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1.  RECEIVED IN ENFORCEMENT: 04/27/2022

April 27, 2022

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
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San Francisco, CA 94105  
Attn: Title V Reports

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

SUBJECT: Combined Title V Semi-Annual and Partial 8-34 Annual Report 40 CFR 63  
Subpart AAAA Semi-Annual Report  
Guadalupe Recycling & Disposal Facility  
15999 Guadalupe Mines Road, San Jose, CA 95120  
Facility Number A3294

Dear Sir or Madam:

The Guadalupe Rubbish Disposal Co., Inc. (GRDC) is pleased to submit the attached Combined Title V Semi-Annual and Partial 8-34 Annual Report for the period of October 1, 2021, through March 31, 2022, to the Bay Area Air Quality Management District (BAAQMD) and the United States Environmental Protection Agency (USEPA), Region IX. As required by 40 Code of Federal Regulations (CFR) Part 63 Subpart AAAA, the Semi-Annual Startup, Shutdown and Malfunction (SSM) Report is also enclosed. The Combined Title V Semi-Annual and Partial 8-34 Annual Report satisfies the requirements of the Title V Permit listed in Title V Permit Condition Number 6188 Part 22 and Standard Condition I.F.

Based on information and belief formed after reasonable inquiry, I certify under penalty of law that the statements included in this report are true, accurate, and complete.

Sincerely,  
Guadalupe Rubbish Disposal Co., Inc.

*Paul Enrique Perez*

Enrique Perez  
District Manager

Attachments:  
Combined Title V Semi-Annual and Partial 8-34 Annual Report

**Combined Title V Semi-Annual and  
Partial 8-34 Annual Report  
For the Guadalupe Rubbish Disposal Co., Inc.  
15999 Guadalupe Mines Road  
San Jose, California 95120  
Facility Number A3294**

**October 1, 2021, through March 31, 2022**

Submitted on:  
April 27, 2022

Prepared for  
Guadalupe Recycling & Disposal Facility  
15999 Guadalupe Mines Road  
San Jose, California 95120

For Submittal to:  
The Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, CA 94105

And

The United States Environmental Protection Agency, Region IX  
75 Hawthorne Street  
San Francisco, CA 94105

Prepared by



# CONTENTS

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<b>1 INTRODUCTION .....</b>	<b>1</b>
1.1 Purpose .....	1
1.2 Record Keeping and Reporting .....	1
<b>2 COMBINED MONITORING REPORT .....</b>	<b>2</b>
2.1 Collection System Operation (BAAQMD 8-34-501.1 & §60.757(f)(4)) .....	3
2.1.1 Collection System Downtime .....	3
2.1.2 Well Start-Up & Disconnection Log.....	4
2.2 Emission Control Device Downtime (BAAQMD 8-34-501.2 & §60.757(f)(3)) .....	4
2.2.1 LFG Bypass Operations (§60.757(f)(2)) .....	4
2.2.2 Key Emission Control Operating Parameters (BAAQMD 8-34-501.11 & 8-34-509).....	4
2.3 Temperature Monitoring Results (BAAQMD 8-34-501.3, 8-34-507, & §60.757(f)(1)).....	5
2.4 Monthly Cover Integrity Monitoring (BAAQMD 8-34-501.4) .....	5
2.5 Less Than Continuous Operation (BAAQMD 8-34-501.5) .....	5
2.6 Surface Emissions Monitoring (BAAQMD 8-34-501.6, 8-34-506, & §60.757(f)(5)) .....	5
2.7 Component Leak Testing (BAAQMD 8-34-501.6 & 8-34-503) .....	6
2.8 Waste Acceptance Records (BAAQMD 8-34-501.7) .....	6
2.9 Non-degradable waste acceptance records (BAAQMD 8-34-501.8).....	7
2.10 Wellhead Monitoring Data (BAAQMD 8-34-501.4 & 8-34-505).....	7
2.10.1 Wellhead Deviations (BAAQMD 8-34-501.9 & §60.757(f)(1)) .....	7
2.10.2 Higher Operating Value (HOV) Wells .....	7
2.11 Gas Flow Monitoring Results (BAAQMD 8-34-501.10, 8-34-508, & §60.757(f)(1)) .....	8
2.12 Compliance with §60.757(f)(6) .....	8
2.13 Compliance with Title V Permit Condition Number 6188, Part 19 and 20 .....	8
2.14 Compliance with Title V Permit Condition Number 25537 for S-24 .....	9
2.15 Compliance with Title V Permit Condition Number 7649 for S-5.....	9
2.16 Compliance with Title V Permit Condition Number 7650 for S-6.....	9
2.17 Compliance with Title V Permit Condition Number 18258 for S-18.....	9
<b>3 PERFORMANCE TEST REPORT SUMMARY .....</b>	<b>10</b>
3.1 Flare (A-9) Compliance Demonstration Test Results (BAAQMD 8-34-412).....	10
3.2 Compliance with §60.757(g)(1) .....	12
3.3 Compliance with §60.757(g)(2). .....	12
3.3.1 Demonstrating Compliance with §60.757(g)(2).....	12
3.4 Compliance With §60.757(g)(3) .....	13
3.5 Compliance With §60.757(g)(4) .....	13
3.6 Compliance With §60.757(g)(5) .....	13
3.7 Compliance with §60.757(g)(6) .....	13
3.7.1 Demonstrating Compliance with §60.757(g)(6).....	14
<b>4 STARTUP, SHUTDOWN, MALFUNCTION (SSM) PLAN .....</b>	<b>15</b>
4.1 SSM Log for the GCCS at the GRDF .....	15

## **List of Tables**

- Table 2-1 – Combined Report Requirements
- Table 2-2 – Waste Acceptance
- Table 2-3 – Total LFG Flow
- Table 2-4 – Well Actions
- Table 3-1 – Performance Test Requirements
- Table 3-2 – Flare Compliance Demonstration Test Results

## **List of Appendices**

- Appendix A – Site Map
- Appendix B – GCCS Downtime Report
- Appendix C – BAAQMD Correspondence
- Appendix D – Well SSM Log
- Appendix E – Flare SSM Log
- Appendix F – Temperature Deviation/ Inoperative Monitor/ Missing Data Report
- Appendix G – Cover Integrity Monitoring Reports
- Appendix H – Surface Emissions Monitoring Reports
- Appendix I – Monthly Solid Waste Placement Totals
- Appendix J – Wellfield Monitoring Logs
- Appendix K – Wellfield Deviation Log
- Appendix L – Monthly Landfill Gas Flow Rates
- Appendix M – Gas Migration Monitoring Reports
- Appendix N – Performance Test Results Summary

# 1 INTRODUCTION

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## 1.1 Purpose

This document is a Combined Semi-Annual Title V and Partial 8-34 Annual Report for the Guadalupe Recycling & Disposal Facility (GRDF) pursuant to Title V Permit Standard Condition 1.F and Condition Number 6188 Part 22. This report satisfies the requirements of Bay Area Air Quality Management District's (BAAQMD) Regulation 8, Rule 34, Section 411 and Title 40 Code of Federal Regulations (CFR) Part 60 Subpart WWW, New Source Performance Standards (NSPS) for municipal solid waste (MSW) landfills. This Combined Report meets the requirements of Title V Standard Condition 1.F, BAAQMD Rule 8-34-411 and 40 CFR §60.757(f) and covers compliance activities conducted from October 1, 2021, through March 31, 2022. During the timeframe included in this report from October 1, 2021, through March 31, 2022, the site also began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA (effective September 27, 2021) for wellhead temperature and pressure standards. This Combined Report also includes the Semi-Annual Report of Start-up, Shutdown, and Malfunction (SSM) Plan activities pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 63, Subpart AAAA for Landfills.

Section 2 of this Combined Report contains the elements required to satisfy both BAAQMD 8-34-411 and 40 CFR §60.757(f). A Performance Test Report for the A-9 Flare that meets the requirements of both BAAQMD Rule 8-34-413 and 40 CFR §60.758(g) was submitted to the BAAQMD on June 24, 2020, and results of the test are included in Appendix N of this Combined Report. Section 3 of this Combined Report includes a discussion of the data from the most recent Performance Test on A-9 Flare, which was conducted on April 29, 2020, in compliance with BAAQMD Rule 8-34-412 and Title V Permit Condition Number 6188, Part 14. Initial Performance Test Report for the Flare A-17 (previously designated as A-14) that meets the requirements of both BAAQMD Rule 8-34-413 and 40 CFR §60.758(g) was submitted to the BAAQMD on April 9, 2021, and summary of test results are included in Appendix N of this Combined Report. Section 3 of this Combined Report includes a discussion of the data from the Performance Test on A-17 Flare, which was conducted on February 18, 2021, in compliance with BAAQMD Rule 8-34-412 and Title V Permit Condition Number 6188, Part 14. The 2022 Annual Performance Test Report for the Flare A-17 that meets the requirements of both BAAQMD Rule 8-34-413 and 40 CFR §60.758(g) was submitted to the BAAQMD on April 8, 2022. Section 4 of this Combined Report includes the Semi-Annual Report of the SSM Plan activities pursuant to the NESHAP, 40 CFR Part 63, Subpart AAAA for Landfills.

## 1.2 Record Keeping and Reporting

Records are maintained and available for inspection in accordance with BAAQMD Rule 8-34-501.12 and 40 CFR §60.758. The primary location for records storage is at the GRDF. Records are maintained at this location for a minimum of five years.

## 2 COMBINED MONITORING REPORT

In accordance with Title V Permit Standard Condition 1.F, BAAQMD Rule 8-34-411 and §60.757(f) in the NSPS, this report is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report that is required to be submitted by the GRDF. The report contains monitoring data for the operation of the landfill gas collection and control system (GCCS). The operational records have been reviewed and summarized. The timeframe included in this report is October 1, 2021, through March 31, 2022. The following table lists the rules and regulations that are required to be included in this Combined Report.

**Table 2-1 Combined Report Requirements**

RULE	REQUIREMENT	LOCATION IN REPORT
8-34-501.1 §60.757(f)(4)	All collection system downtime, including individual well shutdown times and the reason for the shutdown.	Section 2.1, Appendices B, D, & E
8-34-501.2 §60.757(f)(3)	All emission control system downtime and the reason for the shutdown.	Section 2.2, Appendices B & E
8-34-501.3, 8-34-507, §60.757(f)(1)	Continuous temperature for all operating flares and any enclosed combustor subject to Section 8-34-507.	Section 2.3, Appendix F
8-34-501.4, 8-34-505, 8-34-510	Testing performed to satisfy any of the requirements of this rule.	Section 2.4 & 2.10 Appendices G & J
8-34-501.5	Monthly landfill gas flow (LFG) rates and well concentration readings for facilities subject to 8-34-404.	Section 2.5, 2.11 Appendix L
8-34-501.6, 8-34-503, 8-34-506, §60.757(f)(5)	For operations subject to Section 8-34-503 and 8-34-506, records of all monitoring dates, leaks in excess of the limits in Section 8-34-301.2 or 8-34-303 that are discovered by the operator, including the location of the leak, leak concentration in parts per million by volume (ppmv), date of discovery, the action taken to repair the leak, date of the repair, date of any required re-monitoring, and the re-monitored concentration in ppmv.	Section 2.6 & 2.7, Appendix H
8-34-501.7	Annual waste acceptance rate and current amount of waste in-place.	Section 2.8 Appendix I
8-34-501.8	Records of the nature, location, amount, and date of deposition of non-degradable wastes, for any landfill areas excluded from the collection system requirement as documented in the GCCS Design Plan.	Section 2.9

RULE	REQUIREMENT	LOCATION IN REPORT
8-34-501.9, 8-34-505, §60.757(f)(1)	For operations subject to Section 8-34-505, records of all monitoring dates and any excesses of the limits stated in Section 8-34-305 that are discovered by the operator, including well identification number, the measured excess, the action taken to repair the excess, and the date of repair.	Section 2.10, 2.10.1, Appendices J & K
8-34-501.10, 8-34-508, §60.757(f)(1)	Continuous gas flow rate records for any site subject to Section 8-34-508.	Section 2.11, Appendices F and L
8-34-501.11, 8-34-509	For operations subject to Section 8-34-509, records or key emission control system operating parameters.	Section 2.2.2
8-34-501.12	The records required above shall be made available and retained for a period of five years.	Section 1.2
§60.757(f)(2)	Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under §60.756.	Section 2.2.1
§60.757(f)(6)	The date of installation and the location of each well or collection system expansion added pursuant to paragraphs (a)(3), (b), (c)(4) of §60.755.	Section 2.12
§60.10 (d)(5)(i)	Startup, Shutdown, Malfunction Events	Section 4.0, Appendices D & E
§63	Subpart AAAA	Section 2.10

## 2.1 Collection System Operation (BAAQMD 8-34-501.1 & §60.757(f)(4))

Appendix A contains a current map of the GRDF's existing GCCS. Section 2.1.1 includes the GCCS downtime for the reporting period. The information contained in Section 2.1.2 includes the wellfield SSM information.

### 2.1.1 Collection System Downtime

During the period covered in this report, the GCCS was not shut down for more than five days on any one occasion. Downtime for 2021 calendar year from January 1, 2021, through December 31, 2021, was 70.4 hours, out of an allowable 240 hours per year. The partial total downtime for the reporting period of October 1, 2021, through March 31, 2022, was 70.1 hours.

