<u><</u> 19,840,000 tons	BAAQMD	P/D	Records
Waste	Condition			(cumulative amount of	Condition		
Accepted	#1437,			decomposable materials)	#1437,		
	Part 1b				Part 15a		
Amount of	BAAQMD	Y		\leq 36,400,000 yd ³	BAAQMD	P/D	Records
Waste	Condition			(cumulative amount of all	Condition		
Accepted	#1437,			wastes)	#1437,		
	Part 1c				Part 15a		
Heat Input	BAAQMD	Y		<u><</u> 3,576 MM BTU per day	BAAQMD	P/D	Records
	Condition			and	Condition		
	#1437,			≤ 1,305,240 MM BTU per	#1437,		
	Part 8			year	Parts 8, 15h		
				(applies to A-12 Flare only)			
Landfill Gas	BAAQMD	N		< 5 gallons per minute	BAAQMD	P/D	Records
Condensate	Condition			and	Condition		
Injection in	#1437,			<u> < 1,500,000 gallons per </u>	#1437,		
Flare	Part 14			year	Part 15k		

Table VII – A

			Future		Monitoring	Monitoring	
Type of	Citation of	FE	Effective		Requirement	Frequency	Monitoring
Limit	Limit	Y/N	Date	Limit	Citation	(P/C/N)	Туре
Startup	40 CFR	Y		Minimize Emissions by	40 CFR	P/E	Records (all
Shutdown or	63.6(e)			Implementing SSM Plan	63.1980(a-b)		occurrences,
Malfunction							duration of
Procedures							each,
							corrective
							actions)

VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally found in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits included in Section VII, Applicable Limits & Compliance Monitoring Requirements, of this permit.

Table VIII		
Test Methods		

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible
6-1-301 and		Emissions; or US EPA Method 9, Visual Determination of the
SIP 6-301		Opacity of Emissions from Stationary Sources
BAAQMD	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible
6-1-303.1 and		Emissions; or US EPA Method 9, Visual Determination of the
SIP 6-303		Opacity of Emissions from Stationary Sources
BAAQMD	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling
6-1-310 and		or US EPA Method 5, Determination of Particulate Matter
SIP 6-310		Emissions from Stationary Sources
BAAQMD	Organic Compound Emission	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic
8-2-301 and	Limitation for Miscellaneous	Carbon Sampling; or
SIP 8-2-301	Operations	EPA Reference Method 25 Determination of Total Gaseous
		Nonmethane Organic Emissions as Carbon, or
		EPA Reference Method 25A, Determination of Total Gaseous
		Organic Concentration Using a Flame Ionization Analyzer
BAAQMD	Collection and Control System	EPA Reference Method 21, Determination of Volatile Organic
8-34-301.2	Component Leak Limitations	Compound Leaks
BAAQMD	NMOC Limits for Flares	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic
8-34-301.3		Carbon Sampling and ST-14, Oxygen, Continuous Sampling; or
		EPA Reference Method 18, 25, 25A, or 25C
BAAQMD	Landfill Surface Leak Limit	EPA Reference Method 21, Determination of Volatile Organic
8-34-303		Compound Leaks
BAAQMD	Wellhead Gauge Pressure	APCO Approved Device
8-34-305.1		
BAAQMD	Temperature Limit for Gas at	APCO Approved Device
8-34-305.2	Wellheads	
BAAQMD	Nitrogen Concentration Limit in	EPA Reference Method 3C, Determination of Carbon Dioxide,
8-34-305.3	Gas at Wellheads	Methane, Nitrogen, and Oxygen from Stationary Sources
BAAQMD	Oxygen Concentration Limit in	EPA Reference Method 3C, Determination of Carbon Dioxide,
8-34-305.4	Gas at Wellheads	Methane, Nitrogen, and Oxygen from Stationary Sources

