

## TITLE V PERMIT ENGINEERING EVALUATION

Reviewed by: \_\_\_\_\_  
Title: \_\_\_\_\_ EKAPCD  
Date: \_\_\_\_\_

Applicant: **Ridgecrest Recycling and Sanitary  
Landfill**

Mailing Address: 2700 "M" Street, Suite 500  
Bakersfield, California 93301

Contact Name: Eric Greenwood, Engineering Manager  
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Fax Number: 1-661 862-8905

Application No.: **0027-V-2013**

Project #: 131101

Location: 3301 Bowman Road, Ridgecrest  
**UTM Coordinates:** Zone 11

QS/T/R: W12/T27S/R39E  
433.099 km East 3940.639 km North

Project Title: Title V Permit

Evaluation By: Cherita Young

|                                           |                        |                     |
|-------------------------------------------|------------------------|---------------------|
| <u>App. Rec.:</u>                         | 11/01/2013             |                     |
| <u>60-Days:</u>                           | 12/31/2013             |                     |
| <u>Reg. Info. (Deem Incomplete):</u>      | 01/14/2014             |                     |
| <u>Deemed Complete:</u>                   | 05/16/2014             |                     |
| <u>Facility 45-Day Review:</u>            | Start: 11/05/2014      | End: 12/22/2014     |
| <u>EPA 45-Day Review:</u>                 | Start: 11/05/2014      | End: 12/22/2014     |
| <u>30 Day Public Notice:</u>              | Start: est. 11/05/2014 | End: est 12/05/2014 |
| <u>Current Title V Permit Expiration:</u> | Not Applicable         |                     |

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**I. PROJECT DESCRIPTION:**

Ridgecrest Recycling and Sanitary Landfill (RRSL) has increased their design capacity to 8.03 million cubic meters. In accordance with 40 CFR Part 60, subpart WWW, a landfill with design capacity greater than 2.5 million cubic meter is required to obtain a Title V permit (60.752(b)). Therefore, RRSL is required to obtain a Title V permit.

The following permits will be included in the Title V permit:

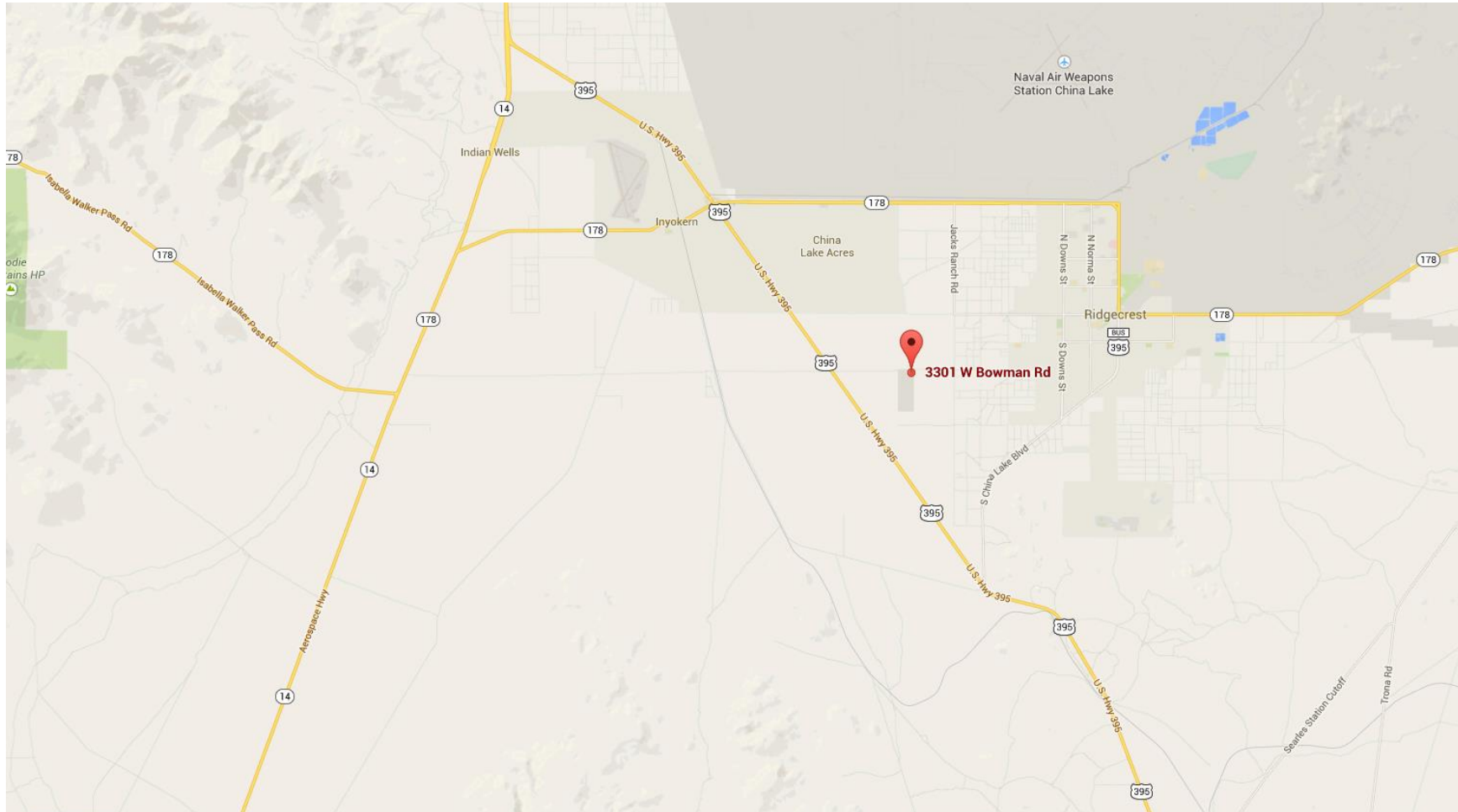
| <b>Permit Number</b> | <b>Equipment Description</b> | <b>Rating</b> |
|----------------------|------------------------------|---------------|
| 0027004              | Sanitary Landfill            | 1.0 Msc       |
| 0027005C             | Scrubber                     | 1.0 HP        |

In accordance with Rule 201.1 Title V permit is required to comply with District Administrative Procedures. Procedures include the following:

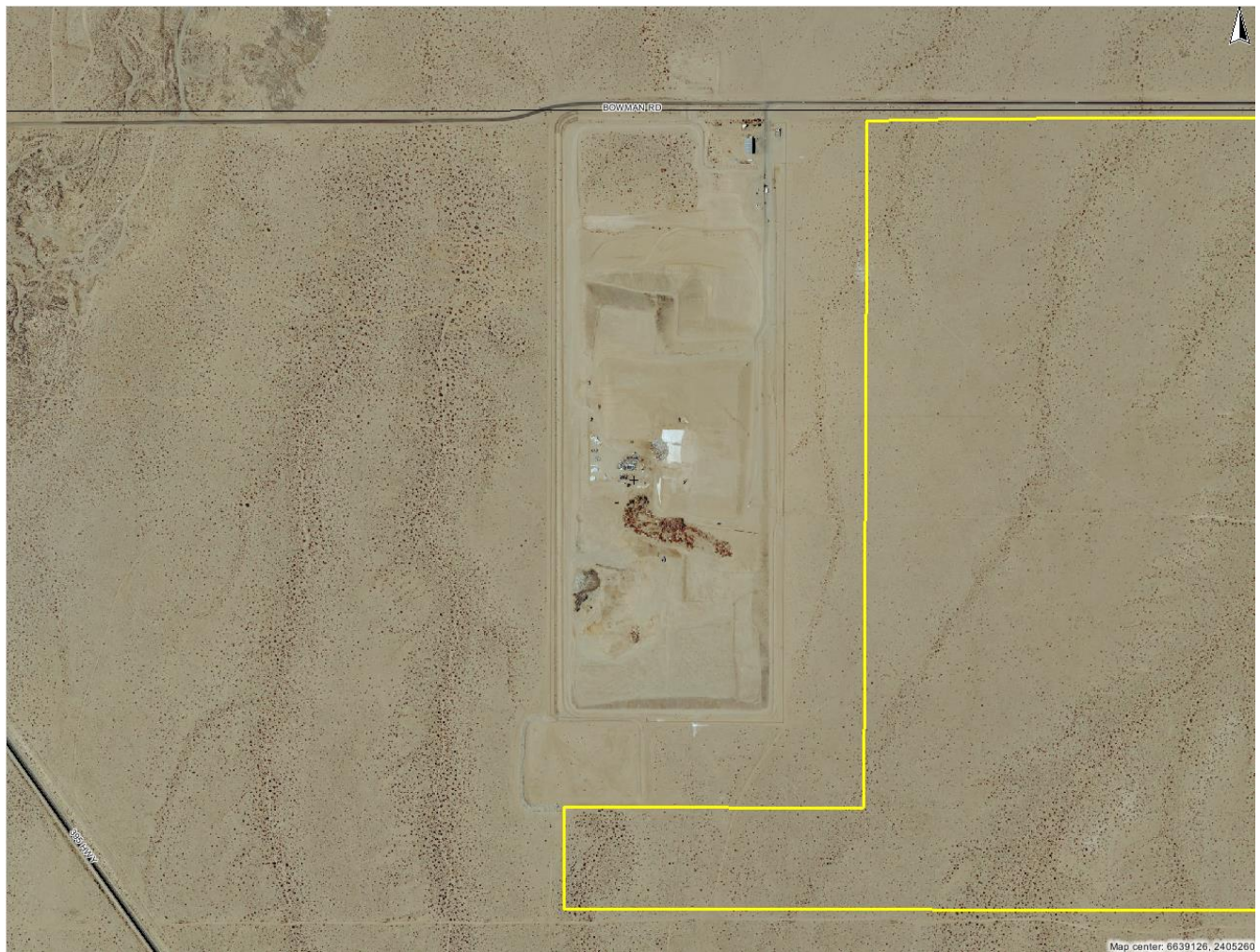
Completeness Review of Applications,  
Notification of Completeness Determination,  
Application Processing Timeframes,  
Notification and Opportunity for Review of Proposed Decision,  
Changes to Proposed Decision,  
Final Decision,  
District Action on Written Requests,  
Permit Reopening for Cause,  
Options for Operational Flexibility,  
Permit Streamlining,  
Requirements from the State Implementation Plan, and  
Permit Shield.

Several requirements may not be required for this permit. Overall, proposed permit will involve the addition of 2 permit units (emissions units listed above); the modification will require public notification and oversight agency review.