Appendix B contains the GCCS Downtime Report which lists dates, times, and lengths of shutdowns for the reporting period and year-to-date.

### **2.1.2 Well Start-Up & Disconnection Log**

There were eight (8) wellfield SSM events during the reporting period. See Appendix D, Wellfield SSM Log for details of well disconnection and reconnection events.

## **2.2 Emission Control Device Downtime (BAAQMD 8-34-501.2 & §60.757(f)(3))**

GRDF flare (A-9) began operation in August 2003 and was operated in conjunction with flare (A-14), which started initial operation in November 2016. The stack on flare A-14 was then replaced with a new stack in October 2020. Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17. The control system was not bypassed at any time during the reporting period. Raw LFG was not emitted during the reporting period. The SSM logs for the flare A-9 and flare A-17 are located in Appendix E. As indicated in Section 2.1.1, the total downtime for 2021 calendar year from January 1, 2021, through December 31, 2021, was 70.4 hours, out of an allowable 240 hours per year. The total downtime for the reporting period of October 31, 2021, through March 31, 2022, was 70.1 hours. The GCCS Downtime Log for the reporting period is included in Appendix B.

During the reporting period, BAAQMD issued GRDF Notice of Violation (“NOV”) Number A-59781 dated December 8, 2021, for alleged temporary flare shutdown event caused by unplanned utility power outage on October 20 and 22, 2021. KCRDF submitted the request for Breakdown Relief from BAAQMD for the October 20 and 22, 2021, PG&E unplanned power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification forms submitted on October 21 and 22, 2021, and was assigned RCA numbers 08C52 and 08C55. GRDF submitted the 10-day NOV response on December 14, 2021; 30-day follow-up report for breakdown relief on November 12, 2021; and Title V 10-day and 30-day letter on October 29, 2021. Copies of submitted letters are included in Appendix C.

### **2.2.1 LFG Bypass Operations (§60.757(f)(2))**

Title 40 CFR §60.757(f)(2) is not applicable at the GRDF because a by-pass line has not been installed. LFG cannot be diverted from the control equipment.

### **2.2.2 Key Emission Control Operating Parameters (BAAQMD 8-34-501.11 & 8-34-509)**

BAAQMD Regulation 8-34-501.11 and 8-34-509 are not applicable to the A-9 and A-17 Flares because the A-9 and A-17 Flares are subject to continuous temperature monitoring as required in BAAQMD Regulation 8-34-507 and §60.757(f)(1).



### **2.3 Temperature Monitoring Results (BAAQMD 8-34-501.3, 8-34-507, & §60.757(f)(1))**

The combustion zone temperature of the flare is monitored with Thermo-Electric Thermocouples. The temperature is displayed and recorded every two minutes with a Yokogawa FX1000 digital recorder on flare A-9 and Yokogawa DX1000 digital recorder on flare A-17. There were no temperature deviations during the reporting period that were below the permit limit of 1,593 Degree F and 1,449 Degree F for flare A-9 and flare A-17. Appendix F contains the Flare Temperature Deviation/ Inoperative Monitor/Missing Data Report for October 1, 2021, through March 31, 2022.

### **2.4 Monthly Cover Integrity Monitoring (BAAQMD 8-34-501.4)**

The cover integrity monitoring was performed on the following dates:

- October 27, 2021
- November 26, 2021
- December 28, 2021
- January 26, 2022
- February 24, 2022
- March 29, 2022

During December 2021 monthly monitoring event, four locations with surface cracks were identified. The corrective actions were completed on January 20, 2022, by adding soil and compacting. No other breaches of cover integrity (e.g. cover cracks or exposed garbage) were found during the reporting period. The Monthly Cover Integrity Monitoring reports are included in Appendix G.

### **2.5 Less Than Continuous Operation (BAAQMD 8-34-501.5)**

The GRDF does not operate under BAAQMD Regulation 8-34-404 (Less Than Continuous Operation) and, therefore, is not required to submit monthly LFG flow rates.

### **2.6 Surface Emissions Monitoring (BAAQMD 8-34-501.6, 8-34-506, & §60.757(f)(5))**

Quarterly Surface Emissions Monitoring (SEM), pursuant to BAAQMD Regulation 8-34-506 occurred during the reporting period on the following dates:

- Fourth Quarter 2021 – November 12, 2021
- First Quarter 2022 – February 9, 2022

A Photovac Micro Flame Ionization Detector (FID) was used to monitor the path along the landfill surface according to the Landfill Surface Emissions Monitoring Plan map. Any areas suspected of having emissions problems based on visible observations were also monitored. Prior to both monitoring events, the FID instrument was zeroed and

calibrated using zero air and 500 parts per million by volume (ppmv) methane calibration gas.

The Initial monitoring event for the Fourth Quarter 2021 SEM was conducted by Roberts Environmental Services (RES) on November 12, 2021, identifying 6 exceedance locations. GRDF personnel performed the ten-day re-monitoring on November 19, 2021. GRDF personnel performed the thirty-day follow-up monitoring event on December 6, 2021. No exceedances were observed during the 30-day re-monitoring events. Detailed monitoring results are available in the Fourth Quarter 2021 SEM Report, included in Appendix H.

The Initial monitoring event for the First Quarter 2022 SEM was conducted by Roberts Environmental Services (RES) on February 9, 2022, identifying 4 exceedance locations. GRDF personnel performed the first ten-day re-monitoring on February 10, 2022, with no exceedance identified. GRDF personnel performed the thirty-day follow-up monitoring event on March 2, 2022. No exceedances were observed during the 30-day re-monitoring events. Detailed monitoring results are available in the First Quarter 2022 SEM Report, included in Appendix H.

## **2.7 Component Leak Testing (BAAQMD 8-34-501.6 & 8-34-503)**

Quarterly component leak testing, pursuant to BAAQMD Regulation 8-34-503, occurred during the reporting period on the following dates:

- Fourth Quarter 2021 - November 12, 2021
- First Quarter 2022 - February 9, 2022

A TVA was used to perform the leak testing. No exceedances were identified during the reporting period. Appendix H contains the Quarterly LFG Component Leak Monitoring Reports.

## **2.8 Waste Acceptance Records (BAAQMD 8-34-501.7)**

The Annual Waste Acceptance Rate was compiled for the timeframe of October 1, 2021 through March 31, 2022. The Current Waste-In-Place figure includes waste placed through the end of this reporting period. Below is a summary of the waste acceptance records for the reporting period. A table of monthly totals for the reporting period is provided in Appendix I.

**Table 2-2 Waste Acceptance**

<b>Description</b>	<b>Total Waste Landfilled (Decomposable)</b>
Total Waste Acceptance October 1, 2021, through March 31, 2022	54,548
Current Waste In Place as March 31, 2022	Approximately 9.93 Million tons

## **2.9 Non-degradable waste acceptance records (BAAQMD 8-34-501.8)**

The GCCS Design Plan for the GRDF does not indicate non-degradable waste areas that are excluded from the collection system. Therefore, BAAQMD Regulation 8-34-501.8 is not applicable.

## **2.10 Wellhead Monitoring Data (BAAQMD 8-34-501.4 & 8-34-505)**

Wellhead monitoring was performed on a monthly basis pursuant to 8-34-505. Effective September 27, 2021, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. No wellhead monitoring was conducted during September 27 through September 30, 2021. The well readings for October 1, 2021, through March 31, 2022, are included in Appendix J. Each well was monitored in accordance with the following requirements:

- 8-34-305.1 – Each wellhead shall operate under a vacuum;
- 8-34-305.2 – The LFG temperature in each wellhead shall be less than 55 degrees Celsius (°C) (131 degrees Fahrenheit [°F]); and
- 8-34-305.4 – The oxygen concentration in each wellhead shall be less than 5 percent by volume.

The wellhead monitoring was performed on the following dates:

- October 5, 6, 7, 8, 11, 12, and 13, 2021
- November 1, 2, 3, 4, 8, 9, 10, 15, and 18, 2021
- December 1, 2, 3, 6, 10, 14, 15 and 16, 2021
- January 4, 5, 6, 10, 11, 12, and 13, 2022
- February 2, 3, 4, and 7, 2022
- March 10, 14, 15, and 16, 2022

### **2.10.1 Wellhead Deviations (BAAQMD 8-34-501.9 & §60.757(f)(1))**

There were eight (8) well deviations with readings that exceeded limits per BAAQMD Regulation 8-34-305 during the reporting period. During this reporting period, there were no additional exceedances associated with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. All exceedances were corrected within 120-days. See Appendix K, Wellfield Deviation Log, for more detail.

### **2.10.2 Higher Operating Value (HOV) Wells**

As of March 31, 2022, the following list of wells are approved to operate at a temperature HOV of 145°F: Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218.

**2.11 Gas Flow Monitoring Results (BAAQMD 8-34-501.10, 8-34-508, & §60.757(f)(1))**

The flare LFG flow rate was measured with a dedicated Kurz MFT-B flow meter at both the flares. The General Electric data panel displays the LFG flow and the digital Yokogawa data recorder records LFG flow every two minutes and is downloaded and saved to a compact flash card. The flare flow meters meet the requirements of BAAQMD Regulation 8-34-508 by recording data at least every 15 minutes. The flow meter is maintained and calibrated pursuant to manufacturer’s recommendations. The flow data for the flare is available for review at the GRDF. Appendix L contains a summary of the monthly LFG flow rates for the flare. Appendix F contains the Flare Temperature Deviation/ Inoperative Monitor/Missing Data Report for October 1, 2021, through March 31, 2022.

Table 2-3 below is a summary of the total LFG flow for the reporting period of October 1, 2021, through March 31, 2022.

**Table 2-3 Total LFG Flow for October 1, 2021, through March 31, 2022**

<b>Emission Control Device</b>	<b>Average Flow (scfm)</b>	<b>Average CH<sub>4</sub> (%)*</b>	<b>Total LFG Volume (scf)</b>	<b>Total CH<sub>4</sub> Volume (scf)</b>	<b>Heat Input (MMBTU)</b>
A-9 Flare	0.0	49.9	0.0	0.0	0.0
A-17 Flare	1,660	40.4	427,780,727	172,973,137	175,222

scfm = standard cubic feet per minute

CH<sub>4</sub> = methane

scf = standard cubic feet

\*Methane content determined from April 29, 2020, Source Test on Flare A-9.

\*Methane content determined from February 18, 2021, Source Test on Flare A-17.

MMBTU = million British thermal units

**2.12 Compliance with §60.757(f)(6)**

*“The date of installation and the location of each well or collection system expansion added pursuant to (a)(3), (b), (c)(4) of §60.755.”*

The GCCS was modified pursuant to Title V Permit Condition Number 6188 Part 2 as modified by the Permit to Operate (PTO) Condition Number 28011, during the reporting period. No wells were decommissioned or started during the reporting period.

As of March 31, 2022, the GRDF has a total 87 collectors, (85 vertical wells and 2 horizontal Leachate collectors). See Appendix C, for copies of the Notification Letters.

**2.13 Compliance with Title V Permit Condition Number 6188, Part 19 and 20**

Contaminated soil containing volatile organic compounds (VOCs) greater than 50 ppm<sub>v</sub> was not received during the reporting period. A total of 0.0 tons of Low-VOC soil

(containing less than 50 ppm of VOCs) was received during the reporting period. Condition Number 6188, Part 19 of the Title V Permit requires that GRDF limit the quantity of low VOC-laden soil handled per day so that no more than 15 pounds of total carbon could be emitted to the atmosphere per day. GRDF was in compliance with this requirement during the reporting period. All records required by the permit are available onsite.

#### **2.14 Compliance with Title V Permit Condition Number 25537 for S-24**

For Source S-24, Construction & Demolition Debris Stockpile, the total construction and demolition debris accepted at S-24 in any consecutive 12-month period is limited to 200,000 tons and the combined amount processed is 2,500 tons per day. During the reporting period, the site did not exceed the permitted annual and daily limits. Required records are available for review at the GRDF.

#### **2.15 Compliance with Title V Permit Condition Number 7649 for S-5**

For Source S-5, Wood Debris Stockpile, during the reporting period, the operation did not operate for over 12 hours within any consecutive 24-hours. Required records are available for review at the GRDF.

#### **2.16 Compliance with Title V Permit Condition Number 7650 for S-6**

For Source S-6, Shredded Storage Stockpiles and Loadout, during the reporting period, the operation did not operate for over 12 hours within any consecutive 24-hours. Required records are available for review at the GRDF.

#### **2.17 Compliance with Title V Permit Condition Number 18258 for S-18**

For Source S-18, Materials Recovery Operation, the total throughput did not exceed 900 tons per day average, based on a calendar month. Required records are available for review at the GRDF.

### 3 PERFORMANCE TEST REPORT SUMMARY

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In accordance with BAAQMD Rule 8-34-413 and 40 CFR §60.757(g) in the NSPS, a Performance Test Report is required to be submitted from subject facilities containing performance and monitoring data for the operation of the GCCS. The operational records listed in Table 3-1 have been reviewed, summarized, and are included in the Performance Test Report section of this report.