VIII. Test Methods

Table VIIITest Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Compliance Demonstration Test	EPA Reference Method 18, Measurement of Gaseous Organic
8-34-412		Compound Emissions by Gas Chromatography, Method 25,
		Determination of Total Gaseous Nonmethane Organic Emissions
		as Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method
		25C, Determination of Nonmethane Organic Compounds
		(NMOC) in MSW Landfill Gases
BAAQMD	Organic Content Limit for Small	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
8-40-116.2	Volume Exemption	8021B
BAAQMD	Limits on Uncontrolled Aeration	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
8-40-301	of Contaminated Soil	8021B; or EPA Reference Method 21
BAAQMD	Limitations on Ground Level	Manual of Procedures, Volume VI, Part 1, Ground Level
9-1-301	Concentrations (SO ₂)	Monitoring for Hydrogen Sulfide and Sulfur Dioxide
BAAQMD	General Emission Limitation	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide,
9-1-302	(SO ₂)	Continuous Sampling
BAAQMD	Limitations on Hydrogen Sulfide	Manual of Procedures, Volume VI, Part 1, Ground Level
9-2-301		Monitoring for Hydrogen Sulfide and Sulfur Dioxide
40 CFR 60.8	Performance Tests	EPA Reference Method 18, Measurement of Gaseous Organic
		Compound Emissions by Gas Chromatography, Method 25,
		Determination of Total Gaseous Nonmethane Organic Emissions
		as Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method
		25C, Determination of Nonmethane Organic Compounds
		(NMOC) in MSW Landfill Gases
BAAQMD	Acceptance Criteria for Soils	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
Condition	containing VOCs	8021B; or EPA Reference Method 21
#1437, Part 2	(VOC determination)	
BAAQMD	Low VOC Soils for Landfill	BAAQMD 8-40-601 and EPA Reference Methods 8015B and
Condition	Cover	8021B; and EPA Reference Method 21
#1437, Part 3		
BAAQMD	Heat Input Limits	APCO approved gas flow meter and APCO approved calculation
Condition		procedure described in BAAQMD Condition # 1437, Part 8
#1437, Part 8		
BAAQMD	Flare Combustion Temperature	APCO Approved Device
Condition	Limit	
#1437, Part 9		

VIII. Test Methods

Table VIII Test Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Flare NOx Limit	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen,
Condition		Continuous Sampling and ST-14, Oxygen, Continuous Sampling
#1437, Part 10		
BAAQMD	Flare CO Limit	Manual of Procedures, Volume IV, ST-6, Carbon Monoxide,
Condition		Continuous Sampling and ST-14, Oxygen, Continuous Sampling
#1437, Part 11		
BAAQMD	Compliance Demonstration Test	Manual of Procedures, Volume IV, ST-17, Stack Gas Velocity
Condition		and Volumetric Flow Rate; ST-23 Water Vapor; ST-14, Oxygen,
#1437, Part 12		Continuous Sampling; ST-13A, Oxides of Nitrogen, Continuous
		Sampling; ST-6, Carbon Monoxide, Continuous Sampling; and
		Manual of Procedures, Volume IV, ST-7, Organic Compounds or
		EPA Reference Methods 18, 25, 25A or 25C
BAAQMD	Characterization of landfill gas	EPA Reference Method 18, Measurement of Gaseous Organic
Condition		Compound Emissions by Gas Chromatography, Method 25,
#1437, Part 13		Determination of Total Gaseous Non-methane Organic Emissions
		as Carbon, Method 25A, Determination of Total Gaseous Organic
		Concentration Using a Flame Ionization Analyzer, or Method
		25C, Determination of Non-methane Organic Compounds
		(NMOC) in MSW Landfill Gases; and
		Manual of Procedures, Volume III, Method 44 Determination of
		Reduced Sulfur Gases and Sulfur Dioxide in Effluent Samples by
		Gas Chromatographic Methods
BAAQMD	Temperature Limit for Gas at	APCO Approved Device
Condition	Wellheads	
#1437,		
Parts 17a		
and 18a		
BAAQMD	Carbon Monoxide Concentration	APCO Approved Portable Analyzer
Condition	Limit for Gas at Wellheads	
#1437,		
Part 18b		
BAAQMD	Oxygen Concentration Limit for	EPA Reference Method 3C, Determination of Carbon Dioxide,
Condition	Gas at Wellheads	Methane, Nitrogen, and Oxygen from Stationary Sources
#1437,		
Part 19a		