## II. FACILITY DESCRIPTION:

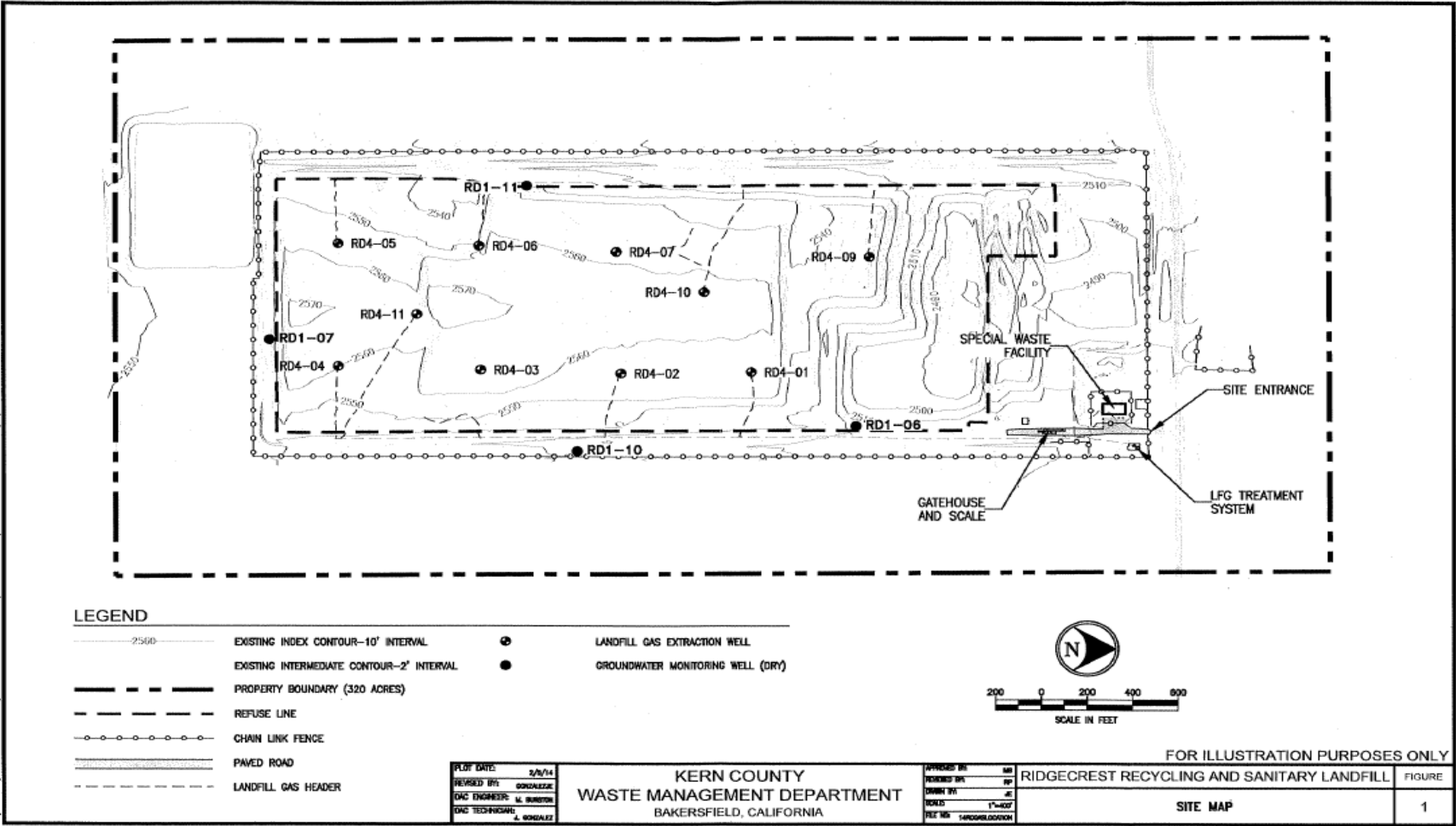


**Figure 1: Ridgecrest Recycling General Location**



**Figure 2: Ridgecrest Recycling General Location**

II. FACILITY DESCRIPTION (Continued):



## II. FACILITY DESCRIPTION (Continued):

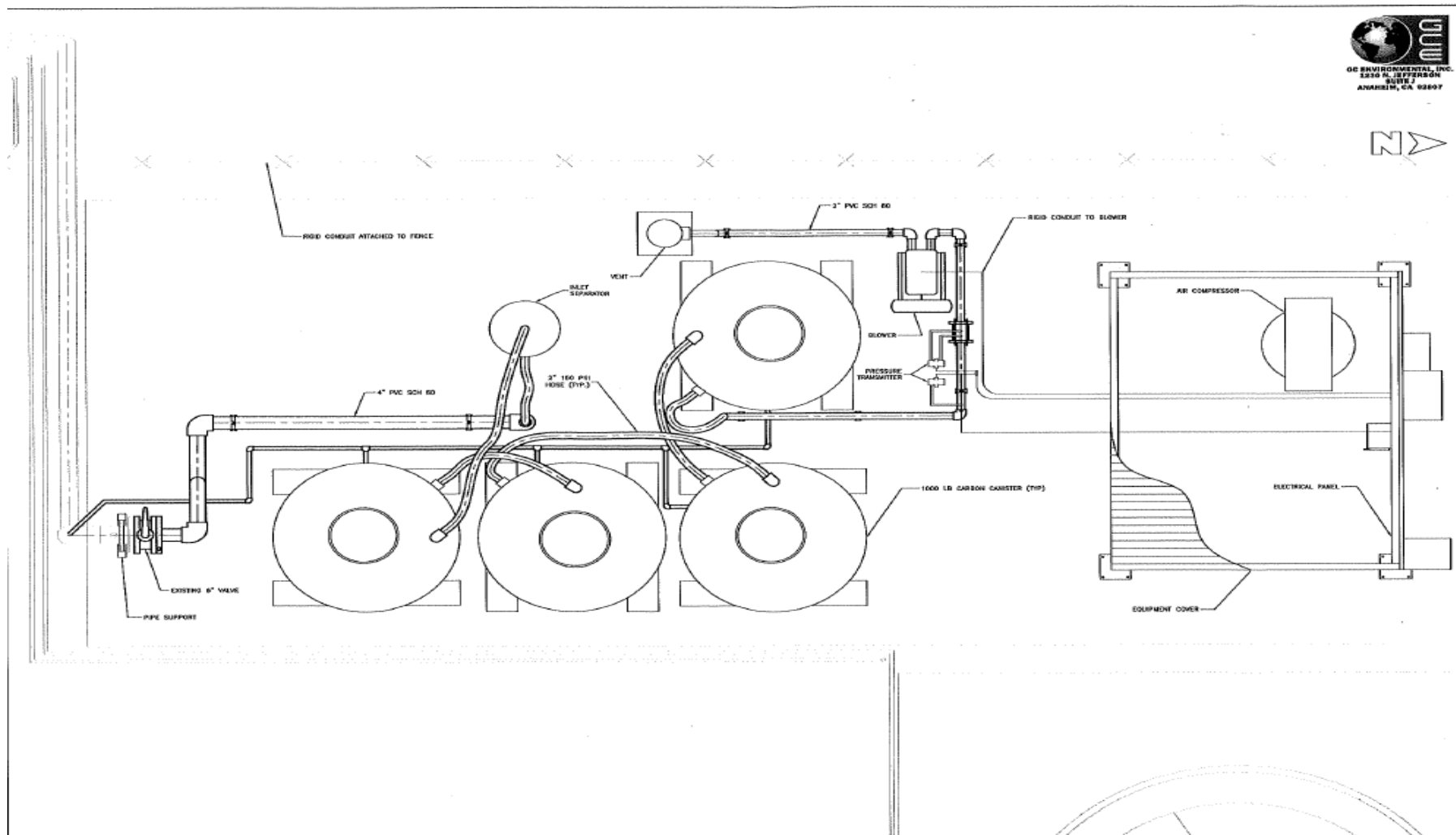


Figure 4: Carbon Treatment Equipment Layout

**II. FACILITY DESCRIPTION (Continued):**

The Ridgecrest Recycling and Sanitary Landfill (Ridgecrest RSLF) is a public landfill owned by the County of Kern and operated by the Kern County Waste Management Department, located approximately two miles west of the City of Ridgecrest at 3301 Bowman Road; also being portions of sections 1, 2, 11 and 12 of Township 27 South, Range 39 East, MDB&M. Upon arrival, customers are required to stop at the facility gatehouse to complete a transaction that includes queries for load composition and waste origin. The Gatehouse Attendant completes the transaction by administering fees, if applicable, and directing the customer to proper unloading areas. If applicable, customer vehicles are weighed to determine appropriate application of fees and to record weights for surveys. If customer loads are not weighed, a volume-to-weight method is used to determine load submittal or a standard load weight is administered.

Under direction of site staff, customers deposit diverted materials into stockpiles and proceed to the working face. Once vehicles have deposited their loads at the working face, the site operator spreads and compacts the waste.

At the end of the operating day, the site operator compacts and smoothes the working face and applies daily cover. Daily cover consists of either six inches of clean soil or an approved alternative daily cover, such as a geosynthetic tarp or shredded green waste.

**III. EQUIPMENT LISTING:**

| <u>Emission Unit</u> | <u>Description of Source</u> |
|----------------------|------------------------------|
| 004                  | Sanitary Landfill            |
| 005C                 | Scrubber                     |

**IV. APPLICABLE FEDERAL REQUIREMENTS:**

| <u>EKAPCD Rule No.</u> | <u>Rule Title and Description Conditions</u>                                                                                                                                                                                            |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule 107               | <b><u>Inspections</u></b><br>Inspections shall be made by the enforcement agency for the purpose of obtaining information necessary to determine whether air pollution sources are in compliance with applicable rules and regulations. |
| Rule 108               | <b><u>Stack Monitoring</u></b><br>Upon the request by the Control Officer, the owner of a source operation shall provide, install, operate and maintain continuous monitoring equipment.                                                |

| <b><u>EKAPCD Rule No.</u></b> | <b><u>Rule Title and Description Conditions</u></b>                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule 108.1                    | <b><u>Source Sampling</u></b><br>Upon the request by the Control Officer, the owner of any source operation that emits or may emit air contaminants, for which emission limits have been established, shall provide the necessary and proper facilities for source sampling. Additionally, upon the request by the Control Officer, the owner of such source operation shall collect source sample.                      |
| Rule 108.2                    | <b><u>Emissions Statement Requirements</u></b><br>Upon request of the Control Officer and as directed by him, an owner or operator of any source operation emitting or with the potential to emit oxides of nitrogen or reactive organic gases shall provide the district with a written statement.                                                                                                                      |
| Rule 111                      | <b><u>Equipment Breakdown</u></b><br>A breakdown which persists only until the end of the production run or 24-hours, whichever is sooner (except for continuous monitoring equipment, for which the period shall be 96-hours), is a violation; however, no enforcement action will be taken if the owner/operator demonstrates to the Control Officer a breakdown condition exists and the proper requirements are met. |
| Rule 114                      | <b><u>Severability</u></b><br>If any part of an issued permit is adjudged by a court of competent jurisdiction to be unconstitutional or invalid, such judgment shall not affect or invalidate the remainder of this permit.                                                                                                                                                                                             |

Rule 201.1

**Permits to Operate for Sources Subject to Title V of the Federal Clean Air Act Amendments of 1990**

Propose of this Rule is to implement requirements of Title V of the Federal *Clean Air Act* amendments of 1990 (CAA) for permits to operate.

Facilities subject to this rule include:

- A. 100 tons per year (tpy) of any regulated air pollutant;
- B. 50 tpy of volatile organic compounds or oxides of nitrogen (if district is classified as serious non-attainment for ozone);
- C. 10 tpy of one Hazardous Air Pollutant (HAP) or 25 tpy of two or more HAPs; or
- D. Any lesser quantity threshold promulgated by the U.S. EPA.