**Table 3-1 Performance Test Requirements**

Rule	Requirement	Location in Report
8-34-412, §60.8, §60.752(b)(2)(iii)(B), §60.754(d)	Compliance Demonstration Test	Section 3.1
§60.757(g)(1)	A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for future collection system expansion.	Section 3.2, Appendix A
§60.757(g)(2)	The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.	Section 3.3
§60.757(g)(3)	The documentation of the presence of asbestos or non-degradable material for each area from which collection wells have been excluded based on the presence of asbestos or non-degradable material.	Section 3.4
§60.757(g)(4)	The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on non-productivity and the calculations of gas generation flow rate for each excluded area.	Section 3.5
§60.757(g)(5)	The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill.	Section 3.6
§60.757(g)(6)	The provisions for the control of off-site migration.	Section 3.7 Appendix M

#### **3.1 Flare (A-9) Compliance Demonstration Test Results (BAAQMD 8-34-412)**

The Compliance Demonstration Test (Performance Test) was performed on the A-9 Flare by Blue Sky Environmental, Inc. on April 29, 2020, pursuant to BAAQMD Regulation 8-34-412. Two sets of three runs were conducted, one set without condensate injection running and one set with condensate injection running. The final test report was submitted on June 24, 2020.

As required by BAAQMD Regulation 8-34-301.3, the A-9 Flare meets the non-methane organic compound (NMOC) emission concentration of less than 30 ppm<sub>v</sub>. Pursuant to Title V Permit Condition Number 6188 Part 9, the A-9 Flare meets the nitrogen oxide (NO<sub>x</sub>) emission concentration of less than 16 ppm<sub>v</sub>. Also, the A-9 Flare meets the carbon monoxide (CO) emission concentration of less than 134 ppm<sub>v</sub> pursuant to the Title V Permit Condition Number 6188, Part 10. The old Flare A9 was shutdown starting November 2020 since Flare A17 is equipped to handle the maximum flow rate expected over the life of the landfill.

The stack on flare A-14 was replaced with a new stack in October 2020. Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17. The Initial Compliance Demonstration Test was performed on the A-17 Flare by Blue Sky Environmental, Inc. on February 18, 2021, pursuant to BAAQMD Regulation 8-34-412. Results indicate that the flare A-17 was in compliance with BAAQMD Regulation 8-34-301.3 and all conditions in the authority to construct. As required by BAAQMD Regulation 8-34-301.3, the A-17 Flare meets the non-methane organic compound (NMOC) emission concentration of less than 30 ppm<sub>v</sub>. The A-17 Flare meets the nitrogen oxide (NO<sub>x</sub>) emission concentration of less than 15 ppm<sub>v</sub>. Also, the A-17 Flare meets the carbon monoxide (CO) emission concentration of less than 81 ppm<sub>v</sub>.

Table 3-2 shows the results of the A-9 Flare Performance Test, averaged from each set of three test runs. Table 3-3 shows the results of the A-17 Flare Performance Test, averaged from each set of three test runs. A summary of this Performance Test Results can be found in Appendix N.

**Table 3-2 Flare Compliance Demonstration Test Results- Test Data April 29, 2020**

Condition	Flare (A-9) (Condensate Off) Average Results	Flare (A-9) (Condensate On) Average Results	8-34-301.3 limit	Compliance Status
NMOC (either 98% DRE or 30 ppm @ 3% O <sub>2</sub> )	<0.5 ppm	<1.6 ppm	30 ppm	In Compliance
NO <sub>x</sub> (ppm @ 15% O <sub>2</sub> )	8.4	9.5	16	In Compliance
CO (ppm @ 15% O <sub>2</sub> )	<3.3	<3.4	134	In Compliance

**Table 3-3 Flare Initial Compliance Demonstration Test Results- Test Data  
February 18, 2021**

<b>Condition</b>	<b>Flare (A-17) (Condensate Off) Average Results</b>	<b>Flare (A-17) (Condensate On) Average Results</b>	<b>8-34-301.3 limit</b>	<b>Compliance Status</b>
NMOC (either 98% DRE or 30 ppm @ 3% O <sub>2</sub> )	<2.6 ppm	<5.79 ppm	30 ppm	In Compliance
NO <sub>x</sub> (ppm @ 15% O <sub>2</sub> )	10.3	13.3	15	In Compliance
CO (ppm @ 15% O <sub>2</sub> )	2.5	1.24	81	In Compliance

*\*Flare A-14 Stack was replaced in October 2020. The new flare designation will be flare A-17.*

### **3.2 Compliance with §60.757(g)(1)**

*“A diagram of the collection system showing collection system positioning including wells, horizontal collectors...”*

A map of the LFG collection system showing the location of all vertical wells, horizontal collectors, and other LFG extraction devices is included in Appendix A.

### **3.3 Compliance with §60.757(g)(2).**

*“The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.”*

The GRDF GCCS has historically provided LFG wells and collectors spaced in accordance with standard industry practice. The GCCS systems are adequate to move the current LFG flow rate. GRDF will continue to add additional LFG control capacity as necessary with the approval of BAAQMD. The installed collector density appears adequate for controlling surface emissions, based on continuous compliance and operational experience.

The total capacity of the LFG mover equipment was designed and will be designed to meet the current United States Environmental Protection Agency (USEPA) Model AP-42 projections of LFG generation and the historic LFG extraction rates determined to be continuously available from the facility.

#### **3.3.1 Demonstrating Compliance with §60.757(g)(2)**

*“The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based.”*



Compliance with 40 CFR §60.757(g)(2) is maintained by performing quarterly SEM. Refer to Section 2.6, Surface Emissions Monitoring for information pertaining to the SEM results. These results show that the GCCS has sufficient coverage over the waste footprint. The current GCCS has the capacity to handle the actual recovery. Well monitoring data shows that adequate vacuum is available at all points in the wellfield, demonstrating that the piping network is sufficient to handle extracted LFG.

### **3.4 Compliance With §60.757(g)(3)**

*“The documentation of the presence of asbestos or non-degradable material for each area from which collection wells have been excluded based on the presence of asbestos or non-degradable material.”*

Segregated areas or accumulations of asbestos material were not documented for the site in the GCCS Design Plan. Therefore, §60.757(g)(3) is not applicable.

### **3.5 Compliance With §60.757(g)(4)**

*“The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on non-productivity and the calculations of gas generation flow rate for each excluded area.”*

The site does not contain non-productive areas that have been excluded from the coverage of the GCCS. Therefore, §60.757(g)(4) is not applicable.

### **3.6 Compliance With §60.757(g)(5)**

*“The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill.”*

The current GCCS has the capacity to handle LFG flow rates for future.

### **3.7 Compliance with §60.757(g)(6)**

*“The provisions for the control of off-site migration.”*

Quarterly LFG migration monitoring, including all on-site buildings, occurred on the following dates:

- Fourth Quarter 2021 – December 21, 2021
- First Quarter 2022- March 17, 2022

The LFG migration monitoring results for the quarterly events are included in Appendix M.

### **3.7.1 Demonstrating Compliance with §60.757(g)(6)**

*“The provisions for the control of off-site migration.”*

The Landfill operator will continue surface and perimeter monitoring in accordance with the approved monitoring plans. If the GCCS at the Landfill does not meet the measures of performance set forth in the NSPS, the GCCS will be adjusted or modified in accordance with the NSPS requirements.

## 4 STARTUP, SHUTDOWN, MALFUNCTION (SSM) PLAN

---

### 4.1 SSM Log for the GCCS at the GRDF

The NESHAP contained in 40 CFR Part 63, AAAA for MSW landfills to control hazardous air pollutants include the regulatory requirements for submittal of a semi-annual report (under 40 CFR §63.10(d)(5) of the general provisions) if an SSM event occurred during the reporting period. The reports required by §63.1980(a) of the NESHAP and §60.757(f) of the NSPS summarize the GCCS exceedances. These two semi-annual reports contain similar information and have been combined as allowed by §63.10(d)(5)(i) of the General Provisions.

NESHAP 40 CFR part 63, AAAA became effective on January 16, 2004. Those SSM events that occurred during the NSPS semi-annual reporting period are reported in this section (October 1, 2021, through March 31, 2022). The following information is included as required:

- During the reporting period, eight (8) Wellfield SSM events occurred. Details are included in Appendix D, Well SSM Log.
- During the reporting period, zero (0) A-9 Flare SSM events occurred. The A-9 Flare did not operate during the reporting period due to the reasons noted in Appendix E, Flare SSM Log.
- During the reporting period, fifty-two (52) A-17 Flare (formerly designated as Flare A-14) Flare SSM events occurred. The A-17 Flare was shut down and restarted during the reporting period due to the reasons noted in Appendix E, Flare SSM Log.
- During the reporting period, zero (0) monitoring/recorder equipment SSM events occurred. Details are included in Appendix F, Temperature Deviation/Inoperative Monitor/Missing Data Report.
- There were sixty (60) events in total. In all events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan. There were no deviations from the SSM plan.
- Exceedances were not identified during the reporting period in any applicable emission limitation in the landfills NESHAP (§63.10(d)(5)(i)).
- Revisions of the SSM Plan to correct deficiencies in the landfill operations or procedures were neither required, nor prepared (§63.6(e)(3)(viii)).

***I certify the following:***

***Based on information and belief formed after reasonable inquiry, information on the startup, shutdown, malfunction forms, all accompanying reports, and other required certifications are true, accurate, and complete.***

*Paul Enrique Perez*

4/19/2022

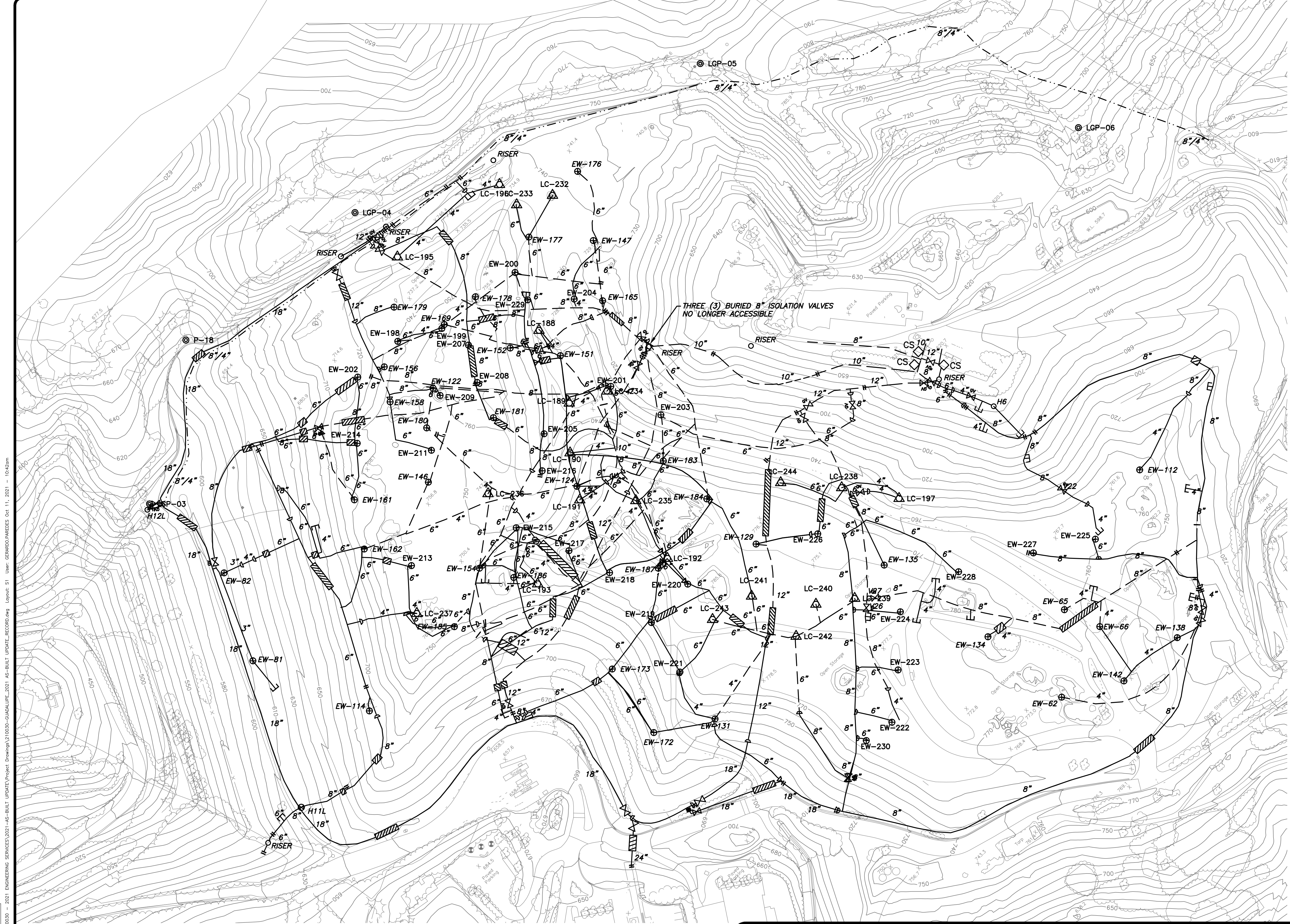
\_\_\_\_\_  
**Signature of Responsible Official**