VIII. Test Methods

Table VIIITest Methods

Applicable		
Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD	Pressure Limit at Wellhead for	APCO Approved Device
Condition	Components that are	
#1437,	Disconnected from Vacuum	
Part 19b		

IX. PERMIT SHIELD

A. SUBSUMED REQUIREMENTS

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a "hybrid" monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

 Table IX-A

 S-22 Kirby Canyon MSW Landfill – Waste and Cover Material Dumping

Subsumed			
Requirement		Streamlined	
Citation	Title or Description	Requirements	Title or Description
8-2-601	Determination of Compliance	8-40-604	Measurement of Organic Concentration
	(for organic compound		(to classify soil as "contaminated" or "not
	emissions as total carbon)		contaminated")

The Regulation 8, Rule 2 total carbon test procedure is subsumed by the Regulation 8, Rule 40 VOC test procedure for the active landfilling operation (S-22) because testing performed pursuant to Regulation 8-40-604 will rule out the need to test in accordance with Regulation 8-2-601.

Regulation 8, Rule 2 "Miscellaneous Operations" is only applicable to sources of precursor organic compounds that are not otherwise limited by Regulation 8 or Regulation 10 rules. In the case of the Kirby Canyon MSW Landfill, Regulation 8, Rule 2 would apply only to cover soil that contains some VOC, but is not defined as "contaminated soil" by Regulation 8-40-205. Soil which has an organic content exceeding 50 ppmw or that registers an organic concentration greater than 50 ppmv (expressed as methane, C1) is subject to Regulation 8, Rule 40.

Regulation 8-2-301 limits organic compound emissions (expressed as total carbon) from an operation to 15 pounds per day, if the emission from the operation has an organic compound concentration greater than 300 ppmv (expressed as total carbon,

IX. Permit Shield

dry basis). Since soil found not to be contaminated using the procedures of Regulation 8-40-604 will have a surface VOC concentration of less than 50 ppmv (expressed as methane, C1) it can reasonably be assumed that the concentration is also less than 300 ppmv (total carbon, dry basis) as determined by the procedures of Regulation 8-2-601. Since the operation complies with the 300 ppmv limit, it complies with Regulation 8-2-301.

In summary, measurements conducted under Regulation 8-40-604 that show surface VOC concentrations less than 50 ppmv (expressed as methane, C1) are conclusive to demonstrate compliance with Regulation 8-2-301.

X. REVISION HISTORY

Title V Permit Issuance (Application 2619):

Minor Revision (Applications 7300, 7835, 8255, and 9220):

- Updated gas collection well totals in the Landfill source description to reflect recent construction activities.
- Added existing Diesel IC Engines S-3 and S-4 to Title V permit.
- Added proposed Landfill Gas Fired IC Engine Generator Sets S-5, S-6, and S-7.
- Removed proposed Landfill Gas Fired IC Engine Generator Set S-2. (Application #3539 withdrawn by applicant)
- Added new Landfill Gas Flare A-11 and removed existing Flare A-10.
- Updated Generally Applicable Requirements (Table III).
- Updated tables and permit conditions to reflect the additions and removals of permitted and proposed equipment.
- Updated tables to remove future effective dates that have since passed.
- Added Section X "Revision History" and renumbered the "Glossary" and "Applicable State Implementation Plan" as Sections XI and XII.