Facilities subject to this rule shall obtain permits to operate issued pursuant to this Rule, and each such permit to operate shall contain conditions and requirements adequate to ensure compliance all applicable, federal (Clean Air Act), state (California Health and safety Code and California Air Resources Board), and local (Eastern Kern County Air Pollution Control District) requirements.

Rule 209

**Conditional Approval**

The Control Officer shall issue an Authority to Construct or a Permit to Operate, subject to conditions to insure compliance of the operation of any piece of equipment within the standards of Rule 208 and 208.1.

Rule 210.1

**Standards for Authority to Construct**

Rule Purposes: The purposes of this rule are to:

- A. Provide for the pre-construction review of new and modified stationary sources of affected pollutants to insure emissions will not interfere with the attainment of ambient air quality standards;
- B. Insure appropriate new and modified sources of affected pollutants are constructed with Best Available Control Technology; and
- C. Provide for no significant net increase in emissions from new and modified stationary sources for all non-attainment pollutants and their precursors.

Rule 301

**Permit Fees**

Every applicant for an Authority to Construct or a Permit to Operate shall pay a filing fee. For issuance of an Authority to Construct, or an initial Permit to Operate, the applicant shall pay fees as prescribed in Rule 301. For issuance of an Authority to Construct, an application processing fees shall also be paid as prescribed in Rule 303. The applicant shall receive credit for filing fees paid.

Annually on the anniversary of issuance of a Permit to Operate, the permittee shall pay a renewal fee as prescribed in Rule 301. Fees collected pursuant to Rule 201.1, Section VII.A. (see below) shall supplement applicable Rules 301 and 301.3 fee requirements.

Rule 401

**Visible Emissions Limits**

A person shall not discharge into the atmosphere emissions as dark or darker than Ringelmann 1 or 20% opacity for more than 3 minutes in any one hour.

Rule 404.1

**Particulate Matter Concentration - Desert Basin**

A person shall not discharge from any single source operation, the construction or modification of which commenced after the adoption of this rule, particulate matter in excess of 0.1 grains per cubic foot of gas at standard conditions.

Rule 405

**Particulate Matter - Emission Rate**

A person shall not discharge into the atmosphere from any source operation, particulate matter in excess of the limits set forth in the allowable particle emissions based on process weight rate table included in Rule 405.

Rule 407

**Sulfur Compounds**

Sulfur compound emissions at point of discharge shall not exceed 0.2% by volume calculated as sulfur dioxide.

| <b><u>EKAPCD Rule No.</u></b> | <b><u>Rule Title and Description Conditions</u></b>                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rule 419                      | <p><b><u>Nuisance</u></b><br/>A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property.</p>   |
| Rule 422                      | <p><b><u>Federal New Source Performance Standards (NSPS)</u></b><br/>This Rule incorporated provisions of Title 40, Part 60 of the Code of Federal Regulations, in effect November 4, 1999. All new and modified sources shall comply with standards, criteria and requirements set forth therein. All applicable requirements of 40 CFR Part 60, Subparts A, Cc, and WWW apply to this facility.</p>                                                 |
| 40 CFR Part 60<br>Subpart A   | <p><b><u>General Provisions of New Source Performance Standards</u></b><br/>Federal rule contains applicability and definitions used as reference for following subparts.</p>                                                                                                                                                                                                                                                                         |
| 40 CFR Part 60<br>Subpart Cc  | <p><b><u>Emissions Guidelines and Compliance Times for Municipal Solid Waste Landfills</u></b><br/>Requires landfill operator to reduce emissions through use of collection and control system designed and operated to reduce VOC emissions by 98% weight percent.</p>                                                                                                                                                                               |
| 40 CFR Part 60<br>Subpart WWW | <p><b><u>Standards of performance for Municipal Solid Waste Landfills</u></b><br/>Facilities with Non-Methane Organic Compound (NMOC) emissions of 50 megagrams (55.12 tons) per year or more are required to install collection and control system that meet requirements of 40 CFR Part 60, Subpart WWW. Additionally, control system must reduce NMOC by 98% or emissions less than 20 ppmv.</p>                                                   |
| Rule 423                      | <p><b><u>National Emission Standards for Hazardous Air Pollutants and Source Categories (NESHAPS)</u></b><br/>This Rule incorporated provisions of Title 40, Chapter 1, Parts 61 and 63, Code of Federal Regulations, in effect September 2, 1999. All sources of hazardous air pollution shall comply with applicable standards, criteria and requirements set forth herein. All applicable requirements of 40 CFR Part 63, Subparts A and AAAA.</p> |

40 CFR Part 63  
Subpart A

**General Provisions of National Emission Standards for Hazardous Air Pollutants**

Federal rule contains applicability and definitions used as reference for following subparts.

40 CFR Part 63  
Subpart AAAA

**NESHAPS: Municipal Solid Waste Landfills**

This subpart requires all landfills described in §63.1935 to meet the requirements of 40 CFR part 60, subpart Cc or WWW and requires timely control of bioreactors. This subpart also requires such landfills to meet the startup, shutdown, and malfunction (SSM) requirements of the general provisions of this part and provides that compliance with the operating conditions shall be demonstrated by parameter monitoring results that are within the specified ranges. It also includes additional reporting requirements.

40 CFR 70.5d

**State Operating Permit Program**

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

**V. NEW AND MODIFIED EQUIPMENT UNITS:**

Ridgecrest Recycling and Sanitary Landfill will include two emissions unit, which include a landfill gas collection control system and scrubber.

**New Units:**

| <b><u>Emissions Unit</u></b> | <b><u>New Unit Description</u></b> |
|------------------------------|------------------------------------|
| 004                          | Landfill                           |
| 005C                         | Scrubber                           |

**VI. COMPLIANCE:**

The Ridgecrest Recycling and Sanitary Landfill has not had any Variances or Notice of Violations.

**VII. POTENTIAL EMISSIONS:**

Tables 1, 2, and 3 below list RRSL's plant-wide stationary source emissions.

**Table 1**

| <b>Criteria Pollutant Emissions (tons per year)</b> |                  |                 |                 |                 |      |    |
|-----------------------------------------------------|------------------|-----------------|-----------------|-----------------|------|----|
| Pollutant:                                          | PM <sub>10</sub> | SO <sub>4</sub> | SO <sub>2</sub> | NO <sub>x</sub> | VOC  | CO |
| Potential Emissions:                                | --               | --              | --              | --              | 2.99 | -- |

**Table 2**

| <b>Other Regulated Air Pollutant Emissions (tons per year)</b> |     |         |         |        |              |              |
|----------------------------------------------------------------|-----|---------|---------|--------|--------------|--------------|
| Pollutant:                                                     | HCl | Benzene | Toluene | Xylene | Acetaldehyde | Formaldehyde |
| Potential Emissions:                                           | --  | --      | --      | --     | --           | --           |

**Table 3**

| <b>Greenhouse Gas Emissions (tons per year)</b> |                 |                 |                  |      |      |                 |       |
|-------------------------------------------------|-----------------|-----------------|------------------|------|------|-----------------|-------|
| Pollutant:                                      | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | HFCs | PFCs | SF <sub>6</sub> | Total |
| Emissions (tpy):                                | --              | 127             | --               | --   | --   | --              |       |
| *GWP:                                           | 1               | 21              | 310              | --   | --   | 23,900          |       |
| CO <sub>2</sub> e (tpy):                        | --              | 2,667           | --               | --   | --   | --              | 2,667 |

Reported for year 2012

- \* Global Warming Potential (GWP): The capacity to heat the atmosphere, calculated as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram (kg) of a substance relative to that of 1 kg of CO<sub>2</sub>. GWP shall be calculated according to the factors for a 100-year time horizon, as stated in 40 CFR Part 98 Subpart A Table A-1 (Global Warming Potentials).

**Greenhouse Gases:**

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Carbon dioxide (CO <sub>2</sub> ) | Hydrofluorocarbons (HFCs),              |
| Nitrous oxide (N <sub>2</sub> O)  | Perfluorocarbons (PFCs), and            |
| Methane (CH <sub>4</sub> )        | Sulfur Hexafluoride (SF <sub>6</sub> ). |

**VIII. CEQA DETERMINATION:**

**EASTERN KERN APCD PERMITS -- CEQA COMPLIANCE CHECKLIST**

**Completeness Review Form**

This form shall be completed by the permit application engineer for all Authority to Construct permit applications. The completed form shall be included in the Engineering Evaluation File.

**A. General Information**

Application Number: 0027-V-2013

Applicant Name: Ridgecrest Recycling and Sanitary Landfill

Project Description: Emergency 300 kW Generator Driven by 449 bhp Diesel Fuel Engine

**B. Determination of Completeness**

Check the corresponding action to be taken to determine the application is complete for CEQA purposes and fill in blanks where appropriate.

1. Ministerial Exemption

☐ This permit application is not subject to CEQA because the evaluation is a ministerial action conducted using fixed standards and objective measurements. No discretion or judgment is required in granting of this permit.

2. Project Was Exempted by or is Subject to Negative Declaration or EIR by Another Agency

☒ This permit application was exempted by or is subject to a ND or EIR prepared (or under preparation) by another agency. The District has received the necessary information indicating another agency is acting as the Lead Agency. Therefore, the application shall be deemed complete for CEQA purposes.

3. All Other Permits

☐ The District has received from the applicant, a completed, signed and dated environmental questionnaire and any other information necessary for preparing a negative declaration or EIR, if required (see Form Instructions B.3.). Therefore, the application shall be deemed complete for CEQA purposes.

**C. Final Action**

Check the appropriate action taken by the APCO prior to issuing the final permit.

1. Ministerial Action

This permit application is exempt from CEQA because the permit evaluation is a ministerial action. CEQA does not apply to ministerial actions. No further action is necessary.

2. Project Was Exempted by or is Subject to Negative Declaration or EIR by Another Agency

X This permit application was exempted by or was subject to an EIR or Negative Declaration by another agency. The final action on the District permit was taken only after review and consideration of information in the certified CEQA document by the Control Officer, or authorized District representative of the Control Officer.

3. Exemption

     This permit application is exempt from CEQA because the project, as a whole, is listed in the District List of Exempt Projects AND because the project has no potential for causing a significant adverse environmental impact. A General Exemption under CEQA Section 15061 (b)(3) applies if the project is not listed in the District Exemption List AND it can be seen with certainty the project will not have a significant adverse effect on the environment. In making this determination,

- a. a review of information submitted by the applicant has been conducted indicating there is no potential for a significant adverse environmental impact on any environmental media from the project;
- b. emissions offsets were not required by EKAPCD Rule 210.1, Subsection III.B.;
- c. recognized Best Available Control Technology (BACT) was proposed; and
- d. no unusual circumstances such as location, or cumulative impacts from successive projects of the same type in the same place over time, were determined to result in significant adverse environmental impacts.