\_\_\_\_\_  
**Date**

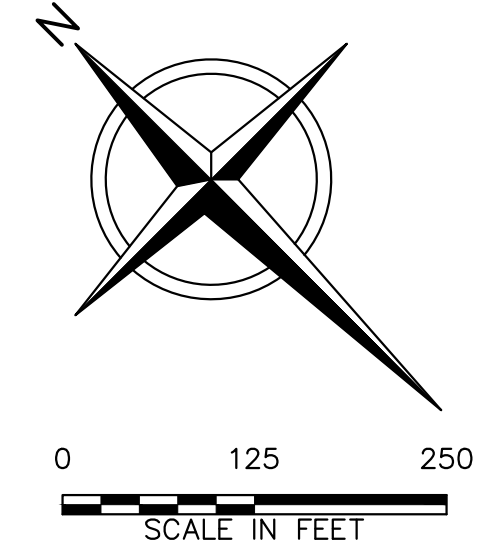
\_\_\_\_\_  
**Name of Responsible Official**

## **APPENDIX A**

### **SITE MAP**



- LEGEND**
- — — — — PROPERTY BOUNDARY
  - 1400 — EXISTING 10' CONTOUR
  - 12" — EXISTING ABOVEGROUND PIPING
  - 12" — EXISTING BELOWGROUND PIPING
  - 8"/4" — INSTALLED LEACHATE PIPING
  - — — — — EXISTING HORIZONTAL COLLECTOR
  - ⊕ EW-3 EXISTING LFG EXTRACTION WELL
  - ⊕ EXISTING REMOTE WELLHEAD
  - ⊕ LGP-04 ⊕ P-18 EXISTING PROBE
  - ⊕ H6 ⊕ EW-H15 EXISTING HORIZONTAL COLLECTOR WELLHEAD
  - △ LC-190 EXISTING LOCAL CONTROL WELL
  - ⊕ EXISTING LOCAL VALVE
  - ⊕ EXISTING BLIND FLANGE
  - ⊕ EXISTING FLANGE CONNECTION
  - ⊕ EXISTING REDUCER FITTING
  - ▨ EXISTING ROAD CROSSING
  - ◇ CS- EXISTING CONDENSATE SUMP
  - RISER EXISTING RISER
  - ⊔ EXISTING CAP ON EXISTING PIPE



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: MARCH 26, 2021. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
  2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
  3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
  4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
  5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
  8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021 AND AUGUST 21, 2021.

File: A:\PROJECTS\GUADALUPE\210030 - 2021 ENGINEERING SERVICES\2021-AS-BUILT UPDATE\Drawings\210030-GUADALUPE\_2021-AS-BUILT UPDATE\_RECORD.dwg Layout: S1 User: GEARADO-PAREDES Oct 11, 2021 - 10:42am



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	10/11/21					



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
**2021 GCCS IMPROVEMENTS**  
**AS-BUILT SITE PLAN**

SHEET NO.  
**1**  
 PROJECT NO.  
 210030

**RECORD DRAWINGS**

## **APPENDIX B**

### **GCCS DOWNTIME REPORT**

**LFG Collection System: October 1, 2021 through December 31, 2021**

**2021 (Partial) GCCS DOWNTIME LOG**

**GUADALUPE RECYCLING & DISPOSAL FACILITY, San Jose, CA**

<b>SHUTDOWN DATE/ TIME</b>	<b>START-UP DATE/ TIME</b>	<b>TOTAL DOWNTIME (HOURS)</b>	<b>COMMENTS OR REASONS</b>
10/20/21 17:40	10/21/21 11:24	17.73	Flare shutdown during PG&E power outage. RCA was filed and RCA No. 08C52 was assigned. Flare was inspected and restarted.
10/22/21 05:58	10/22/21 13:10	7.20	Flare shutdown during PG&E power outage. Amended RCA was filed and RCA No. 08C55 was assigned. Flare was inspected and restarted.
10/25/21 04:24	10/25/21 05:36	1.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 05:42	10/25/21 06:00	0.30	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 06:02	10/25/21 06:24	0.37	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 06:26	10/25/21 06:44	0.30	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 06:48	10/25/21 09:12	2.40	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 09:16	10/25/21 09:44	0.47	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 09:46	10/25/21 11:12	1.43	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 11:14	10/25/21 11:44	0.50	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 11:46	10/25/21 14:02	2.27	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 14:10	10/25/21 14:18	0.13	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 14:24	10/25/21 14:36	0.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 14:42	10/25/21 14:58	0.27	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 15:04	10/25/21 15:14	0.17	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 15:20	10/25/21 15:34	0.23	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 15:56	10/25/21 16:10	0.23	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 16:16	10/25/21 16:28	0.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 16:34	10/25/21 17:04	0.50	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.



10/25/21 17:10	10/25/21 17:32	0.37	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 17:40	10/25/21 17:54	0.23	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 18:00	10/25/21 18:26	0.43	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 18:32	10/25/21 18:38	0.10	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 18:44	10/25/21 19:26	0.70	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 19:32	10/25/21 19:38	0.10	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 19:44	10/25/21 19:52	0.13	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 19:58	10/25/21 21:02	1.07	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 21:10	10/25/21 21:22	0.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 21:30	10/25/21 21:38	0.13	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 21:44	10/25/21 22:10	0.43	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 22:18	10/25/21 22:30	0.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/25/21 22:36	10/26/21 10:30	11.90	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/26/21 10:44	10/26/21 10:52	0.13	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
10/26/21 10:58	10/26/21 11:12	0.23	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.
11/24/21 11:40	11/24/21 12:12	0.53	Flare was shutdown to replace VFD and switch blowers. Flare was inspected and restarted.

11/24/21 12:22	11/24/21 12:40	0.30	Flare shutdown during startup sequence. Flare was inspected and restarted.
11/24/21 12:50	11/24/21 12:56	0.10	Flare shutdown during startup sequence. Flare was inspected and restarted.
11/24/21 13:06	11/24/21 13:14	0.13	Flare shutdown during startup sequence. Flare was inspected and restarted.
11/24/21 13:18	11/24/21 13:28	0.17	Flare shutdown during startup sequence. Flare was inspected and restarted.
12/09/21 09:20	12/09/21 09:28	0.13	Flare shutdown due to low temperature alarm during maintenance and inspection on louver. Flare was inspected and restarted.
12/09/21 09:30	12/09/21 10:14	0.73	Flare shutdown due to low temperature alarm during maintenance and inspection on louver. Flare was inspected and restarted.
12/09/21 10:18	12/09/21 10:28	0.17	Flare shutdown due to low temperature alarm during maintenance and inspection on louver. Flare was inspected and restarted.
12/09/21 10:32	12/09/21 10:40	0.13	Flare shutdown due to low temperature alarm during maintenance and inspection on louver. Flare was inspected and restarted.
12/09/21 10:54	12/09/21 10:58	0.07	Flare shutdown due to low temperature alarm during maintenance and inspection on louver. Flare was inspected and restarted.
12/23/21 09:36	12/23/21 11:10	1.57	Flare shutdown during PG&E power outage. RCA was filed and RCA No. 08E36 was assigned. Flare was inspected and restarted.
TOTAL DOWNTIME January 1 through December 31, 2021 (HOURS)		<b>70.43</b>	
TOTAL DOWNTIME October 1, 2021 through December 31, 2021 (HOURS)		<b>56.50</b>	
TOTAL PERMITTED DOWNTIME FOR 1 YEAR (HOURS):		<b>240.0</b>	

LFG Collection System: January 1 through March 31, 2022

2022 GCCS DOWNTIME LOG (Partial)

GUADALUPE RECYCLING & DISPOSAL FACILITY, San Jose, CA

SHUTDOWN DATE/ TIME	START-UP DATE/ TIME	TOTAL DOWNTIME (HOURS)	COMMENTS OR REASONS
01/18/22 08:34	01/18/22 09:28	0.90	Flare A-17 was shutdown during annual flare inspection and maintenance. Flare was inspected and restarted.
01/25/22 10:00	01/25/22 12:36	2.60	Flare A-17 was shutdown during maintenance and repair on Dry Vac. Flare was inspected and restarted.
02/15/22 07:38	02/15/22 07:50	0.20	Flare A-17 shutdown due to low temperature alarm. Flare was inspected and restarted.
02/24/22 07:16	02/24/22 10:08	2.87	Flare A-17 was shutdown during blower maintenance. Seal and bearings were replaced. Flare was inspected and restarted.
02/24/22 10:22	02/24/22 11:40	1.30	Flare A-17 was shutdown during blower maintenance. Seal and bearings were replaced. Flare was inspected and restarted.
03/11/22 07:18	03/11/22 12:52	5.57	Flare A-17 was shutdown during repairs on condensate system part in the stack. Flare was inspected and restarted.
03/11/22 12:54	03/11/22 13:06	0.20	Flare shutdown during startup sequence after repair and maintenance on condensate system. Flare was inspected and restarted.
TOTAL DOWNTIME January 1 through March 31, 2022 (HOURS)-		<b>13.63</b>	
TOTAL PERMITTED DOWNTIME FOR 1 YEAR (HOURS):		<b>240</b>	

**APPENDIX C**  
**BAAQMD Correspondence**



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

October 21, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on October 20, 2021, ~ 5:40 PM. A breakdown report was submitted to Bay Area Air Quality Management District (BAAQMD) on October 20, 2021 at ~9:15 PM via the afterhours phone line by GRDF about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On October 21, 2021 at ~11:50 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~5:40 PM on 10/20/2021	Clear Time	10/21/2021~11:50 AM
Monitor/device type(s)	<input type="checkbox"/> CEM <input type="checkbox"/> GLM <input type="checkbox"/> Parametric <input type="checkbox"/> PRD <input type="checkbox"/> Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> SO <sub>2</sub> <input type="checkbox"/> CO <input type="checkbox"/> CO <sub>2</sub> <input type="checkbox"/> H <sub>2</sub> S <input type="checkbox"/> TRS <input type="checkbox"/> NH <sub>3</sub>		
	<input type="checkbox"/> O <sub>2</sub> <input type="checkbox"/> H <sub>2</sub> O <input type="checkbox"/> Opacity <input type="checkbox"/> Lead <input type="checkbox"/> Gauge Pressure <input type="checkbox"/> Flow		
	<input type="checkbox"/> Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> Temperature <input type="checkbox"/> Wind Speed		
	<input type="checkbox"/> Wind Direction <input type="checkbox"/> Steam <input checked="" type="checkbox"/> Other (describe) Power outage		
Unit(s) of Measurement	Unit(s) of Measurement		
	<input type="checkbox"/> ppm <input type="checkbox"/> ppb <input type="checkbox"/> min/hr > 20% <input type="checkbox"/> inches H <sub>2</sub> O <input type="checkbox"/> mmHg		
	<input type="checkbox"/> psig <input type="checkbox"/> pH <input type="checkbox"/> °Fahrenheit <input type="checkbox"/> Other (describe) Power outage		

#### Event Description:

A breakdown report was submitted on 10/20/2021 at~ 9:15 PM via afterhours phone line by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 10/21/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.





**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

October 22, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Addendum to Reportable Compliance Activity (RCA 08C52) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Addendum Reportable Compliance Activity (RCA) to the previously submitted RCA Form (BAAQMD assigned RCA Number 08C52) for temporary flare shutdown event caused by unplanned utility power interruption on October 20, 2021, ~ 5:40 PM and on October 22, 2021 ~6:00 AM. A breakdown report was submitted to Bay Area Air Quality Management District (BAAQMD) on October 20, 2021 at ~9:15 PM via the afterhours phone line by GRDF about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

The power to the site was restored on October 21, 2021 at ~11:50 AM and on October 22, 2021 at ~1:30 PM and the GCCS was online. The shutdown events were unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: Addendum to RCA Form GRDF Facility A3294



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

ADDENDUM to RCA Number 08C52 (10/21/2021)-  
Submittal 10/22/2021

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~5:40 PM on 10/20/2021; and ~ 6:00 AM on 10/22/2021	Clear Time	10/21/2021~11:50 AM; and 10/22/2021~1:30 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)			
Parameter(s) exceeded or not functioning due to inoperation	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub> <input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow <input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed <input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement	<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg <input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe) Power outage		

#### Event Description:

A breakdown report was submitted on 10/20/2021 at~ 9:15 PM via afterhours phone line by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 10/22/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: You may have additional report requirements under Title V.

## **Detailed Instructions**

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish  
Disposal Co., Inc.**  
15999 Guadalupe Mines Road  
P.O. Box 20957  
San Jose, CA 95160

October 29, 2021 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: Title V Reports

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294  
Section I.F Title V, 10 and 30-Day written report  
RCA Numbers 08C52 and 08C55

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for GRDF.

A breakdown report was submitted on October 20, 2021, at around 9:15 PM via afterhours phone line by GRDF because the landfill gas collection and control system (GCCS) was temporarily shut down due to the PG&E power outage. The flare was online on Thursday, October 21, 2021 around 11:50 AM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for the October 20, 2021 PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on October 21 and amended on October 22, 2021 and were assigned RCA numbers 08C52 and 08CC55 (see Attachment B for copies of RCA and submittals).