Minor Revision (Application #11729):

- Update the gas collection well total in Table II A, S-1 to reflect recent construction under Authority to Construct #11729.
- Modify Sections III and IV state that SIP standards are now found on EPA's website and are not included as part of the permit. The updated website address has been added.
- Modify Permit Condition #1437, part 6 to account for changes to the landfill gas collection system.
- Add paragraph to standard text of Section VII to clarify that Sections I-VI take precedence if there is a conflict with the VII Tables.
- Remove Section XII "Applicable State Implementation Plan". The address for EPA's website is now found in Sections III and IV.

Minor Revision (Application #14076):

- Add new Portable Compressor Diesel Engine to Title V permit.
- Add facility-wide NOx emissions limit via new Permit Condition #23023.

July 13, 2006

January 28, 2007

January 12, 2005

July 10, 2003

X. Revision History

Minor Revision (Application 15618):

- Change Responsible Official and Plant Contact.
- Delete flare A-11 and replace with new flare A-12 and A-12 requirements.
- Delete sources S-5, S-6, S-7, which were not installed.
- Delete sources S-3, S-4, which were removed from service.
- Add alternate well temperature limits.
- Update well count and add proposed gas collection system modifications.

Permit Renewal (Application 17168):

- Change Business Name, Address, Responsible Official, and Facility Contact.
- Add and revise introduction in Section I, III, IV, VII, and VIII to conform to current standard text.
- Incorporate source number changes into this permit that were implemented pursuant to the BAAQMD annual permit renewal process. The active landfill, Source S-1, was split into three sources (S-1, S-22, and S-23) that represent different processes and activities that occur at active landfills. The new source numbers were added to Tables II-A, IV-A, VII-A, IX-A and Condition # 1437.
- Identify S-8 as exempt from major facility review in Table II-C and remove all other references to S-8 from Sections IV-VIII of the permit.
- Correct and update regulatory references and amendment dates throughout the permit.
- Add several missing BAAQMD and federal regulations to Table III, and add several new California regulations to Table III.
- Update permit conditions to incorporate changes from NSR applications, including landfill collection system well count (NSR Applications #21786 and 23446), alternate operating conditions for specific wells (NSR Application #19359), and minimum flare temperature. Add the related new applicable requirements to Tables IV-A and VII-A (BAAQMD Regulations 8-34-404 and 8-34-501.5 and Condition #1437, Parts 18-19. Correct citation of condition bases. Update references to these changes throughout the permit.
- Add symbols to Table VII-A to clarify limits.
- For Table VIII, add missing test methods and remove obsolete or unnecessary test methods.
- Clarify the applicability of the permit shield in Section IX.
- Add this permit renewal to the Section X Revision History.
- Add terms to the Section XI Glossary.

Renewal Date: March 2, 2012

March 2, 2012

XI. GLOSSARY

ACT

Federal Clean Air Act

APCO

Air Pollution Control Officer: Head of Bay Area Air Quality Management District

ARB

Air Resources Board

ATCM Airborne Toxic Control Measure

BAAQMD Bay Area Air Quality Management District

BACT Best Available Control Technology

Basis

The underlying authority that allows the District to impose requirements.

CAA

The federal Clean Air Act

CAAQS

California Ambient Air Quality Standards

CAPCOA

California Air Pollution Control Officers Association

CARB

California Air Resources Board (same as ARB)

CCR

The California Code of Regulations

CEM

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NOx concentration) in an exhaust stream.

CEQA

California Environmental Quality Act

CFR

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

CH4 or CH₄

Methane

CI Compression Ignition

CO Carbon Monoxide

CO₂ Carbon Dioxide

CT Combustion Zone Temperature

Cumulative Increase

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

District

The Bay Area Air Quality Management District

E6, E9, E12

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53E6 equals $(4.53) \times (106) = (4.53) \times (10x10x10x10x10x10) = 4,530,000$. Scientific notation is used to express large or small numbers without writing out long strings of zeros.

EG

Emission Guidelines

EPA

The federal Environmental Protection Agency.

Excluded

Not subject to any District regulations.