4. Permit is Not Exempt from CEQA

     This permit was found not to be exempt from CEQA and no other agency will be conducting a CEQA review for the project. The District has prepared and adopted a Negative Declaration/Addendum or certified an EIR for the project. The final action by the District was taken only after information contained in the final EIR or ND was considered and any significant adverse environmental effects were mitigated to the maximum extent feasible.

| Impact                                                                                                                                                                                                                   | Level of Significance Before Mitigation | Mitigation Measure                                                                                                                                                                                                                                                                                                                                                                                                         | Level of Significance After Mitigation                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| <b>Air Quality and Odors (4.3)</b>                                                                                                                                                                                       |                                         |                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                        |
| <b>4.3-1:</b> Construction-Related Activities Would Result in an Increase of CO, NO <sub>x</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>x</sub> , and ROG Emissions.                                           | Less than significant                   | No mitigation is required.                                                                                                                                                                                                                                                                                                                                                                                                 | Less than significant                                                  |
| <b>4.3-2:</b> Operations-Related Activities Would Result in an Increase of CO, NO <sub>x</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>x</sub> , and ROG Emissions.                                             | Potentially significant                 | <b><u>Mitigation Measure 4.3-1.</u></b> The Project will comply with Rule 402 of the Eastern Kern County Air Pollution Control District, including wetting of unpaved roads on site an average of 3 times per day, and limiting the speed limit to less than 15 mph on site. For the purpose of this measure, an unpaved road subject to mitigation is defined as having more than 25 motor vehicle traffic trips per day. | Significant and Unavoidable for PM <sub>10</sub> due to fugitive dust. |
| <b>4.3-3:</b> Operations-Related Activities and Construction Occurring in the Same Year Would Result in an Increase of CO, NO <sub>x</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>x</sub> , and ROG Emissions. | Potentially significant                 | Implement MM 4.3-1.                                                                                                                                                                                                                                                                                                                                                                                                        | Significant and Unavoidable during the years 2024 and 2035.            |
| <b>4.3-4:</b> Increase in Local Ambient Concentrations of CO, NO <sub>x</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , and SO <sub>x</sub> .                                                                             | Potentially significant                 | Implement MM 4.3-1.                                                                                                                                                                                                                                                                                                                                                                                                        | Significant and Unavoidable for PM <sub>10</sub> .                     |
| <b>4.3-5:</b> Short and Long Term Increases in Local Ambient Concentrations of CO from Construction and Operations, Respectively.                                                                                        | Less than significant                   | No mitigation is required.                                                                                                                                                                                                                                                                                                                                                                                                 | Less than significant                                                  |

| <b>Impact</b>                                                                                              | <b>Level of Significance Before Mitigation</b> | <b>Mitigation Measure</b>  | <b>Level of Significance After Mitigation</b> |
|------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------|-----------------------------------------------|
| <b>4.3-6:</b> Project would result in a direct and/or indirect increase of Toxic Air Contaminants (TACs).  | Less than significant                          | No mitigation is required. | Less than significant                         |
| <b>4.3-7:</b> Exposure of Nearby Sensitive Receptors to Odors.                                             | Less than significant                          | No mitigation is required. | Less than significant                         |
| <b>4.3-8:</b> Potential Impacts to Visibility in Class I Wilderness Areas.                                 | Less than significant                          | No mitigation is required. | Less than significant                         |
| <b>4.3-9:</b> Cumulative Emissions of Criteria Air Pollutants.                                             | Potentially significant                        | Implement MM 4.3-1.        | Significant and Unavoidable                   |
| <b>4.3-10:</b> Inclusion of Criteria Pollutant Emissions from the Project in the EKCAPCD air quality plan. | Less than significant                          | No mitigation is required. | Less than significant                         |
| <b>4.3-11:</b> Consistency with the Kern Council of Government's Regional Conformity Analysis.             | Less than significant                          | No mitigation is required. | Less than significant                         |

**IX. MONITORING AND RECORDKEEPING REQUIREMENTS:**

The Department currently conducts quarterly structure and perimeter gas monitoring at the Ridgecrest RSLF. The Waste Management Department performs the subsurface gas readings with a Landtec™ GEM-2000 infrared gas analyzer, or equivalent. Department staff calibrates the instrument each operating day with methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>), and oxygen (O<sub>2</sub>) gases. Staff logs the readings on a field sheet along with the monitoring point location, time climatic conditions, gas pressure, and instrument used for monitoring. Gatehouses and on-site structures are monitored quarterly with the GEM-2000 or equivalent. It is capable of detecting two toxic gases [carbon monoxide (CO) and hydrogen sulfide (H<sub>2</sub>S) (in ppm)] in addition to O<sub>2</sub> (percent by volume), and CH<sub>4</sub> (percent by volume). The Kern County Waste Management Department submits the readings to the Local Enforcement Agency, CalRecycle, and the Regional Water Quality Control Board quarterly. Landfill Gas Collection and Control System New Source Performance Standards (NSPS) as defined in Title 40 CFR Part 60, requires municipal solid waste (MSW) landfills with a design capacity equal to or greater than 2.5 million megagrams or 2.5 million cubic meters to calculate the non-methane organic compounds (NMOC) emission rate on an annual basis. If the NMOC emission rate is equal to or greater than 50 megagrams per year, a landfill gas collection and control system must be installed.

**A. Monitoring And Recordkeeping Requirements**

The permittee shall conduct routine inspections on all required control equipment. The following monitoring procedures shall be used.

1. Conduct daily visual observations of emission control equipment (Visual observations shall be conducted by employees pursuant to standard instructions and reporting procedures).
  - a. If visual observations detect emissions, conduct EPA Method 22 (opacity/visual emissions readings);
  - b. If visual emissions are confirmed by EPA Method 22, conduct EPA Method 9 (6 minute visual emissions readings) as soon as practicable; and
  - c. Record results of EPA Method 9 compliance monitoring.
  - d. Conduct semi-annual visible emissions survey EPA Method 22 on all control equipment. Record results for compliance monitoring;
2. Each owner or operator seeking to comply with §60.752(b)(2)(ii)(A) for an active gas collection system shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:
  - a. Measure the gauge pressure in the gas collection header on a monthly basis as provided in §60.755(a)(3); and
  - b. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in §60.755(a)(5); and
  - c. Monitor temperature of the landfill gas on a monthly basis as provided in §60.755(a)(5).
3. Each owner or operator seeking to demonstrate compliance with §60.752(b)(2)(iii) using a device other than an open flare or an enclosed combustor shall provide information satisfactory to the Administrator as provided in §60.752(b)(2)(i)(B) describing the operation of the control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The

Administrator shall review the information and either approve it, or request that additional information be submitted. The Administrator may specify additional appropriate monitoring procedures.

4. Each owner or operator seeking to install a collection system that does not meet the specifications in §60.759 or seeking to monitor alternative parameters to those required by §60.753 through §60.756 shall provide information satisfactory to the Administrator as provided in §60.752(b)(2)(i) (B) and (C) describing the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. The Administrator may specify additional appropriate monitoring procedures.
5. Each owner or operator seeking to demonstrate compliance with §60.755(c), shall monitor surface concentrations of methane according to the instrument specifications and procedures provided in §60.755(d). Any closed landfill that has no monitored exceedances of the operational standard in three consecutive quarterly monitoring periods may skip to annual monitoring. Any methane reading of 500 ppm or more above background detected during the annual monitoring returns the frequency for that landfill to quarterly monitoring.

#### **B. Additional Recordkeeping Requirements**

1. Recording of maintenance of all monitoring and support information associated with all permit streamlining requirements imposed in accordance with Rule 201.1, Subsection V.J., all District-only rules which apply in accordance with Rule 201.1, Subsection V.K.1., and all applicable federal requirement not submitted by such permit streamlining requirement(s) or District-only rules, including:
  - a. Date, place, and time of sampling;
  - b. Operating conditions at time of sampling;
  - c. Date, place, and method of analysis; and
  - d. Results of analysis;
2. Retention of records of all required monitoring data and support information for a period of at least five years from the date of sample collection, measurement, report, or application; and
3. Any other recordkeeping deemed necessary by the APCO to ensure compliance with all permit streamlining requirements imposed in accordance with Rule 201.1, Subsection V.J., all District-only rules which apply in accordance with Rule 201.1, Subsection V.K.1., and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules.

#### **C. Compliance Assurance Monitoring (CAM) Requirements**

In accordance with 40 CFR Part 64 Section 64.2,(b)(1)(i), scrubber is not an emissions unit subject to Section 112 (National Emission Standards for Hazardous Air Pollutants) of the Clean Air Act proposed after 1990. Therefore, a CAM plan is not required, and the following is added as reference.

| <b><u>Emissions Unit(s)</u></b> | <b><u>Control Equipment</u></b> | <b><u>Monitoring Method</u></b>                                           | <b><u>Monitoring Ranges</u></b> | <b><u>Monitoring Frequency</u></b> |
|---------------------------------|---------------------------------|---------------------------------------------------------------------------|---------------------------------|------------------------------------|
| 004                             | Landfill                        | EPA Methods 18, 25, or 25C in accordance with 40 CFR Part 60, Subpart WWW | < 50 Megagrams                  | Yearly                             |
| 005C                            | Scrubber                        | EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart AAAA       | Ringelmann 0 or 0% Opacity      | Monthly                            |

**X. REPORTING REQUIREMENTS:**

- A. Any non-conformance with permit requirements, including any attributable to emergency conditions (as defined in Rule 201.1) shall be promptly reported to the APCO and in accordance with Rule 111;
- B. Monitoring report shall be submitted at least every six months identifying any non-conformance with permit requirements, including any previously reported to the APCO;
- C. All reports of non-conformance with permit requirements shall include probable cause of non-conformance and any preventative or corrective action taken;
- D. Progress report shall be made on a compliance schedule at least semi-annually and including:
  - 1. date when compliance will be achieved,
  - 2. explanation of why compliance was not, or will not be achieved by the scheduled date, and
  - 3. log of any preventative or corrective action taken; and
- E. Each monitoring report shall be accompanied by a written statement from the responsible official certifying the truth, accuracy, and completeness of the report.

**XI. CONCLUSIONS:**

- A. **Rule 108** (Stack Monitoring) – Permit does not utilize combustion equipment subject to the CEMS requirements of this rule, therefore this rule does not apply.
- B. **Rule 108.1** (Source Sampling) – Permittee has installed proper facilities for source sampling. Additionally, upon issuance of each District permit, Permittee is notified

Control Officer may require collect source sample upon request. Permittee is in compliance with District source sampling requirements.