The unplanned power outage shutdown events noted in original and amended RCA forms submitted on October 21 and 22, 2021, did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF has placed the purchase order for a permanent generator (delayed due to the COVID-19 emergency and related supply chain disruptions) and the suppliers anticipate the unit to be delivered by the fourth quarter of 2022. Currently, GRDF is working on permit applications as required for the BAAQMD and the City of San Jose.

If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in blue ink, appearing to read "Enrique Perez", is positioned below the typed name.

Enrique Perez  
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data

Attachment B- Copy of GRDF RCA Forms for RCA Numbers 08C52 and 08C55

Attachment A  
GRDF flare data

Guadalupe Landfill Flare A17

Date	Time	Flare		Flare	
		°F MIN	MAX	SCFM MIN	MAX
2021/10/20	15:00:00	1563	1608	1592	1647
2021/10/20	15:02:00	1549	1570	1606	1644
2021/10/20	15:04:00	1570	1611	1597	1648
2021/10/20	15:06:00	1565	1606	1604	1653
2021/10/20	15:08:00	1561	1577	1595	1644
2021/10/20	15:10:00	1577	1602	1600	1645
2021/10/20	15:12:00	1556	1601	1588	1645
2021/10/20	15:14:00	1548	1592	1601	1647
2021/10/20	15:16:00	1584	1611	1600	1647
2021/10/20	15:18:00	1548	1584	1588	1637
2021/10/20	15:20:00	1550	1623	1593	1647
2021/10/20	15:22:00	1548	1624	1595	1648
2021/10/20	15:24:00	1544	1594	1582	1644
2021/10/20	15:26:00	1572	1613	1597	1642
2021/10/20	15:28:00	1558	1572	1595	1641
2021/10/20	15:30:00	1570	1584	1595	1642
2021/10/20	15:32:00	1584	1592	1597	1642
2021/10/20	15:34:00	1572	1589	1592	1647
2021/10/20	15:36:00	1568	1572	1594	1644
2021/10/20	15:38:00	1565	1575	1594	1639
2021/10/20	15:40:00	1575	1587	1594	1645
2021/10/20	15:42:00	1580	1584	1591	1644
2021/10/20	15:44:00	1584	1587	1591	1642
2021/10/20	15:46:00	1575	1584	1594	1645
2021/10/20	15:48:00	1568	1577	1588	1637
2021/10/20	15:50:00	1568	1580	1601	1650
2021/10/20	15:52:00	1580	1590	1591	1642
2021/10/20	15:54:00	1578	1589	1597	1641
2021/10/20	15:56:00	1565	1578	1586	1642
2021/10/20	15:58:00	1568	1575	1597	1639
2021/10/20	16:00:00	1575	1587	1597	1642
2021/10/20	16:02:00	1584	1592	1591	1639
2021/10/20	16:04:00	1566	1584	1588	1650
2021/10/20	16:06:00	1568	1575	1594	1644
2021/10/20	16:08:00	1575	1590	1591	1653
2021/10/20	16:10:00	1575	1594	1592	1645
2021/10/20	16:12:00	1565	1575	1589	1654
2021/10/20	16:14:00	1563	1587	1582	1637
2021/10/20	16:16:00	1587	1597	1597	1642
2021/10/20	16:18:00	1566	1592	1594	1639
2021/10/20	16:20:00	1563	1573	1601	1639
2021/10/20	16:22:00	1572	1587	1597	1642
2021/10/20	16:24:00	1587	1592	1583	1636
2021/10/20	16:26:00	1573	1587	1594	1638
2021/10/20	16:28:00	1568	1573	1591	1639
2021/10/20	16:30:00	1568	1575	1592	1641



2021/10/20	16:32:00	1575	1590	1592	1641
2021/10/20	16:34:00	1584	1589	1589	1645
2021/10/20	16:36:00	1575	1585	1594	1641
2021/10/20	16:38:00	1568	1575	1595	1639
2021/10/20	16:40:00	1568	1573	1583	1637
2021/10/20	16:42:00	1573	1590	1594	1639
2021/10/20	16:44:00	1582	1594	1594	1639
2021/10/20	16:46:00	1565	1582	1584	1641
2021/10/20	16:48:00	1561	1587	1594	1645
2021/10/20	16:50:00	1587	1607	1598	1641
2021/10/20	16:52:00	1551	1595	1591	1641
2021/10/20	16:54:00	1551	1589	1587	1636
2021/10/20	16:56:00	1589	1603	1591	1637
2021/10/20	16:58:00	1565	1590	1586	1642
2021/10/20	17:00:00	1563	1580	1591	1636
2021/10/20	17:02:00	1580	1597	1586	1642
2021/10/20	17:04:00	1561	1598	1592	1636
2021/10/20	17:06:00	1549	1573	1597	1639
2021/10/20	17:08:00	1573	1606	1592	1634
2021/10/20	17:10:00	1559	1604	1589	1636
2021/10/20	17:12:00	1551	1578	1594	1637
2021/10/20	17:14:00	1578	1606	1584	1641
2021/10/20	17:16:00	1561	1602	1586	1639
2021/10/20	17:18:00	1559	1580	1594	1639
2021/10/20	17:20:00	1580	1599	1588	1634
2021/10/20	17:22:00	1572	1600	1591	1641
2021/10/20	17:24:00	1555	1572	1591	1637
2021/10/20	17:26:00	1559	1590	1586	1639
2021/10/20	17:28:00	1589	1602	1589	1637
2021/10/20	17:30:00	1560	1589	1587	1637
2021/10/20	17:32:00	1559	1582	1584	1637
2021/10/20	17:34:00	1582	1597	1592	1639
2021/10/20	17:36:00	1561	1596	1589	1637
2021/10/20	17:38:00	1366	1631	0	1633
2021/10/20	17:40:00	1041	1366	0	1
2021/10/20	17:42:00	832	1041	0	1
2021/10/20	17:44:00	684	832	-1	2
2021/10/20	17:46:00	579	684	-1	1
2021/10/20	17:48:00	501	579	0	1
2021/10/20	17:50:00	440	501	0	1
2021/10/20	17:52:00	390	440	-1	1
2021/10/20	17:54:00	349	391	-1	1
2021/10/20	17:56:00	314	349	-1	1
2021/10/20	17:58:00	284	314	-1	1
2021/10/20	18:00:00	259	284	-1	1
2021/10/20	18:02:00	237	259	-1	1
2021/10/20	18:04:00	218	237	-1	1
2021/10/20	18:06:00	202	218	-1	1
2021/10/20	18:08:00	188	202	-1	1
2021/10/20	18:10:00	176	188	-1	1
2021/10/20	18:12:00	165	176	-1	1
2021/10/20	18:14:00	155	165	-1	1
2021/10/20	18:16:00	147	155	-1	1

2021/10/20	18:18:00	139	147	-1	1
2021/10/20	18:20:00	133	139	-1	1
2021/10/20	18:22:00	127	133	-1	1
2021/10/20	18:24:00	121	127	-1	1
2021/10/20	18:26:00	116	121	-1	1
2021/10/20	18:28:00	111	116	-1	1
2021/10/20	18:30:00	107	111	-1	1
2021/10/20	18:32:00	104	107	-1	1
2021/10/20	18:34:00	101	104	-1	1
2021/10/20	18:36:00	98	101	-1	1
2021/10/20	18:38:00	95	98	-1	1
2021/10/20	18:40:00	93	95	-1	1
2021/10/20	18:42:00	91	93	-1	1
2021/10/20	18:44:00	89	91	-1	1
2021/10/20	18:46:00	87	89	-1	1
2021/10/20	18:48:00	85	87	-1	1
2021/10/20	18:50:00	84	85	-1	1
2021/10/20	18:52:00	83	84	-1	0
2021/10/20	18:54:00	81	83	-1	1
2021/10/20	18:56:00	80	81	-1	1
2021/10/20	18:58:00	79	80	-1	1
2021/10/20	19:00:00	78	79	-1	0
2021/10/20	19:02:00	77	78	-1	1
2021/10/20	19:04:00	77	77	-1	1
2021/10/20	19:06:00	76	77	-1	1
2021/10/20	19:08:00	75	76	-1	1
2021/10/20	19:10:00	75	75	-1	1
2021/10/20	19:12:00	74	75	-1	0
2021/10/20	19:14:00	74	74	-1	0
2021/10/20	19:16:00	73	74	-1	1
2021/10/20	19:18:00	73	73	-1	0
2021/10/20	19:20:00	72	73	-1	1
2021/10/20	19:22:00	72	72	-1	1
2021/10/20	19:24:00	71	72	-1	0
2021/10/20	19:26:00	71	71	-1	0
2021/10/20	19:28:00	70	71	-1	1
2021/10/20	19:30:00	70	70	-1	0
2021/10/20	19:32:00	70	70	-1	1
2021/10/20	19:34:00	69	70	-1	1
2021/10/20	19:36:00	69	70	-1	0
2021/10/20	19:38:00	69	70	-2	0
2021/10/20	19:40:00	68	70	-1	0
2021/10/20	19:42:00	68	69	-1	0
2021/10/20	19:44:00	68	68	-1	0
2021/10/20	19:46:00	68	68	-1	0
2021/10/20	19:48:00	67	68	-1	0
2021/10/20	19:50:00	67	68	-1	0
2021/10/20	19:52:00	67	67	-1	0
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2021/10/20	19:56:00	66	67	-1	1
2021/10/20	19:58:00	66	67	-1	0
2021/10/20	20:00:00	66	66	-1	1
2021/10/20	20:02:00	66	66	-1	0

2021/10/20	20:04:00	66	66	-1	0
2021/10/20	20:06:00	66	66	-1	0
2021/10/20	20:08:00	65	66	-1	1
2021/10/20	20:10:00	65	66	-1	1
2021/10/20	20:12:00	65	65	-1	1
2021/10/20	20:14:00	65	65	-1	0
2021/10/20	20:16:00	65	65	-1	1
2021/10/20	20:18:00	65	65	-1	0
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2021/10/20	20:22:00	64	65	-1	0
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2021/10/20	20:34:00	63	65	-1	0
2021/10/20	20:36:00	63	65	-1	0
2021/10/20	20:38:00	63	63	-1	1
2021/10/20	20:40:00	63	63	-1	1
2021/10/20	20:42:00	63	63	-1	0
2021/10/20	20:44:00	63	63	-1	0
2021/10/20	20:46:00	62	63	-1	0
2021/10/20	20:48:00	62	63	-1	0
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2021/10/20	21:38:00	61	63	-1	0
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2021/10/20	21:46:00	61	61	-1	0
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2021/10/20	21:56:00	61	61	-1	0
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2021/10/20	22:06:00	61	61	-1	1
2021/10/20	22:08:00	61	61	-1	0
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2021/10/20	22:20:00	61	61	-1	1
2021/10/20	22:22:00	61	61	-1	0
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2021/10/20	22:26:00	61	61	-1	0
2021/10/20	22:28:00	-OVER	61	-OVER	0
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2021/10/20	22:54:00	-OVER	61	-OVER	3
2021/10/20	22:56:00	61	61	-1	0
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2021/10/20	23:00:00	-326	61	-1	0
2021/10/20	23:02:00	61	61	-1	0
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2021/10/20	23:24:00	-OVER	61	-OVER	4
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2021/10/20	23:30:00	61	61	-2	0
2021/10/20	23:32:00	61	61	-1	0
2021/10/20	23:34:00	61	61	-2	0

2021/10/20	23:36:00	61	61	-1	0
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2021/10/20	23:40:00	61	61	-1	0
2021/10/20	23:42:00	61	61	-1	0
2021/10/20	23:44:00	60	61	-2	1
2021/10/20	23:46:00	-OVER	61	-OVER	0
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2021/10/20	23:50:00	-OVER	61	-OVER	0
2021/10/20	23:52:00	-OVER	61	-OVER	1
2021/10/20	23:54:00	60	60	-1	0
2021/10/20	23:56:00	60	60	-2	0
2021/10/20	23:58:00	60	60	-2	0
2021/10/21	00:00:00	60	60	-2	0
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2021/10/21	00:06:00	60	61	-1	0
2021/10/21	00:08:00	-OVER	61	-OVER	0
2021/10/21	00:10:00	-OVER	61	-OVER	4
2021/10/21	00:12:00	-OVER	61	-OVER	0
2021/10/21	00:14:00	-OVER	61	-OVER	0
2021/10/21	00:16:00	60	61	-1	0
2021/10/21	00:18:00	61	61	-2	0
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2021/10/21	01:02:00	-OVER	61	-OVER	1
2021/10/21	01:04:00	61	61	-1	0
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2021/10/21	01:08:00	61	61	-1	0
2021/10/21	01:10:00	61	61	-1	0
2021/10/21	01:12:00	-OVER	61	-OVER	3038
2021/10/21	01:14:00	-326	61	-1	0
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2021/10/21	01:18:00	61	61	-1	0
2021/10/21	01:20:00	-OVER	61	-OVER	0