Federally Enforceable, FE

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPs), Part 63 (MACT), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

FP

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

FR

Federal Register

Grains 1/7000 of a pound

H2S or H₂S

Hydrogen Sulfide

HAP

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by 40 CFR Part 63.

H&SC

Health and Safety Code

Hg

Mercury

HHV

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

LEA

Local Enforcement Agency

LFG

Landfill gas

Major Facility

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

MAX or Max.

Maximum

MFR

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

MIN or Min.

Minimum

MOP

The District's Manual of Procedures.

MSW

Municipal solid waste

MW

Molecular weight

N2 or N₂ Nitrogen

NA Not Applicable

NAAQS

National Ambient Air Quality Standards

NESHAPS

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63.

NMHC

Non-methane Hydrocarbons (Same as NMOC)

NMOC

Non-methane Organic Compounds (Same as NMHC)

NO2

Nitrogen Dioxide

NOx or NO_x

Oxides of nitrogen.

NSPS

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

NSR

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of pollutants for which criteria have been established in accordance with Section 108 of the Federal Clean Air Act. Mandated by Title I of the Federal Clean Air Act and implemented by 40 CFR Parts 51 and 52 and District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

O2 or O₂

Oxygen

Offset Requirement

A New Source Review requirement to provide federally enforceable emission offsets for the emissions from a new or modified source. Applies to emissions of POC, NOx, PM10, and SO2.

Phase II Acid Rain Facility

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

POC

Precursor Organic Compounds

PM

Particulate Matter

PM10 or PM₁₀

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

PSD

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

RMP

Risk Management Plan

SIP

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

SO2 or SO₂

Sulfur dioxide

SSM

Startup, Shutdown, or Malfunction

SSM Plan

A plan, which states the procedures that will be followed during a startup, shutdown, or malfunction, that is prepared in accordance with the general NESHAP provisions (40 CFR Part 63, Subpart A) and maintained on site at the facility.

TAC

Toxic Air Contaminant

ТВАСТ

Best Available Control Technology for Toxics

THC

Total Hydrocarbons (NMHC + Methane)

Title V

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit program for major and certain other facilities.

TOC

Total Organic Compounds (NMOC + Methane, Same as THC)

ТРН

Total Petroleum Hydrocarbons

TRMP

Toxic Risk Management Policy

TRS

Total Reduced Sulfur

TSP

Total Suspended Particulate

TVP

True Vapor Pressure

VOC

Volatile Organic Compounds

Symbols:

<	=	less than
>	=	greater than
<u><</u>	=	less than or equal to
\geq	=	greater than or equal to

Units of Measure:

atm	=	atmospheres
bhp	=	brake-horsepower
btu	=	British Thermal Unit
BTU	=	British Thermal Unit
°C	=	degrees Centigrade
cfm	=	cubic feet per minute
dscf	=	dry standard cubic feet
°F	=	degrees Fahrenheit
ft ³	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
gr	=	grains
hp	=	horsepower

-			
	hr	=	hour
	in	=	inches
	kW	=	kilowatt
	lb	=	pound
	lbmol	=	pound-mole (eq. to molecular weight of compound x lb)
	m^2	=	square meter
	m^3	=	cubic meters
	min	=	minute
	mm	=	million
	MM	=	million
	MM BTU	=	million BTU
	MMcf	=	million cubic feet
	Mg	=	mega grams
	MW	=	megawatts
	ppb	=	parts per billion
	ppbv	=	parts per billion, by volume
	ppm	=	parts per million
	ppmv	=	parts per million, by volume
	ppmw	=	parts per million, by weight
	psia	=	pounds per square inch, absolute
	psig	=	pounds per square inch, gauge
	scf	=	standard cubic feet
	scfm	=	standard cubic feet per minute
	sdcf	=	standard dry cubic feet
	sdcfm	=	standard dry cubic feet per minute
	yd	=	yard
	yd ³	=	cubic yards
	yr	=	year