- C. **Rule 108.2** (Emissions Statement Requirements) – Permittee has complied with the notification requirements of the Emissions Statement Requirements.
- D. **Rule 111** (Equipment Breakdown) – Permittee has complied with the notification requirements of the Equipment Breakdown rule.
- E. **Rule 114** (Severability) – Severability requirements of Rule 114 have not been required for any permits issued to Ridgecrest Recycling. Ridgecrest Recycling is in compliance with Severability requirements.
- F. **Rule 201.1** (Title V Permitting) – Based on the subject application review Ridgecrest Recycling is subject to a Title V permit. Culmination of this review will determine if the Permittee is in compliance with Rule 201.1.
- G. **Rule 208.2** - Criteria for Finding of No Significant Environmental Impact [California Environmental Quality Act (CEQA)] (Amended 1/8/98) establishes criteria by which a project under review by EKAPCD can be found to have no potential for causing a significant environmental impact, and, thus, be granted a general rule exemption pursuant to Section 1501(b)(3) of the State CEQA Guidelines.
- H. **Rule 209** (Conditional Approval) – Permittee has complied with the requirements of District Rule 209.
- I. **Rule 210.1** (New and Modified Stationary Source Review) – District has reviewed each new and modified permit to insure appropriate new and modified sources of affected pollutants are constructed with Best Available Control Technology; insure emissions will not interfere with the attainment of ambient air quality standards; and will provide for no significant net increase in emissions from new and modified stationary sources for all non-attainment pollutants and their precursors. Permittee has complied with the requirements of Rule 210.1.
- J. **Rule 301** (Permit Fees) – Permittee has paid all fees associated with each of their permits to operate. Ridgecrest Recycling is in Compliance with Rule 301.
- K. **Rule 401** (Visible Emissions Limits) – District compliance staff has not noted any violations to Ridgecrest Recycling for violating District Rule 401. Ridgecrest Recycling has exhibited compliance with Rule 401.
- L. **Rule 404.1** (Particulate Matter Concentration) – All permits operated by Ridgecrest Recycling in the District are required to have no emissions that exceed a particulate matter concentration of 0.1-grain per standard cubic feet (gr/scf). District compliance staff has not noted any violations to Ridgecrest Recycling for violating District Rule 404.1. Ridgecrest Recycling has exhibited compliance with Rule 404.1.
- M. **Rule 407** (Sulfur Compounds) – Sulfur compound emissions are emitted from only the scrubber. Untreated sulfur compound emissions are to be less than 2000 ppmv

calculated at SO<sub>2</sub>. The inlet sulfur concentration calculated as H<sub>2</sub>S is less than 50 ppmv. It is impossible for sulfur compound emissions (measured as SO<sub>2</sub>) to be 2000 ppmv or greater. Ridgecrest Recycling is in compliance with Rule 407.

- N. **Rule 419** (Nuisance) – Based on the most recent Health Risk Assessment completed for the facility, emissions from the facility are not a significant health risk to the community at large. Additionally, because of the remote location of the facility, during the past decade, the facility has not received any complaints from the community. Ridgecrest Recycling has shown compliance with Rule 419.
- O. **Rule 422**- Standards of Performance for New Stationary Sources (Amended 11/10/99): 40 CFR Part 60, Subpart WWW, Standards of Performance for Municipal Solid Waste landfills Built on or After May 30, 1991  
Facility has previously performed necessary compliance testing to determine that the control requirement of the subpart are not necessary at the present time or into the foreseeable future. Compliance with Rule 422 is expected.
- P. **40 CFR Part 60, Subpart A** (General Provisions of NSPS) – Subpart is applicable to this facility. Compliance with subpart is expected.
- Q. **40 CFR Part 60, Subpart Cc** (Emission Guidelines and Compliance Time for Municipal Solid Waste Landfills) – Facility has demonstrated compliance with this subpart with submission of a Title V application. Continued monitoring and compliance is expected.
- R. **40 CFR Part 60, Subpart WWW** (Standards of Performance for Municipal Solid Waste Landfills) - Facility has previously performed necessary compliance testing to determine that the control requirement of the subpart are not necessary at the present time or into the foreseeable future. Facility shall recalculate NMOC emission rate annually. If NMOC emission rate is less than 50 megagrams, facility shall submit annual emission report. If emissions exceeds 50 megagrams per year, collection and control system shall be installed. Compliance with 40 CFR Part 60, subpart WWW is expected.
- S. **40 CFR Part 63, Subpart A** (General Provisions of NESHAPs) – Provides applicability and definitions utilized in other parts of 40 CFR Part 63. No specific requirements for the facility are this Subpart. Ridgecrest Recycling is in compliance with 40 CFR Part 63, Subpart A.
- T. **40 CFR Part 63, Subpart AAAA** (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills) – Subpart states that facility must comply with requirements outlined in 40 CFR Part 60, subpart WWW and 40 CFR part 60, subpart Cc. Facility has previously performed necessary compliance testing to determine that the control requirement of the subpart are not necessary at the present time or into the foreseeable future. Compliance with this subpart is expected.
- V. **40 CFR 70.5d** (State Operating Permit Program) – Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This

certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Overall facility has shown compliance with all regulations

## **XII. RECOMMENDATIONS:**

Issue Title V permit number 0027-V-2013 (for Kern County Waste Management) with the following conditions:

### **TABLE OF CONTENTS**

General Permit Conditions

List of Insignificant Air Pollutant Emitting Equipment

| <b><u>Emission Unit</u></b> | <b><u>Description of Source</u></b> |
|-----------------------------|-------------------------------------|
| 004                         | Sanitary Landfill                   |
| 005C                        | Scrubber                            |

Appendix C (Compliance Assurance Monitoring)

Appendix D (Greenhouse Gas Facility Wide Reporting)

### **General Permit Conditions**

In accordance with California Health and Safety Code, Sections 39002 and 42301.10 through 42301.12 and all applicable Eastern Kern Air Pollution Control District (District) Rules and Regulations, the conditions which are listed below are hereby contained in and made a part of this permit:

|    | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Reg/Rule</b>    |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 1. | <b><u>Inspections</u></b><br>Inspections shall be made by the enforcement agency for the purpose of obtaining information necessary to determine whether air pollution sources are in compliance with applicable rules and regulations, including authority to require record keeping and to make inspections and conduct tests of air pollution sources.                                                                                                                                                                                                                                                                        | Reg. I, Rule 107   |
| 2. | <b><u>Stack Monitoring</u></b><br>Upon the request of and as directed by the Control Officer, the owner shall provide, install, and operate continuous monitoring equipment on such operations as directed. The owner shall maintain, calibrate, and repair the equipment and shall keep the equipment operating at design capabilities.                                                                                                                                                                                                                                                                                         | Reg. I, Rule 108   |
| 3. | <b><u>Source Sampling</u></b><br>Upon the request of the Control Officer and as directed by him the owner of any source operation which emits or may emit air contaminants, for which emission limits have been established, shall provide the necessary and proper facilities for source sampling.<br><br>The applicable test method, if not specified in the rule, shall be conducted in accordance with Title 40 Code of Federal Regulations (40 CFR), Subpart 60, Appendix A - Reference Methods, except particulate matter (PM <sub>10</sub> ) for compliance with Rule 210.1 requirements shall be conducted in accordance | Reg. I, Rule 108.1 |

|  |                                                                                                                                                                                                                                                  |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|  | with 40 CFR, Subpart 51, Appendix M, Method 201 or 201A. Where no test method exists in the preceding references for a source type source sampling shall be conducted in accordance with California Air Resources Board (CARB) approved methods. |  |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|    | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Reg/Rule</b>      |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 4. | <p><b><u>Equipment Breakdown</u></b><br/> An occurrence which constitutes a breakdown condition, and which persists only until the end of the production run or 24-hours, whichever is sooner (except for continuous monitoring equipment, for which the period shall be ninety-six (96) hours), shall constitute a violation of any applicable emission limitation or restriction prescribed by these Rules and Regulations; however, no enforcement action may be taken provided the owner or operator demonstrates to the Control Officer that a breakdown condition exists and the proper requirements are met.</p>                                                                                                                                                                                                                                                                                          | Reg. I,<br>Rule 111  |
| 5. | <p><b><u>Severability</u></b><br/> If any provision, clause, sentence, paragraph, section or part of these Regulations or application thereof to any person or circumstance shall for any reason be adjudged by a court of competent jurisdiction to be unconstitutional or invalid, such judgment shall not affect or invalidate the remainder of this Regulation and the application of such provision to other persons or circumstances, but shall be confined in its operation to the provision, clause, sentence, paragraph, section or part thereof directly involved in the controversy in which such judgment shall have been rendered and to the person or circumstance involved, and it is hereby declared to be the intent of the Eastern Kern Air Pollution Control Board that these Regulations would have been adopted in any case had such invalid provision or provisions not been included.</p> | Reg. I,<br>Rule 114  |
| 6. | <p><b><u>Conditional Approval</u></b><br/> The Control Officer shall issue an Authority to Construct or a Permit to Operate, subject to conditions to insure compliance of the operation of any article, machine, equipment or other contrivance within the standards of Rule 208 and 208.1, in which case the conditions shall be specified in writing. Commencing work under such Authority to Construct or operation under such Permit to Operate shall be deemed acceptance of all conditions so specified. The Control Officer shall issue an Authority to Construct or Permit to Operate with revised conditions upon receipt of a new application, if the applicant demonstrates the article, machine, equipment or other contrivance can be operated within the standards of Rule 208 and 208.1 under the revised conditions.</p>                                                                        | Reg. II,<br>Rule 209 |

|    | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Reg/Rule</b>                                    |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| 7. | <p><b><u>Standards for Authority to Construct</u></b></p> <p>A. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:</p> <ol style="list-style-type: none"> <li>1) The Permittee has obtained all permits and approvals required by District Rules 201 and 210.1 (unless the change is exempt under District Rule 202);</li> <li>2) The change is not subject to any requirements under Title IV of the Clean Air Act;</li> <li>3) The change is not a Title I modification; and</li> <li>4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of this permit.</li> </ol> <p>B. For a change that qualified under this section, the Permittee shall provide contemporaneous written notice to the District and the U.S. EPA (except for a change that is exempt under District Rule 202). This written notice shall describe the change, including the date it was made, and shall contain other information as required to determine new applicable requirements of the Clean Air Act that apply as a result of the change;</p> <p>C. Upon satisfying the requirements of paragraph B above, the Permittee may make the proposed change;</p> <p>D. Changes that qualify under this section are not subject to the requirements for Part 70 revisions;</p> <p>E. The Permittee shall include each off-permit change made under this section in the application for renewal of this Part 70 permit; and</p> <p>F. The permit shield(s) provided in this permit do not apply to off-permit changes made under this section.</p> | Reg. II,<br>Rule<br>210.1<br>Section<br>IV.<br>D.3 |
| 8. | <p><b><u>Prevention of Significant Deterioration (PSD)</u></b></p> <p>Facility may be subject to District Rule 210.4, Prevention of Significant Deterioration (PSD) if it undergoes major modification(s).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Reg. II,<br>Rule<br>210.4                          |

|     | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Reg/Rule</b>                 |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 9.  | <p><b><u>Tailoring Rule Requirements</u></b><br/> Per the Tailoring Rule, a current permit application for an existing Title V facility includes facility-wide emissions of all air pollutants for which the source exceeds a Title V applicability threshold. If the facility has actual or potential emissions <math>\geq 75,000</math> tpy GHGs, then GHG emissions must be included in the Title V permit application, as the facility exceeds the GHG applicability threshold for BACT for GHG.</p> <p>If actual or potential GHG emissions are <math>&lt; 75,000</math> tpy GHGs, no modification to the Title V permit application is necessary, as the facility is not a major source of GHG emissions. EPA has not established a deadline for submitting an updated Title V permit application to include GHG emissions; GHG emissions should be included when renewing or modifying a Title V permit application on or after January 2, 2011.</p> <p>Note: The international GHG reporting unit CO<sub>2</sub>e is the sum of each GHG, multiplied by its global warming potential (GWP). The second threshold is the total GHG emissions from the facility in tpy, without considering the GWP.</p> | 40 CFR Parts 51, 52, 70, and 71 |
| 10. | <p><b><u>Permit Fees</u></b><br/> Every applicant for an Authority to Construct or a Permit to Operate shall pay a filing fee. For issuance of an Authority to Construct, or an initial Permit to Operate, the applicant shall pay fees as prescribed in Rule 301. For issuance of an Authority to Construct, application processing fees shall also be paid as prescribed in Rule 303. The applicant shall receive credit for filing fees paid.</p> <p>Annually on the anniversary of issuance of a Permit to Operate, the permittee shall pay a renewal fee as prescribed in Rule 301. Fees collected pursuant to Rule 201.1, Section VII.A. shall supplement applicable Rules 301 and 301.3 fee requirements.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Reg. III, Rule 301              |