2021/10/21	01:22:00	-OVER	61	-OVER	0
2021/10/21	01:24:00	-OVER	61	-OVER	0
2021/10/21	01:26:00	-326	61	-1	0
2021/10/21	01:28:00	-OVER	63	-OVER	0
2021/10/21	01:30:00	-326	61	-1	0
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2021/10/21	01:58:00	61	61	-2	0
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2021/10/21	02:02:00	61	61	-1	0
2021/10/21	02:04:00	60	61	-1	0
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2021/10/21	02:38:00	-OVER	61	-OVER	3
2021/10/21	02:40:00	61	61	-2	0
2021/10/21	02:42:00	-OVER	61	-OVER	0
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2021/10/21	02:46:00	-OVER	61	-OVER	0
2021/10/21	02:48:00	-OVER	61	-OVER	0
2021/10/21	02:50:00	-OVER	63	-OVER	0
2021/10/21	02:52:00	-OVER	63	-OVER	4
2021/10/21	02:54:00	61	63	-1	0
2021/10/21	02:56:00	-OVER	63	-OVER	0
2021/10/21	02:58:00	-326	63	-1	3
2021/10/21	03:00:00	61	63	-1	0
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2021/10/21	03:08:00	61	63	-180	-178
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2021/10/21	03:14:00	61	63	-180	-178
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2021/10/21	03:24:00	61	61	-180	-178
2021/10/21	03:26:00	-OVER	61	-OVER	0
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2021/10/21	03:32:00	-OVER	61	-OVER	0
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2021/10/21	03:48:00	-OVER	61	-OVER	0
2021/10/21	03:50:00	-OVER	61	-OVER	0
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2021/10/21	04:12:00	-OVER	61	-OVER	4
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2021/10/21	04:18:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	04:20:00	-OVER	-OVER	-OVER	-OVER
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2021/10/21	04:26:00	-OVER	-326	-OVER	-1
2021/10/21	04:28:00	-OVER	63	-OVER	0
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2021/10/21	04:32:00	-OVER	63	-OVER	-1
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2021/10/21	04:38:00	-OVER	63	-OVER	0
2021/10/21	04:40:00	-OVER	-326	-OVER	0
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2021/10/21	04:52:00	-OVER	63	-OVER	0

2021/10/21	04:54:00	-OVER	-326	-OVER	0
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2021/10/21	04:58:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:00:00	-OVER	-OVER	-OVER	-OVER
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2021/10/21	05:06:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:08:00	-OVER	63	-OVER	0
2021/10/21	05:10:00	63	63	-1	0
2021/10/21	05:12:00	-OVER	63	-OVER	0
2021/10/21	05:14:00	63	63	-1	0
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2021/10/21	05:20:00	-OVER	63	-OVER	1
2021/10/21	05:22:00	-OVER	63	-OVER	0
2021/10/21	05:24:00	63	63	-1	0
2021/10/21	05:26:00	-OVER	63	-OVER	0
2021/10/21	05:28:00	63	63	-1	0
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2021/10/21	05:36:00	-OVER	63	-OVER	0
2021/10/21	05:38:00	-OVER	63	-OVER	0
2021/10/21	05:40:00	63	63	-2	0
2021/10/21	05:42:00	-OVER	63	-OVER	0
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2021/10/21	05:46:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:48:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:50:00	-OVER	63	-OVER	0
2021/10/21	05:52:00	-OVER	63	-OVER	0
2021/10/21	05:54:00	-OVER	63	-OVER	0
2021/10/21	05:56:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:58:00	-OVER	63	-OVER	0
2021/10/21	06:00:00	-OVER	63	-OVER	0
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2021/10/21	06:04:00	-OVER	63	-OVER	0
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2021/10/21	06:12:00	-OVER	64	-OVER	0
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2021/10/21	06:16:00	-OVER	64	-OVER	0
2021/10/21	06:18:00	-OVER	64	-OVER	3
2021/10/21	06:20:00	-OVER	64	-OVER	0
2021/10/21	06:22:00	63	64	-1	1
2021/10/21	06:24:00	-OVER	63	-OVER	0
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2021/10/21	06:32:00	-OVER	63	-OVER	0
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2021/10/21	06:36:00	-OVER	63	-OVER	4
2021/10/21	06:38:00	63	63	-2	1



2021/10/21	06:40:00	63	63	-1	1
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2021/10/21	06:44:00	-326	63	-1	0
2021/10/21	06:46:00	63	63	-1	0
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2021/10/21	06:50:00	63	63	-1	1
2021/10/21	06:52:00	-OVER	63	-OVER	0
2021/10/21	06:54:00	-OVER	63	-OVER	0
2021/10/21	06:56:00	-OVER	63	-OVER	0
2021/10/21	06:58:00	-OVER	63	-OVER	6
2021/10/21	07:00:00	-326	63	-1	1
2021/10/21	07:02:00	63	63	-1	0
2021/10/21	07:04:00	63	63	-1	1
2021/10/21	07:06:00	63	63	-1	1
2021/10/21	07:08:00	63	63	-1	1
2021/10/21	07:10:00	63	63	-1	1
2021/10/21	07:12:00	63	63	-1	1
2021/10/21	07:14:00	63	63	-1	1
2021/10/21	07:16:00	63	63	-1	1
2021/10/21	07:18:00	63	63	-1	1
2021/10/21	07:20:00	63	63	-1	1
2021/10/21	07:22:00	63	63	-1	1
2021/10/21	07:24:00	-OVER	63	-OVER	1
2021/10/21	07:26:00	-OVER	63	-OVER	2
2021/10/21	07:28:00	63	63	-1	1
2021/10/21	07:30:00	63	63	-1	1
2021/10/21	07:32:00	63	63	-1	1
2021/10/21	07:34:00	63	63	-1	0
2021/10/21	07:36:00	63	63	-1	1
2021/10/21	07:38:00	63	63	-1	0
2021/10/21	07:40:00	63	63	-1	1
2021/10/21	07:42:00	63	63	-1	0
2021/10/21	07:44:00	63	63	-1	1
2021/10/21	07:46:00	63	63	-1	0
2021/10/21	07:48:00	63	63	-1	1
2021/10/21	07:50:00	63	63	-1	0
2021/10/21	07:52:00	-OVER	63	-OVER	1
2021/10/21	07:54:00	-326	63	-1	1
2021/10/21	07:56:00	63	63	-1	1
2021/10/21	07:58:00	63	63	-1	0
2021/10/21	08:00:00	63	63	-1	1
2021/10/21	08:02:00	63	63	-1	1
2021/10/21	08:04:00	63	63	-1	1
2021/10/21	08:06:00	63	63	-1	1
2021/10/21	08:08:00	63	63	-1	1
2021/10/21	08:10:00	63	63	-1	1
2021/10/21	08:12:00	63	63	-1	1
2021/10/21	08:14:00	63	63	-1	0
2021/10/21	08:16:00	63	63	-1	1
2021/10/21	08:18:00	63	63	-1	0
2021/10/21	08:20:00	-OVER	65	-OVER	1
2021/10/21	08:22:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	08:24:00	-OVER	-OVER	-OVER	-OVER

2021/10/21	08:26:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	08:28:00	-OVER	65	-OVER	1
2021/10/21	08:30:00	63	65	-1	1
2021/10/21	08:32:00	65	65	-1	1
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2021/10/21	08:36:00	64	65	-1	1
2021/10/21	08:38:00	64	65	-1	1
2021/10/21	08:40:00	64	65	-1	1
2021/10/21	08:42:00	64	65	-1	1
2021/10/21	08:44:00	64	65	-1	1
2021/10/21	08:46:00	64	65	-1	1
2021/10/21	08:48:00	64	65	-1	1
2021/10/21	08:50:00	64	65	-1	1
2021/10/21	08:52:00	64	65	-1	1
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2021/10/21	09:06:00	64	65	-1	1
2021/10/21	09:08:00	64	65	-1	1
2021/10/21	09:10:00	64	65	-1	1
2021/10/21	09:12:00	64	65	-1	1
2021/10/21	09:14:00	64	65	-1	1
2021/10/21	09:16:00	64	65	-1	1
2021/10/21	09:18:00	65	65	-1	1
2021/10/21	09:20:00	65	65	-1	1
2021/10/21	09:22:00	65	65	-1	1
2021/10/21	09:24:00	65	65	-1	1
2021/10/21	09:26:00	65	65	-1	1
2021/10/21	09:28:00	65	65	-1	1
2021/10/21	09:30:00	65	65	-1	1
2021/10/21	09:32:00	65	65	-1	1
2021/10/21	09:34:00	65	65	-1	1
2021/10/21	09:36:00	64	65	0	0
2021/10/21	09:38:00	65	87	0	1370
2021/10/21	09:40:00	87	143	0	1
2021/10/21	09:42:00	143	155	0	0
2021/10/21	09:44:00	151	155	0	0
2021/10/21	09:46:00	142	152	0	0
2021/10/21	09:48:00	133	142	0	0
2021/10/21	09:50:00	128	169	0	1366
2021/10/21	09:52:00	169	253	0	0
2021/10/21	09:54:00	253	266	0	1
2021/10/21	09:56:00	251	265	0	1
2021/10/21	09:58:00	232	251	0	0
2021/10/21	10:00:00	213	232	0	1
2021/10/21	10:02:00	196	213	0	0
2021/10/21	10:04:00	181	196	0	0
2021/10/21	10:06:00	168	181	0	1337
2021/10/21	10:08:00	171	295	0	1358
2021/10/21	10:10:00	295	321	0	0

2021/10/21	10:12:00	298	319	0	1
2021/10/21	10:14:00				
2021/10/21	10:16:00				
2021/10/21	10:18:00				
2021/10/21	10:20:00				
2021/10/21	10:22:00				
2021/10/21	10:24:00				
2021/10/21	10:26:00				
2021/10/21	10:28:00				
2021/10/21	10:30:00				
2021/10/21	10:32:00				
2021/10/21	10:34:00				
2021/10/21	10:36:00	116	120	-2	-1
2021/10/21	10:38:00	110	116	-1	0
2021/10/21	10:40:00	105	111	0	0
2021/10/21	10:42:00				
2021/10/21	10:44:00				
2021/10/21	10:46:00	96	97	-1	0
2021/10/21	10:48:00	94	96	0	0
2021/10/21	10:50:00	92	94	0	0
2021/10/21	10:52:00	90	92	0	1
2021/10/21	10:54:00	90	131	0	1364
2021/10/21	10:56:00	131	238	0	1
2021/10/21	10:58:00	238	261	1	1
2021/10/21	11:00:00	249	261	1	1
2021/10/21	11:02:00	229	232	-183	-183
2021/10/21	11:04:00	212	229	-186	41
2021/10/21	11:06:00	195	212	1	1
2021/10/21	11:08:00	180	195	1	1
2021/10/21	11:10:00	167	180	1	1
2021/10/21	11:12:00	155	167	1	1
2021/10/21	11:14:00	145	155	1	1
2021/10/21	11:16:00	136	145	1	1
2021/10/21	11:18:00	128	136	1	1
2021/10/21	11:20:00	121	128	1	1
2021/10/21	11:22:00	116	121	1	1
2021/10/21	11:24:00	112	121	1	1373
2021/10/21	11:26:00	121	1921	1372	2606
2021/10/21	11:28:00	1538	1920	1869	2327
2021/10/21	11:30:00	1522	1601	1811	1880
2021/10/21	11:32:00	1560	1610	1817	1858
2021/10/21	11:34:00	1545	1560	1799	1847
2021/10/21	11:36:00	1553	1616	1779	1838
2021/10/21	11:38:00	1559	1615	1768	1830
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2021/10/21	11:42:00	1572	1587	1758	1800
2021/10/21	11:44:00	1566	1585	1752	1802
2021/10/21	11:46:00	1558	1585	1755	1796
2021/10/21	11:48:00	1585	1602	1747	1799
2021/10/21	11:50:00	1566	1597	1728	1794
2021/10/21	11:52:00	1561	1575	1735	1787
2021/10/21	11:54:00	1575	1587	1729	1791
2021/10/21	11:56:00	1577	1585	1731	1781

2021/10/21	11:58:00	1566	1582	1729	1779
2021/10/21	12:00:00	1582	1587	1729	1775
2021/10/21	12:02:00	1572	1582	1717	1767
2021/10/21	12:04:00	1566	1577	1707	1763
2021/10/21	12:06:00	1566	1597	1714	1762
2021/10/21	12:08:00	1589	1600	1714	1756
2021/10/21	12:10:00	1575	1589	1705	1755
2021/10/21	12:12:00	1568	1575	1714	1763
2021/10/21	12:14:00	1567	1577	1710	1766
2021/10/21	12:16:00	1577	1585	1705	1767
2021/10/21	12:18:00	1585	1592	1710	1764
2021/10/21	12:20:00	1578	1589	1707	1757
2021/10/21	12:22:00	1555	1578	1711	1756
2021/10/21	12:24:00	1555	1594	1704	1744
2021/10/21	12:26:00	1587	1621	1704	1744
2021/10/21	12:28:00	1552	1587	1704	1756
2021/10/21	12:30:00	1565	1599	1697	1742
2021/10/21	12:32:00	1575	1604	1704	1749
2021/10/21	12:34:00	1561	1575	1705	1756
2021/10/21	12:36:00	1560	1593	1701	1744
2021/10/21	12:38:00	1589	1599	1691	1740
2021/10/21	12:40:00	1566	1589	1690	1753
2021/10/21	12:42:00	1565	1570	1688	1748
2021/10/21	12:44:00	1570	1598	1698	1752
2021/10/21	12:46:00	1585	1603	1692	1753
2021/10/21	12:48:00	1567	1585	1692	1741
2021/10/21	12:50:00	1567	1569	1691	1737
2021/10/21	12:52:00	1568	1590	1692	1752
2021/10/21	12:54:00	1590	1595	1698	1741
2021/10/21	12:56:00	1557	1590	1692	1740
2021/10/21	12:58:00	1553	1586	1693	1731
2021/10/21	13:00:00	1586	1606	1699	1747
2021/10/21	13:02:00	1561	1597	1690	1746
2021/10/21	13:04:00	1557	1576	1686	1742
2021/10/21	13:06:00	1576	1591	1683	1736
2021/10/21	13:08:00	1583	1591	1683	1734
2021/10/21	13:10:00	1574	1583	1692	1733
2021/10/21	13:12:00	1574	1579	1689	1743
2021/10/21	13:14:00	1572	1577	1690	1737
2021/10/21	13:16:00	1575	1579	1689	1732
2021/10/21	13:18:00	1568	1578	1683	1725
2021/10/21	13:20:00	1570	1583	1683	1737
2021/10/21	13:22:00	1580	1598	1686	1731
2021/10/21	13:24:00	1556	1596	1688	1731
2021/10/21	13:26:00	1553	1575	1680	1736
2021/10/21	13:28:00	1575	1605	1680	1723
2021/10/21	13:30:00	1572	1600	1680	1723
2021/10/21	13:32:00	1565	1572	1677	1739
2021/10/21	13:34:00	1565	1583	1675	1721
2021/10/21	13:36:00	1583	1594	1677	1727