|     | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Reg/Rule</b>            |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 11. | <p><b><u>Payment of Supplemental Fee</u></b><br/> An owner or operator, or his designee, shall pay an annual supplemental fee for a permit to operate pursuant to this Rule as determined by the calculation method in Subsection C., to provide a District-wide fee rate of \$25 per ton of fee-based emissions (CPI-adjusted) for all facilities subject to Rule 201.1, unless Rule 201.1 VII.B. applies.</p>                                                                                                                                     | Rule 201.1 Section VII. A. |
| 12. | <p><b><u>Visible Emissions Limits</u></b><br/> A person shall not discharge into the atmosphere, from any single source of emission whatsoever, any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:</p> <p>A. As dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or</p> <p>B. Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in Subsection A.</p> | Reg. IV, Rule 401          |
| 13. | <p><b><u>Particulate Matter Concentration - Desert Basin</u></b><br/> A person shall not discharge into the atmosphere from any single source operation, in service on the date this Rule is adopted, particulate matter in excess of 0.1 grains per cubic foot of gas at standard conditions.</p>                                                                                                                                                                                                                                                  | Reg. IV, Rule 404.1        |
| 14. | <p><b><u>Sulfur Compounds</u></b><br/> A person shall not discharge into the atmosphere sulfur compounds, which would exist as a liquid or gas at standard conditions, exceeding in concentration at the point of discharge: 0.2 percent by volume calculated as sulfur dioxide (SO<sub>2</sub>).</p>                                                                                                                                                                                                                                               | Reg. IV, Rule 407          |
| 15. | <p><b><u>Nuisance</u></b><br/> A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property.</p>                                                                                                 | Reg. IV, Rule 419          |
| 16. | <p><b><u>Federal New Source Performance Standards (NSPS)</u></b><br/> Provisions of Part 60, Chapter 1, Title 40, Code of Federal Regulations, in effect July 1, 2010, are hereby adopted by reference and made a part hereof. All new and modified sources shall comply with standards, criteria and requirements therein.</p> <p>All applicable requirements of 40 CFR Part 60, Subparts A, Cc and WWW apply to this facility.</p>                                                                                                                | Reg. IV, Rule 422          |

|     | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Reg/Rule</b>      |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 17. | <p><b><u>National Emission Standards for Hazardous Air Pollutants and Source Categories (NESHAPS)</u></b></p> <p>Provisions of Title 40, Chapter 1, Parts 61 and 63, Code of Federal Regulations, in effect July 1, 2010, are hereby adopted by reference and made a part hereof. All sources of hazardous air pollution shall comply with applicable standards, criteria and requirements set forth herein.</p> <p>All applicable requirements of 40 CFR Part 63, Subparts A, and AAAA. apply to this facility.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Reg. IV,<br>Rule 423 |
| 18. | <p><b><u>Compliance Certification</u></b></p> <p>The owner/operator shall comply with the following procedures for compliance certification:</p> <ul style="list-style-type: none"> <li>A. Submittal of a compliance certification by the owner or operator to the U.S. EPA and copy to the APCO within 60 days after end of compliance certification period;</li> <li>B. Compliance certification period shall begin April 1 of each year and end March 31 of the following year;</li> <li>C. Such compliance certification shall identify the basis for each permit term or condition, e.g., specify the emissions limitation, standard or work practice, and a means of monitoring compliance with the term or condition;</li> <li>D. Such compliance certification shall include compliance status and method(s) used to determine compliance for the current time period and over entire reporting period; and</li> <li>E. Such compliance certification shall include any additional inspection, monitoring or entry requirement promulgated pursuant to Sections 114(a) and 504(b) of the CAA.</li> </ul> | 40 CFR<br>70.5d      |

|     | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Reg/Rule</b>     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 19. | <p>Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.</p> <p>U.S. EPA's Mailing Address:<br/> Director, Air Division<br/> 75 Hawthorne Street<br/> AIR-3<br/> San Francisco, CA 94105</p>                                                                                                                                                                                                                                                                                                                                                                  | 40 CFR 70.5d        |
| 20. | <p><b><u>Compliance with Permit Conditions</u></b></p> <p>A. Permittee shall comply with all permit conditions;</p> <p>B. Permit does not convey any property rights or any exclusive privilege;</p> <p>C. Non-compliance with any permit condition shall be grounds for permit termination, revocation and reissuance, modification, enforcement action or denial of permit renewal;</p> <p>D. Permittee shall not use "need to halt or reduce a permitted activity in order to maintain compliance" as a defense for non-compliance with any permit condition;</p> <p>E. Pending permit action or notification of anticipated non-compliance does not stay any permit condition; and</p> <p>F. Within a reasonable time period, permittee shall furnish any information requested by the APCO, in writing, for purpose of determining: 1) compliance with the permit, or 2) whether or not cause exists for a permit or enforcement action.</p> | Reg. II, Rule 201.1 |

|     | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Reg/Rule</b>                               |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 21. | <p><b><u>Emergency Provisions</u></b></p> <p>A. The permittee shall comply with the requirements of Rule 111 and the emergency provisions contained in all permit streamlining requirements imposed in accordance with Subsection V.J., Page 201.1-27, all District-only rules which apply in accordance with Subsection V.K.1., Page 201.1-28, and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules;</p> <p>B. Within two weeks of an emergency event, an owner or operator of the source shall submit to the District a properly signed, contemporaneous log or other relevant evidence which demonstrates that:</p> <ol style="list-style-type: none"> <li>1) An emergency occurred;</li> <li>2) The permittee can identify the cause(s) of the emergency;</li> <li>3) The facility was being properly operated at the time of the emergency;</li> <li>4) All steps were taken to minimize the emissions resulting from the emergency; and</li> <li>5) Within two working days of the emergency event, the permittee provided the District with a description of the emergency and any mitigating or corrective actions taken;</li> </ol> <p>C. In any enforcement proceeding, the permittee has the burden of proof for establishing that an emergency occurred.</p> | Reg. II,<br>Rule 201.1<br>Section VI.<br>B.12 |
| 22. | <p><b><u>Record keeping</u></b></p> <p>A. Recording of maintenance of all monitoring and support information associated with all permit streamlining requirements imposed in accordance with Subsection V.J., all District-only rules which apply in accordance with Subsection V.K.1., and all applicable federal requirement not submitted by such permit streamlining requirement(s) or District-only rules, including:</p> <ol style="list-style-type: none"> <li>1) Date, place, and time of sampling;</li> <li>2) Operating conditions at time of sampling;</li> <li>3) Date, place, and method of analysis; and</li> <li>4) Results of analysis;</li> </ol> <p>B. Retention of records of all required monitoring data and support information for a period of at least five years from the date of sample collection, measurement, report, or application; and</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Reg. II,<br>Rule 201.1                        |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                        |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
|     | <p>C. Any other record keeping deemed necessary by the APCO to ensure compliance with all permit streamlining requirements imposed in accordance with Subsection V.J., all District-only rules which apply in accordance with Subsection V.K.1., and all applicable federal requirements not subsumed by such permit streamlining requirement(s) or District-only rules.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                        |
| 23. | <p><b><u>Reporting</u></b></p> <p>A. Any non-conformance with permit requirements, including any attributable to emergency conditions (as defined in the permit) shall be promptly reported to the APCO and in accordance with Rule 111;</p> <p>B. Monitoring report shall be submitted at least every six months identifying any non-conformance with permit requirements, including any previously reported to the APCO;</p> <p>C. All reports of non-conformance with permit requirements shall include probable cause of non-conformance and any preventative or corrective action taken;</p> <p>D. Progress report shall be made on a compliance schedule at least semi-annually and including:</p> <ol style="list-style-type: none"> <li>1) Date when compliance will be achieved,</li> <li>2) Explanation of why compliance was not, or will not be achieved by the scheduled date, and</li> <li>3) Log of any preventative or corrective action taken; and</li> </ol> <p>E. Each monitoring report shall be accompanied by a written statement from the responsible official certifying the truth, accuracy, and completeness of the report.</p> <p>F. Facility is subject to Greenhouse Gas (GHG) reporting requirements if actual or potential GHG emissions are &lt;100,000 tpy CO<sub>2</sub>e or &lt;100 tpy GHGs as of January 2, 2011.</p> | Reg. II,<br>Rule 201.1 |
| 24. | <p><b><u>Referencing of District and Applicable Requirements</u></b></p> <p>Pursuant to Rule 201.1.VI.c. District hereby references the following documents which are clearly identified and available to the District and to the public:</p> <p>A. Plant modernization project 1980; and</p> <p>B. Each Authority to Construct file for new equipment and each Authority to Construct file to modify existing equipment.</p> <p>These files contain title, document number, applicant, and date received. Also included in these files are rule citations, engineering evaluations, and final documents all related to the existing permit conditions and emissions limits set forth in this permit.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reg. II,<br>Rule 201.1 |