2021/10/21	13:38:00	1576	1591	1678	1725
2021/10/21	13:40:00	1569	1576	1676	1725
2021/10/21	13:42:00	1574	1579	1672	1734
2021/10/21	13:44:00	1572	1577	1675	1728
2021/10/21	13:46:00	1576	1581	1680	1717
2021/10/21	13:48:00	1577	1584	1677	1730
2021/10/21	13:50:00	1577	1582	1677	1722
2021/10/21	13:52:00	1579	1584	1683	1734
2021/10/21	13:54:00	1579	1584	1674	1713
2021/10/21	13:56:00	1569	1583	1671	1722
2021/10/21	13:58:00	1571	1578	1678	1727
2021/10/21	14:00:00	1577	1583	1681	1733

Note:"-OVER" :Anamalous data was recored during part of the time when the flare was offline due to PG&E power outage.

Guadalupe Landfill Flare A17

Date	Time	Flare		Flare	
		°F MIN	MAX	SCFM MIN	MAX
2021/10/22	05:00:00	1581	1588	1539	1592
2021/10/22	05:02:00	1561	1581	1547	1586
2021/10/22	05:04:00	1559	1568	1545	1596
2021/10/22	05:06:00	1562	1597	1545	1596
2021/10/22	05:08:00	1594	1601	1550	1593
2021/10/22	05:10:00	1566	1595	1542	1589
2021/10/22	05:12:00	1571	1587	1539	1587
2021/10/22	05:14:00	1571	1587	1534	1586
2021/10/22	05:16:00	1572	1586	1536	1583
2021/10/22	05:18:00	1553	1575	1527	1581
2021/10/22	05:20:00	1575	1588	1533	1578
2021/10/22	05:22:00	1584	1589	1535	1580
2021/10/22	05:24:00	1575	1586	1528	1573
2021/10/22	05:26:00	1574	1578	1531	1584
2021/10/22	05:28:00	1572	1577	1533	1573
2021/10/22	05:30:00	1576	1581	1531	1583
2021/10/22	05:32:00	1572	1576	1537	1584
2021/10/22	05:34:00	1575	1604	1533	1583
2021/10/22	05:36:00	1543	1601	1528	1576
2021/10/22	05:38:00	1538	1582	1533	1575
2021/10/22	05:40:00	1582	1613	1527	1575
2021/10/22	05:42:00	1569	1609	1536	1578
2021/10/22	05:44:00	1566	1573	1528	1577
2021/10/22	05:46:00	1559	1571	1522	1576
2021/10/22	05:48:00	1557	1634	1522	1566
2021/10/22	05:50:00	1548	1639	1524	1567
2021/10/22	05:52:00	1542	1617	1517	1566
2021/10/22	05:54:00	1573	1630	1524	1572
2021/10/22	05:56:00	1551	1573	1527	1570
2021/10/22	05:58:00	-OVER	1584	-OVER	1573
2021/10/22	06:00:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:02:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:04:00	-OVER	-326	-OVER	0
2021/10/22	06:06:00	-OVER	-326	-OVER	0
2021/10/22	06:08:00	-OVER	581	-OVER	0
2021/10/22	06:10:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:12:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:14:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:16:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:18:00	-OVER	280	-OVER	-1
2021/10/22	06:20:00	-OVER	278	-OVER	0
2021/10/22	06:22:00	-OVER	-326	-OVER	1
2021/10/22	06:24:00	-OVER	228	-OVER	3174
2021/10/22	06:26:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:28:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:30:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:32:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:34:00	-OVER	-OVER	-OVER	-OVER

2021/10/22	06:36:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:38:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:40:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:42:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:44:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:46:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:48:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:50:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:52:00	-OVER	93	-OVER	-1
2021/10/22	06:54:00	-OVER	92	-OVER	0
2021/10/22	06:56:00	-OVER	87	-OVER	0
2021/10/22	06:58:00	-OVER	85	-OVER	43
2021/10/22	07:00:00	-OVER	83	-OVER	41
2021/10/22	07:02:00	-OVER	80	-OVER	0
2021/10/22	07:04:00	-OVER	77	-OVER	3622
2021/10/22	07:06:00	73	76	-2	0
2021/10/22	07:08:00	73	75	-2	0
2021/10/22	07:10:00	-OVER	73	-OVER	0
2021/10/22	07:12:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	07:14:00	-OVER	70	-OVER	0
2021/10/22	07:16:00	-OVER	70	-OVER	0
2021/10/22	07:18:00	-OVER	69	-OVER	0
2021/10/22	07:20:00	-OVER	68	-OVER	-1
2021/10/22	07:22:00	-OVER	66	-OVER	-1
2021/10/22	07:24:00	66	66	-2	0
2021/10/22	07:26:00	66	66	-2	-1
2021/10/22	07:28:00				
2021/10/22	07:30:00				
2021/10/22	07:32:00				
2021/10/22	07:34:00				
2021/10/22	07:36:00				
2021/10/22	07:38:00				
2021/10/22	07:40:00				
2021/10/22	07:42:00				
2021/10/22	07:44:00				
2021/10/22	07:46:00				
2021/10/22	07:48:00				
2021/10/22	07:50:00				
2021/10/22	07:52:00				
2021/10/22	07:54:00				
2021/10/22	07:56:00				
2021/10/22	07:58:00				
2021/10/22	08:00:00				
2021/10/22	08:02:00				
2021/10/22	08:04:00				
2021/10/22	08:06:00				
2021/10/22	08:08:00				
2021/10/22	08:10:00				
2021/10/22	08:12:00				
2021/10/22	08:14:00				
2021/10/22	08:16:00				
2021/10/22	08:18:00				
2021/10/22	08:20:00				
2021/10/22	08:22:00				
2021/10/22	08:24:00				

2021/10/22 08:26:00  
2021/10/22 08:28:00  
2021/10/22 08:30:00  
2021/10/22 08:32:00  
2021/10/22 08:34:00  
2021/10/22 08:36:00  
2021/10/22 08:38:00  
2021/10/22 08:40:00  
2021/10/22 08:42:00  
2021/10/22 08:44:00  
2021/10/22 08:46:00  
2021/10/22 08:48:00  
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2021/10/22 08:52:00  
2021/10/22 08:54:00  
2021/10/22 08:56:00  
2021/10/22 08:58:00  
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2021/10/22 09:04:00  
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2021/10/22 09:08:00  
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2021/10/22 09:12:00  
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2021/10/22 09:34:00  
2021/10/22 09:36:00  
2021/10/22 09:38:00  
2021/10/22 09:40:00  
2021/10/22 09:42:00  
2021/10/22 09:44:00  
2021/10/22 09:46:00  
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2021/10/22 10:02:00  
2021/10/22 10:04:00  
2021/10/22 10:06:00  
2021/10/22 10:08:00  
2021/10/22 10:10:00  
2021/10/22 10:12:00  
2021/10/22 10:14:00



2021/10/22	10:16:00				
2021/10/22	10:18:00				
2021/10/22	10:20:00				
2021/10/22	10:22:00				
2021/10/22	10:24:00				
2021/10/22	10:26:00				
2021/10/22	10:28:00				
2021/10/22	10:30:00				
2021/10/22	10:32:00				
2021/10/22	10:34:00				
2021/10/22	10:36:00				
2021/10/22	10:38:00				
2021/10/22	10:40:00				
2021/10/22	10:42:00				
2021/10/22	10:44:00				
2021/10/22	10:46:00				
2021/10/22	10:48:00				
2021/10/22	10:50:00				
2021/10/22	10:52:00				
2021/10/22	10:54:00				
2021/10/22	10:56:00				
2021/10/22	10:58:00				
2021/10/22	11:00:00				
2021/10/22	11:02:00				
2021/10/22	11:04:00				
2021/10/22	11:06:00				
2021/10/22	11:08:00				
2021/10/22	11:10:00				
2021/10/22	11:12:00				
2021/10/22	11:14:00				
2021/10/22	11:16:00				
2021/10/22	11:18:00				
2021/10/22	11:20:00				
2021/10/22	11:22:00				
2021/10/22	11:24:00				
2021/10/22	11:26:00				
2021/10/22	11:28:00				
2021/10/22	11:30:00				
2021/10/22	11:32:00				
2021/10/22	11:34:00				
2021/10/22	11:36:00				
2021/10/22	11:38:00				
2021/10/22	11:40:00				
2021/10/22	11:42:00				
2021/10/22	11:44:00				
2021/10/22	11:46:00				
2021/10/22	11:48:00				
2021/10/22	11:50:00				
2021/10/22	11:52:00	66	66	-1	0
2021/10/22	11:54:00	66	68	0	1
2021/10/22	11:56:00	67	70	0	140
2021/10/22	11:58:00	70	71	0	1
2021/10/22	12:00:00	70	71	0	1
2021/10/22	12:02:00	70	71	1	1
2021/10/22	12:04:00	70	71	1	1

2021/10/22	12:06:00	70	71	1	1
2021/10/22	12:08:00	70	70	1	1
2021/10/22	12:10:00				
2021/10/22	12:12:00	70	70	-188	38
2021/10/22	12:14:00	70	70	1	1
2021/10/22	12:16:00	69	70	1	2
2021/10/22	12:18:00				
2021/10/22	12:20:00				
2021/10/22	12:22:00	70	70	0	1
2021/10/22	12:24:00	70	70	1	1
2021/10/22	12:26:00	70	70	1	2
2021/10/22	12:28:00	70	70	1	2
2021/10/22	12:30:00	69	70	1	2
2021/10/22	12:32:00	69	70	1	2
2021/10/22	12:34:00	69	70	2	2
2021/10/22	12:36:00	69	70	2	2
2021/10/22	12:38:00				
2021/10/22	12:40:00				
2021/10/22	12:42:00				
2021/10/22	12:44:00	70	71	1	1
2021/10/22	12:46:00	71	71	1	2
2021/10/22	12:48:00	71	71	1	2
2021/10/22	12:50:00	71	71	2	2
2021/10/22	12:52:00	71	72	2	2
2021/10/22	12:54:00	72	74	2	2
2021/10/22	12:56:00	73	75	1	2
2021/10/22	12:58:00	74	75	2	2
2021/10/22	13:00:00	75	75	2	2
2021/10/22	13:02:00				
2021/10/22	13:04:00				
2021/10/22	13:06:00	75	76	1	1
2021/10/22	13:08:00	73	75	1	2
2021/10/22	13:10:00	73	84	1	1431
2021/10/22	13:12:00	84	1910	1411	2606
2021/10/22	13:14:00	1527	1908	2019	2379
2021/10/22	13:16:00	1519	1623	1981	2057
2021/10/22	13:18:00	1541	1614	1961	2020
2021/10/22	13:20:00	1546	1609	1934	2008
2021/10/22	13:22:00	1575	1609	1921	1980
2021/10/22	13:24:00	1561	1576	1910	1966
2021/10/22	13:26:00	1561	1578	1901	1960
2021/10/22	13:28:00	1578	1589	1895	1947
2021/10/22	13:30:00	1584	1592	1883	1933
2021/10/22	13:32:00	1562	1585	1882	1937
2021/10/22	13:34:00	1555	1575	1873	1930
2021/10/22	13:36:00	1575	1603	1871	1925
2021/10/22	13:38:00	1570	1603	1865	1916
2021/10/22	13:40:00	1565	1570	1863	1913
2021/10/22	13:42:00	1568	1578	1858	1915
2021/10/22	13:44:00	1577	1580	1862	1909
2021/10/22	13:46:00	1580	1586	1857	1900
2021/10/22	13:48:00	1569	1585	1857	1913
2021/10/22	13:50:00	1572	1594	1854	1904
2021/10/22	13:52:00	1579	1594	1857	1907
2021/10/22	13:54:00	1572	1579	1854	1910