|     | <b>Federally Enforceable Conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Reg/Rule</b>                      |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 25. | <p><b><u>Right of Entry</u></b><br/> The source shall allow entry of District, CARB, or U.S. EPA officials for purpose of inspection and sampling, including:</p> <ul style="list-style-type: none"> <li>A. Inspection of the stationary source, including equipment, work practices, operations, and emission-related activity;</li> <li>B. Inspection and duplication of records required by the permit to operate; and</li> <li>C. Source sampling or other monitoring activities.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                         | Reg. III, Rule 201.1                 |
| 26. | <p><b><u>Permit Life</u></b><br/> The life of this permit shall be five years from the date of issuance.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Reg. II, Rule 201.1 Section VI. B.15 |
| 27. | <p><b><u>Administrative Permit Amendment and Minor Permit Modification</u></b><br/> Administrative Permit Amendment and Minor Permit Modification are those actions taken by the District as defined in Rule 201.1.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reg. II, Rule 201.1                  |
| 28. | <p><b><u>Applicability of Federally Enforceable Conditions</u></b><br/> Federally Enforceable Conditions <b><u>do not apply</u></b> to the following permit sections: Equipment Descriptions, and any Design Conditions, Operational Conditions, Special Conditions, or Compliance Testing Requirements designated as District only. Federally Enforceable Conditions <b><u>shall apply</u></b> to Design Conditions, Operational Conditions, Special Conditions, Compliance Testing Requirements, and Emission Limits except as noted above.</p>                                                                                                                                                                                                                                                                                                                                                        | Reg. II, Rule 201.1                  |
| 29. | <p><b><u>Periodic Monitoring Non-Point</u></b><br/> Ridgecrest Recycling and Sanitary Landfill shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 for all non-point sources. This testing will be the basis for determining compliance with the visible emission standard in District Rule 401.</p> <p>If no emissions are observed utilizing Method 22, the non-point source shall be deemed to be in compliance with the visible emission standard. If emissions are observed from any non-point source and that source is not operating under breakdown condition as defined in and allowed for in District Rule 111, Ridgecrest Recycling and Sanitary Landfill shall conduct testing on that non-point source within 24 hours of the Method 22 testing in accordance with EPA Method 9 to verify compliance with the visible emission standard.</p> |                                      |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|     | NOTE: This requirement does not apply to fugitive emissions resulting from activities not covered by a permit to operate unless the source is subject to District Rule 210.1 (NSR) requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |
| 30. | <p><b><u>Periodic Monitoring Point</u></b></p> <p>Ridgecrest Recycling shall conduct testing semi-annually, in accordance with the methodology contained in EPA Method 22 for all point sources. This testing will be the basis for determining compliance with the visible emission standard in District Rule 401. If no emissions are observed utilizing Method 22, the point source shall be deemed to be in compliance with the visible emission standard. If emissions are observed from any point source and that point source is not operating under breakdown condition as defined in and allowed for in District Rule 111, Ridgecrest Recycling shall conduct testing on that point source:</p> <ul style="list-style-type: none"> <li>A. Within 24 hours of the Method 22 testing in accordance with EPA Method 9 to verify compliance with the visible emission standard. If compliance is not documented:</li> <li>B. Within 30 days of the Method 9 testing in accordance with EPA Method 5 or 5D to verify compliance with the requirements of District Rules 404.1, 405, and/or 210.1.</li> </ul> <p><b><u>Additional Monitoring</u></b></p> <p>All control equipment shall be inspected annually for proper operation. Ridgecrest Recycling shall maintain all records of control equipment maintenance for a period of five years.</p> <p>Monitoring shall be the responsibility of the source; however, a visible emissions inspection or Method 9 conducted by a District inspector may be counted as meeting the requirement for the source to conduct same if the information and records generated by the inspector meets the requirements of the permit and a copy of the records are maintained by the source for a period of five years.</p> <p>Record keeping provisions associated with all monitoring requirements shall include the following information:</p> <ul style="list-style-type: none"> <li>A. Identification of stack or emission point being monitored;</li> <li>B. Operational conditions at the time of monitoring;</li> </ul> |  |

[illegible]

Emission Unit 004 Permit Conditions

| <u>Facility<br/>Number</u> | <u>Emissions<br/>Unit</u> | <u>Description of Source</u> |
|----------------------------|---------------------------|------------------------------|
| 0027                       | 004                       | Class III Sanitary Landfill  |

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Class III Sanitary Landfill (Ridgecrest), including following equipment:

- A. Landfill cells;
- B. Access roads;
- C. Borrow pits and/or dirt stockpiles;
- D. Earth moving equipment (permit exempt); and
- E. Gas monitoring probe.

Emission Unit 004 Permit Conditions

**OPERATIONAL CONDITIONS:**

- 1. Visible emissions at property line shall be less than 20% opacity except for, not more than three minutes in any one hour. (Rule 401)
- 2. during periods when reasonably available control measures cannot be employed, or are employed but are not effective. (Rule 401)
- 3. No emission shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health, or safety of any persons or have natural tendency to cause injury or damage to business or property. (CH&SC, Sec 41700 & Rule 419)
- 4. Category I and II asbestos containing material in good condition may be received and disposed, provided material is covered with at least 6 inches of non-asbestos containing cover prior to compaction activities. (Rule 423 and 40 CFR 61, Subpart M)
- 5. Landfill cover material shall be clean dirt unless alternative is approved by District prior to use. Clean dirt is defined as dirt that is free of contaminants, rocks, wood and trash. (Rule 210.1)
- 6. Landfill operation shall be subject to District PM<sub>10</sub> Fugitive Dust policy. (93-01)
- 7. Conformity with CCR 20540 and 20800 of Title 27 shall be maintained to maintain exemption provided in Rule 402. (Rule 402)

**COMPLIANCE TESTING REQUIREMENTS:**

Should visible emissions indicate non-compliance with dust collector emission limits, compliance with hourly and concentration emission limits for particulates shall be verified pursuant to Rule 108.1 and District Guidelines for Compliance Testing, within 30 days of District request. (Rule 108.1)

Emission Unit 005C Permit Conditions

| <u>Facility<br/>Number</u> | <u>Emissions<br/>Unit</u> | <u>Description of Source</u>                |
|----------------------------|---------------------------|---------------------------------------------|
| 0027                       | 005C                      | Landfill Gas Extraction and Disposal System |

**Emission Unit Equipment Description/Permit Conditions**

**Federally Enforceable Conditions**

**EQUIPMENT DESCRIPTION:** Landfill Gas Extraction and Disposal System, including the following equipment:

Landfill Gas Extraction and Disposal System including:

- A. Landfill Gas (LFG) collection system,
- B. 3,000 gallon capacity blow-down water tank,
- C. Activated carbon adsorption VOC control system including 250 scfm regenerative blower with 5 hp motor and exhaust stack.

**OPERATIONAL CONDITIONS:**

1. Carbon canisters volume shall not be less than 8,600 cubic feet. (Rule 210.1 BACT Requirement)
2. Carbon canisters shall be equipped with non-condensable gas volumetric flow meter. (Rule 210.1)
3. Exhaust stack shall be equipped with adequate provisions for collection of samples consistent with EPA test methods (e.g. capped sample port in assessable location of uniform flow, etc.). (Rule 108.1)
4. Visible emissions from carbon canisters shall not equal or exceed 0% opacity for more than 5 minutes in any two hour period. (Rule 210.1 BACT Requirement)
5. Exhaust gas particulate matter concentration shall not exceed 0.1 grains/ft<sup>3</sup> of gas at standard conditions. (Rule 404.1)
6. Condensate collected by LFG collection wells shall be disposed by transport to waste treatment facility or recycled into carbon canisters. (Rule 210.1)
7. VOC concentration from carbon canisters exhaust shall not exceed 4.4 ppmv (as hexane). (Rule 210.1)
8. Hydrogen sulfide (H<sub>2</sub>S) concentration from carbon canisters exhaust shall not exceed 5 ppmv. (Rule 210.1)
9. Equipment shall be maintained according to manufacturer's specifications to ensure compliance with emissions limitations. (Rule 210.1 and Rule 209)
10. Compliance with all operational conditions shall be verified by appropriate record keeping, including records of operational data needed to demonstrate compliance. Such records shall be kept on site in readily available format. (Rule 209)
11. No emission resulting from use of this equipment shall cause injury, detriment, nuisance, annoyance to or endanger comfort, repose, health or safety of any considerable number of persons or public. (Rule 419 and CH&SC 41700)

12. Landfill gas to carbon canisters shall not exceed 150 standard cubic feet per minute (scfm). (Rule 210.1)
13. Ridgecrest Sanitary Landfill current design capacity is 2.42 million megagrams. Kern County Waste Management Department (KCWMD) shall immediately notify EKAPCD if design capacity increases to 2.5 million megagrams. (Rule 422, Subparts Cc, and WWW)

### **STATE OF CALIFORNIA AIR TOXICS HOT SPOTS REQUIREMENTS:**

Facility shall comply with California Health and Safety Code, Sections 44300 through 44384. (Rule 208.1)

### **COMPLIANCE TESTING REQUIREMENTS:**

Should inspection reveal conditions indicative of non-compliance, compliance with fabric collector emission limitations shall be verified, within 60 days of District request. (Rule 108.1)

### **EMISSION LIMITS:**

Maximum emission rate of each air contaminant from this emission unit shall not exceed following limits:

Emission Unit 005 Permit Conditions

Carbon Canisters Exhaust :

|                                           |      |         |
|-------------------------------------------|------|---------|
| <u>Volatile Organic Compounds (VOC):</u>  | 0.02 | lb/hr   |
|                                           | 0.36 | lb/day  |
|                                           | 0.07 | tons/yr |
| <u>Hydrogen Sulfide (H<sub>2</sub>S):</u> | 0.01 | lb/hr   |
|                                           | 0.14 | lb/day  |
|                                           | 0.03 | tons/yr |

(Emission limits established pursuant to Rule 210.1, unless otherwise noted.)

Compliance with maximum daily emission limits shall be verified by source operator (with appropriate operational data and record keeping to document maximum daily emission rate) each day source is operated and such documentation of compliance shall be retained and made readily available to District for period of five years. (Rules 201.1, 209 and 210.1)

## Appendix A

Facility is subject to the following subparts of the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart A and Subpart WWW, National Emissions Standards for Hazardous Air Pollutants (NESHAPs) 40 CFR Part 61, Subpart M, 40 CFR Part 63, Subpart A and State Permit requirements as required by 40 CFR 70.5d. All requirements are listed in this Appendix Below:

- A. 40 CFR Part 60, Subpart A** (General Provisions of NSPS) – Provides definitions to be utilized in other parts of 40 CFR Part 60. Additionally, delegation status for NSPS for Eastern Kern County APCD is listed. No specific requirements for the facility are this Subpart. Ridgecrest Recycling is in compliance with 40 CFR Part 60, Subpart A.
- B. 40 CFR Part 60, Subpart WWW** (Standards of Performance for Municipal Solid Waste Landfills) – that commences construction, reconstruction or modification on or after May 30, 1991.
1. The provisions of this subpart apply to each municipal solid waste landfill that commenced construction, reconstruction or modification on or after May 30, 1991. Physical or operational changes made to an existing MSW landfill solely to comply with subpart Cc of this part are not considered construction, reconstruction, or modification for the purposes of this section.
  2. Each owner or operator of an MSW landfill having a design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume shall submit an initial design capacity report to the Administrator as provided in §60.757(a). The landfill may calculate design capacity in either megagrams or cubic meters for comparison with the exemption values. Any density conversions shall be documented and submitted with the report. Submittal of the initial design capacity report shall fulfill the requirements of this subpart except as provided for in paragraphs (a)(1) and (a)(2) of this section.
    - a. If the calculated NMOC emission rate is less than 50 megagrams per year, the owner or operator shall:
      - i. Submit an annual emission report to the Administrator, except as provided for in §60.757(b)(1)(ii); and
      - ii. Recalculate the NMOC emission rate annually using the procedures specified in §60.754(a)(1) until such time as the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, or the landfill is closed.
        1. If the NMOC emission rate, upon recalculation required in paragraph (b)(1)(ii) of this section, is equal to or greater than 50 megagrams per year, the owner or operator shall install a collection and control system in compliance with paragraph (b)(2) of this section.
        2. If the landfill is permanently closed, a closure notification shall be submitted to the Administrator as provided for in §60.757(d).
    - iii. If the calculated NMOC emission rate is equal to or greater than 50 megagrams per year, the owner or operator shall:
      1. Submit a collection and control system design plan prepared by a professional engineer to the Administrator within 1 year:
        - a. The collection and control system as described in the plan shall meet the design requirements of paragraph (b)(2)(ii) of this section.

- b. The collection and control system design plan shall include any alternatives to the operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of §§60.753 through 60.758 proposed by the owner or operator.
      - c. The collection and control system design plan shall either conform with specifications for active collection systems in §60.759 or include a demonstration to the Administrator's satisfaction of the sufficiency of the alternative provisions to §60.759.
      - d. The Administrator shall review the information submitted under paragraphs (b)(2)(i) (A),(B) and (C) of this section and either approve it, disapprove it, or request that additional information be submitted. Because of the many site-specific factors involved with landfill gas system design, alternative systems may be necessary. A wide variety of system designs are possible, such as vertical wells, combination horizontal and vertical collection systems, or horizontal trenches only, leachate collection components, and passive systems.
    - iv. Install a collection and control system that captures the gas generated within the landfill as required by paragraphs (b)(2)(ii)(A) or (B) and (b)(2)(iii) of this section within 30 months after the first annual report in which the emission rate equals or exceeds 50 megagrams per year, unless Tier 2 or Tier 3 sampling demonstrates that the emission rate is less than 50 megagrams per year, as specified in §60.757(c)(1) or (2).
      - 1. An active collection system shall:
        - a. Be designed to handle the maximum expected gas flow rate from the entire area of the landfill that warrants control over the intended use period of the gas control or treatment system equipment;
        - b. Collect gas from each area, cell, or group of cells in the landfill in which the initial solid waste has been placed for a period of:
          - i. 5 years or more if active; or
          - ii. 2 years or more if closed or at final grade.
        - c. Collect gas at a sufficient extraction rate;
        - d. Be designed to minimize off-site migration of subsurface gas.
      - 2. A passive collection system shall:
        - a. Comply with the provisions specified in paragraphs (b)(2)(ii)(A)(1), (2), and (2)(ii)(A)(4) of this section.
        - b. Be installed with liners on the bottom and all sides in all areas in which gas is to be collected. The liners shall be installed as required under §258.40.
  - v. Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.
    - 1. An open flare designed and operated in accordance with §60.18 except as noted in §60.754(e);

2. A control system designed and operated to reduce NMOC by 98 weight-percent, or, when an enclosed combustion device is used for control, to either reduce NMOC by 98 weight percent or reduce the outlet NMOC concentration to less than 20 parts per million by volume, dry basis as hexane at 3 percent oxygen. The reduction efficiency or parts per million by volume shall be established by an initial performance test to be completed no later than 180 days after the initial startup of the approved control system using the test methods specified in §60.754(d).
    - a. If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone.
    - b. The control device shall be operated within the parameter ranges established during the initial or most recent performance test. The operating parameters to be monitored are specified in §60.756;
      - i. Route all the collected gas to a control system that complies with the requirements in either paragraph (b)(2)(iii) (A), (B) or (C) of this section.
  - vi. Operate the collection and control device installed to comply with this subpart in accordance with the provisions of §§60.753, 60.755 and 60.756.
  - vii. The collection and control system may be capped or removed provided that all the conditions of paragraphs (b)(2)(v) (A), (B), and (C) of this section are met:
    1. The landfill shall be a closed landfill as defined in §60.751 of this subpart. A closure report shall be submitted to the Administrator as provided in §60.757(d);
    2. The collection and control system shall have been in operation a minimum of 15 years; and
    3. Following the procedures specified in §60.754(b) of this subpart, the calculated NMOC gas produced by the landfill shall be less than 50 megagrams per year on three successive test dates. The test dates shall be no less than 90 days apart, and no more than 180 days apart.
3. For purposes of obtaining an operating permit under title V of the Act, the owner or operator of a MSW landfill subject to this subpart with a design capacity less than 2.5 million megagrams or 2.5 million cubic meters is not subject to the requirement to obtain an operating permit for the landfill under part 70 or 71 of this chapter, unless the landfill is otherwise subject to either part 70 or 71. For purposes of submitting a timely application for an operating permit under part 70 or 71, the owner or operator of a MSW landfill subject to this subpart with a design capacity greater than or equal to 2.5 million megagrams and 2.5 million cubic meters, and not otherwise subject to either part 70 or 71, becomes subject to the requirements of §§70.5(a)(1)(i) or 71.5(a)(1)(i) of this chapter, regardless of when the design capacity report is actually submitted, no later than:
  - a. June 10, 1996 for MSW landfills that commenced construction, modification, or reconstruction on or after May 30, 1991 but before March 12, 1996;

- b. Ninety days after the date of commenced construction, modification, or reconstruction for MSW landfills that commence construction, modification, or reconstruction on or after March 12, 1996.
- 4. When a MSW landfill subject to this subpart is closed, the owner or operator is no longer subject to the requirement to maintain an operating permit under part 70 or 71 of this chapter for the landfill if the landfill is not otherwise subject to the requirements of either part 70 or 71 and if either of the following conditions are met:
  - a. The landfill was never subject to the requirement for a control system under paragraph (b)(2) of this section; or
  - b. The owner or operator meets the conditions for control system removal specified in paragraph (b)(2)(v) of this section.

**F. 40 CFR Part 63, Subpart A** (General Provisions of NESHAPs) – Provides applicability and definitions utilized in other parts of 40 CFR Part 63. No specific requirements for the facility are this Subpart. Ridgecrest Recycling and Sanitary Landfill is in compliance with 40 CFR Part 63, Subpart A.

**G. 40 CFR Part 63, Subpart AAAA** National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste – This subpart establishes national emissions standards for hazardous air pollutants for existing and new municipal (MSW) landfills.

- 1. This subpart requires all landfills to meet the requirements of 40 CFR part 60, subpart Cc or WWW and requires timely control of bioreactors. This subpart also requires such landfills to meet the startup, shutdown, and malfunction (SSM) requirements of the general provisions of this part and provides that compliance with the operating conditions shall be demonstrated by parameter monitoring results that are within the specified ranges. It also includes additional reporting requirements.
  - a. You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition and meets any one of the three criteria in paragraphs (a)(1) through (3) of this section:
    - i. Your MSW landfill is a major source as defined in 40 CFR 63.2 of subpart A.
    - ii. Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of subpart A.
    - iii. Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million megagrams (Mg) and 2.5 million cubic meters (m<sup>3</sup>) and has estimated uncontrolled emissions equal to or greater than 50 megagrams per year (Mg/yr) NMOC as calculated according to §60.754(a) of the MSW landfills new source performance standards in 40 CFR part 60, subpart WWW, the Federal plan, or an EPA approved and effective State or tribal plan that applies to your landfill.
  - b. You are subject to this subpart if you own or operate a MSW landfill that has accepted waste since November 8, 1987 or has additional capacity for waste deposition, that includes a bioreactor, as defined in §63.1990, and that meets any one of the criteria in paragraphs (b)(1) through (3) of this section:
    - i. Your MSW landfill is a major source as defined in 40 CFR 63.2 of subpart A.
    - ii. Your MSW landfill is collocated with a major source as defined in 40 CFR 63.2 of subpart A.

- iii. Your MSW landfill is an area source landfill that has a design capacity equal to or greater than 2.5 million Mg and 2.5 million m<sup>3</sup> and that is not permanently closed as of January 16, 2003.
  - c. You are no longer required to comply with the requirements of this subpart when you are no longer required to apply controls as specified in 40 CFR 60.752(b)(2)(v) of subpart WWW, or the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR part 60, subpart Cc, whichever applies to your landfill.
  - d. You must fulfill one of the following requirements:
    - i. Comply with the requirements of 40 CFR part 60, subpart WWW.
    - ii. Comply with the requirements of the Federal plan or EPA approved and effective State plan or tribal plan that implements 40 CFR part 60, subpart Cc.
- I. **40 CFR 70.5d** (State Operating Permit Program) – Any application form, report, or compliance certification submitted pursuant to these regulations shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this part shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

## Agency Notifications

All correspondence as required by this Approval to Construct/Modify shall be forwarded to:

- A. Director, Air Division (Attn: AIR-3)  
U.S. Environmental Protection Agency  
75 Hawthorne Street  
San Francisco, CA 94105
- B. Chief, Stationary Source Division  
California Air Resources Board  
P.O. Box 2815  
Sacramento, CA 95812
- C. Air Pollution Control Officer  
Eastern Kern Air Pollution Control District  
2700 M Street, Suite 302  
Bakersfield, CA 93301

**Appendix B****Compliance Air Monitoring (CAM)**

In accordance with 40 CFR Part 64 Section 64.2,(b)(i), landfill and scrubber are emissions units not subject to Section 112 (National Emission Standards for Hazardous Air Pollutants) of the Clean Air Act proposed after 1990. Therefore, a CAM plan is not required and the following is added as reference.

|                              |                                                                                                                                                                 |                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Emissions Unit Equipment No. | <b>0027004</b>                                                                                                                                                  |                               |
| Equipment Description        | Landfill Gas Collection System                                                                                                                                  |                               |
| Uncontrolled Emissions       | Pollutant                                                                                                                                                       | Potential to Emit (tons/year) |
|                              | VOC                                                                                                                                                             | 3.5                           |
| Control Equipment            | Scrubber                                                                                                                                                        |                               |
| Controlled Emissions         | Pollutant                                                                                                                                                       | Potential to Emit (tons/year) |
|                              | VOC                                                                                                                                                             | 0.07                          |
| Monitoring Procedures        | EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills) |                               |

|                              |                                                                                                                                                                 |                               |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Emissions Unit Equipment No. | <b>0027005C</b>                                                                                                                                                 |                               |
| Equipment Description        | Landfill Gas Collection Control System                                                                                                                          |                               |
| Uncontrolled Emissions       | Pollutant                                                                                                                                                       | Potential to Emit (tons/year) |
|                              | H <sub>2</sub> S                                                                                                                                                | 0.3                           |
| Control Equipment            | Fabric Collectors                                                                                                                                               |                               |
| Controlled Emissions         | Pollutant                                                                                                                                                       | Potential to Emit (tons/year) |
|                              | H <sub>2</sub> S                                                                                                                                                | 0.3                           |
| Monitoring Procedures        | EPA Methods 9 or 22 in accordance with 40 CFR Part 63, Subpart AAAA (National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills) |                               |

## Appendix C

### Greenhouse Gas Facility Wide Reporting

#### **Greenhouse Gases:**

Carbon dioxide (CO<sub>2</sub>),  
Nitrous oxide (N<sub>2</sub>O),  
Methane (CH<sub>4</sub>),  
Hydrofluorocarbons (HFCs),  
Perfluorocarbons (PFCs), and  
Sulfur Hexafluoride (SF<sub>6</sub>).

Reported for the year 2009

| <b>GHG EMISSIONS</b> (short tons per year) |                 |                 |                  |      |      |                 |       |
|--------------------------------------------|-----------------|-----------------|------------------|------|------|-----------------|-------|
| Pollutants:                                | CO <sub>2</sub> | CH <sub>4</sub> | N <sub>2</sub> O | HFCs | PFCs | SF <sub>6</sub> | Total |
| Emissions (tpy):                           | 0               | 121             | 0                | 0    | 0    | 0               |       |
| *GWP:                                      | 1               | 21              | 310              | **   | **   | 23,900          |       |
| CO <sub>2</sub> e (tpy):                   | 0               | 2,667           | 0                | 0    | 0    | 0               | 2,667 |

\*Global Warming Potential (GWP): The capacity to heat the atmosphere, calculated as the ratio of the time-integrated radiative forcing from the instantaneous release of 1 kilogram (kg) of a substance relative to that of 1 kg of CO<sub>2</sub>. GWP shall be calculated according to the factors for a 100-year time horizon, as stated in 40 CFR Part 98 Subpart A Table A-1 (Global Warming Potentials).

\*\* GWP varies based on each pollutant.