2021/10/22	13:56:00	1548	1573	1846	1901
2021/10/22	13:58:00	1552	1625	1835	1880
2021/10/22	14:00:00	1551	1615	1839	1891
2021/10/22	14:02:00	1548	1594	1833	1886
2021/10/22	14:04:00	1589	1605	1830	1882
2021/10/22	14:06:00	1567	1589	1836	1891
2021/10/22	14:08:00	1562	1574	1835	1891
2021/10/22	14:10:00	1571	1607	1837	1886
2021/10/22	14:12:00	1571	1609	1830	1883
2021/10/22	14:14:00	1560	1571	1832	1888
2021/10/22	14:16:00	1568	1601	1835	1883
2021/10/22	14:18:00	1580	1602	1834	1878
2021/10/22	14:20:00	1562	1580	1827	1877
2021/10/22	14:22:00	1567	1581	1821	1874
2021/10/22	14:24:00	1581	1598	1822	1869
2021/10/22	14:26:00	1571	1598	1821	1877
2021/10/22	14:28:00	1565	1571	1821	1866
2021/10/22	14:30:00	1565	1597	1820	1875
2021/10/22	14:32:00	1586	1606	1827	1872
2021/10/22	14:34:00	1564	1587	1815	1882
2021/10/22	14:36:00	1564	1577	1829	1880
2021/10/22	14:38:00	1577	1589	1820	1877
2021/10/22	14:40:00	1586	1595	1809	1871
2021/10/22	14:42:00	1565	1586	1818	1864
2021/10/22	14:44:00	1560	1579	1817	1860
2021/10/22	14:46:00	1579	1607	1814	1859
2021/10/22	14:48:00	1574	1606	1806	1859
2021/10/22	14:50:00	1560	1574	1811	1867
2021/10/22	14:52:00	1565	1589	1817	1874
2021/10/22	14:54:00	1589	1599	1802	1869
2021/10/22	14:56:00	1572	1594	1808	1861
2021/10/22	14:58:00	1576	1605	1803	1859
2021/10/22	15:00:00	1543	1579	1812	1871
2021/10/22	15:02:00	1543	1606	1812	1871
2021/10/22	15:04:00	1577	1612	1811	1862
2021/10/22	15:06:00	1553	1578	1808	1859
2021/10/22	15:08:00	1558	1578	1808	1861
2021/10/22	15:10:00	1576	1586	1806	1855
2021/10/22	15:12:00	1582	1589	1802	1855
2021/10/22	15:14:00	1583	1587	1802	1850
2021/10/22	15:16:00	1560	1585	1808	1866
2021/10/22	15:18:00	1558	1573	1809	1851
2021/10/22	15:20:00	1573	1588	1802	1858
2021/10/22	15:22:00	1584	1594	1806	1855
2021/10/22	15:24:00	1565	1584	1812	1865
2021/10/22	15:26:00	1563	1579	1799	1862
2021/10/22	15:28:00	1579	1587	1808	1859
2021/10/22	15:30:00	1585	1589	1803	1856
2021/10/22	15:32:00	1577	1589	1799	1858
2021/10/22	15:34:00	1569	1579	1800	1858
2021/10/22	15:36:00	1571	1577	1797	1852
2021/10/22	15:38:00	1562	1576	1800	1850
2021/10/22	15:40:00	1572	1594	1800	1850
2021/10/22	15:42:00	1578	1597	1791	1850

2021/10/22	15:44:00	1577	1580	1791	1848
2021/10/22	15:46:00	1572	1578	1794	1839
2021/10/22	15:48:00	1565	1574	1790	1851
2021/10/22	15:50:00	1569	1586	1792	1844
2021/10/22	15:52:00	1584	1589	1792	1845
2021/10/22	15:54:00	1584	1589	1787	1842
2021/10/22	15:56:00	1572	1586	1786	1836
2021/10/22	15:58:00	1562	1572	1794	1847
2021/10/22	16:00:00	1564	1589	1779	1841

Note:"-OVER" :Anamalous data was recored during part of the time when the flare was offline due to PG&E power outage. Power to the flare equipment was switched off for some time as a safety measure and to avoid potential damage to the equipment.

Attachment B  
Copy of GRDF RCA Forms for RCA Numbers 08C52 and 08C55



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

October 21, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on October 20, 2021, ~ 5:40 PM. A breakdown report was submitted to Bay Area Air Quality Management District (BAAQMD) on October 20, 2021 at ~9:15 PM via the afterhours phone line by GRDF about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On October 21, 2021 at ~11:50 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~5:40 PM on 10/20/2021	Clear Time	10/21/2021~11:50 AM
Monitor/device type(s)	<input type="checkbox"/> CEM <input type="checkbox"/> GLM <input type="checkbox"/> Parametric <input type="checkbox"/> PRD <input type="checkbox"/> Non-monitor		

Monitor description(s)

Parameter(s) exceeded or not functioning due to inoperation

<input type="checkbox"/> NO <sub>x</sub>	<input type="checkbox"/> SO <sub>2</sub>	<input type="checkbox"/> CO	<input type="checkbox"/> CO <sub>2</sub>	<input type="checkbox"/> H <sub>2</sub> S	<input type="checkbox"/> TRS	<input type="checkbox"/> NH <sub>3</sub>
<input type="checkbox"/> O <sub>2</sub>	<input type="checkbox"/> H <sub>2</sub> O	<input type="checkbox"/> Opacity	<input type="checkbox"/> Lead	<input type="checkbox"/> Gauge Pressure	<input type="checkbox"/> Flow	
<input type="checkbox"/> Hydrocarbon Breakthrough (VOC)		<input type="checkbox"/> Temperature	<input type="checkbox"/> Wind Speed			
<input type="checkbox"/> Wind Direction		<input type="checkbox"/> Steam	<input checked="" type="checkbox"/> Other (describe) Power outage			

Unit(s) of Measurement

<input type="checkbox"/> ppm	<input type="checkbox"/> ppb	<input type="checkbox"/> min/hr > 20%	<input type="checkbox"/> inches H <sub>2</sub> O	<input type="checkbox"/> mmHg
<input type="checkbox"/> psig	<input type="checkbox"/> pH	<input type="checkbox"/> °Fahrenheit	<input type="checkbox"/> Other (describe) Power outage	

Event Description:

A breakdown report was submitted on 10/20/2021 at~ 9:15 PM via afterhours phone line by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 10/21/2021.

### District Use Only

Received by

Date

Time

### General Instructions



- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Erin Phillips](#)  
**Subject:** [EXTERNAL] Re: GRDF A3294-RCA for PG&E power outage  
**Date:** Thursday, October 21, 2021 2:01:14 PM

---

Good afternoon, I am confirming receipt and letting you know the RCA number for your notification is 08C52

Thanks!

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Thursday, October 21, 2021 8:08 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Phadnis, Rajan <rphadnis@wm.com>; Perez, Enrique <pperez3@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>  
**Subject:** GRDF A3294-RCA for PG&E power outage

**CAUTION:** This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 10/20/2021, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,  
Rajan Phadnis  
EP Specialist  
Guadalupe Recycling and Disposal Facility

---

**Recycling is a good thing. Please recycle any printed emails.**



October 22, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Addendum to Reportable Compliance Activity (RCA 08C52) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Addendum Reportable Compliance Activity (RCA) to the previously submitted RCA Form (BAAQMD assigned RCA Number 08C52) for temporary flare shutdown event caused by unplanned utility power interruption on October 20, 2021, ~ 5:40 PM and on October 22, 2021 ~6:00 AM. A breakdown report was submitted to Bay Area Air Quality Management District (BAAQMD) on October 20, 2021 at ~9:15 PM via the afterhours phone line by GRDF about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

The power to the site was restored on October 21, 2021 at ~11:50 AM and on October 22, 2021 at ~1:30 PM and the GCCS was online. The shutdown events were unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: Addendum to RCA Form GRDF Facility A3294



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

ADDENDUM to RCA Number 08C52 (10/21/2021)-  
Submittal 10/22/2021

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~5:40 PM on 10/20/2021; and ~ 6:00 AM on 10/22/2021	Clear Time	10/21/2021~11:50 AM; and 10/22/2021~1:30 PM
Monitor/device type(s)	<input type="checkbox"/> CEM <input type="checkbox"/> GLM <input type="checkbox"/> Parametric <input type="checkbox"/> PRD <input type="checkbox"/> Non-monitor		
Monitor description(s)			
Parameter(s) exceeded or not functioning due to inoperation	<input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> SO <sub>2</sub> <input type="checkbox"/> CO <input type="checkbox"/> CO <sub>2</sub> <input type="checkbox"/> H <sub>2</sub> S <input type="checkbox"/> TRS <input type="checkbox"/> NH <sub>3</sub> <input type="checkbox"/> O <sub>2</sub> <input type="checkbox"/> H <sub>2</sub> O <input type="checkbox"/> Opacity <input type="checkbox"/> Lead <input type="checkbox"/> Gauge Pressure <input type="checkbox"/> Flow <input type="checkbox"/> Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> Temperature <input type="checkbox"/> Wind Speed <input type="checkbox"/> Wind Direction <input type="checkbox"/> Steam <input checked="" type="checkbox"/> Other (describe) Power outage		
Unit(s) of Measurement	<input type="checkbox"/> ppm <input type="checkbox"/> ppb <input type="checkbox"/> min/hr > 20% <input type="checkbox"/> inches H <sub>2</sub> O <input type="checkbox"/> mmHg <input type="checkbox"/> psig <input type="checkbox"/> pH <input type="checkbox"/> °Fahrenheit <input type="checkbox"/> Other (describe) Power outage		

#### Event Description:

A breakdown report was submitted on 10/20/2021 at~ 9:15 PM via afterhours phone line by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 10/22/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Subject:** [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outages  
**Date:** Friday, October 22, 2021 2:21:31 PM

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ID# 08C55

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**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Friday, October 22, 2021 2:04 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>  
**Subject:** GRDF A3294-RCA for PG&E power outages

**CAUTION:** This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the addendum RCA notification form for unplanned PG&E power outages on 10/20/21 and 10/22/2021, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,  
Rajan Phadnis  
EP Specialist  
Guadalupe Recycling and Disposal Facility

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**Recycling is a good thing. Please recycle any printed emails.**



**Guadalupe Rubbish  
Disposal Co., Inc.**  
15999 Guadalupe Mines Road  
P.O. Box 20957  
San Jose, CA 95160

November 12, 2021 ([via email: compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: RCA 30-Day Report

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294  
Request for Breakdown Relief for RCA Numbers 08C52 and 08C55  
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E power outage on October 20 and 22, 2021 report.

A breakdown report (Per Regulation 1, Section 431) was submitted on October 20, 2021, at around 9:15 PM via afterhours phone line by GRDF because the landfill gas collection and control system (GCCS) was temporarily shut down due to the PG&E power outage. The flare was online on Thursday, October 21, 2021 around 11:50 AM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for the October 20 and 22, 2021 PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on October 21 and amended on October 22, 2021 and were assigned RCA numbers 08C52 and 08C55 (see Attachment B for copies of RCA submittals).

The unplanned power outage shutdown events noted in original and amended RCA forms submitted on October 21 and 22, 2021, did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.



GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF has placed the purchase order for a permanent generator (delayed due to the COVID-19 emergency and related supply chain disruptions) and the suppliers anticipate the unit to be delivered by the fourth quarter of 2022. Currently, GRDF is working on BAAQMD permit application for the generator and Automatic Transfer Switch (ATS) electrical permit as required by the City of San Jose.

If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,

Guadalupe Recycling & Disposal Facility

Enrique Perez  
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data

Attachment B- Copy of GRDF RCA Forms -Numbers 08C52 and 08C55

Attachment A  
GRDF flare data

Guadalupe Landfill Flare A17

Date	Time	Flare		Flare	
		°F MIN	MAX	SCFM MIN	MAX
2021/10/20	15:00:00	1563	1608	1592	1647
2021/10/20	15:02:00	1549	1570	1606	1644
2021/10/20	15:04:00	1570	1611	1597	1648
2021/10/20	15:06:00	1565	1606	1604	1653
2021/10/20	15:08:00	1561	1577	1595	1644
2021/10/20	15:10:00	1577	1602	1600	1645
2021/10/20	15:12:00	1556	1601	1588	1645
2021/10/20	15:14:00	1548	1592	1601	1647
2021/10/20	15:16:00	1584	1611	1600	1647
2021/10/20	15:18:00	1548	1584	1588	1637
2021/10/20	15:20:00	1550	1623	1593	1647
2021/10/20	15:22:00	1548	1624	1595	1648
2021/10/20	15:24:00	1544	1594	1582	1644
2021/10/20	15:26:00	1572	1613	1597	1642
2021/10/20	15:28:00	1558	1572	1595	1641
2021/10/20	15:30:00	1570	1584	1595	1642
2021/10/20	15:32:00	1584	1592	1597	1642
2021/10/20	15:34:00	1572	1589	1592	1647
2021/10/20	15:36:00	1568	1572	1594	1644
2021/10/20	15:38:00	1565	1575	1594	1639
2021/10/20	15:40:00	1575	1587	1594	1645
2021/10/20	15:42:00	1580	1584	1591	1644
2021/10/20	15:44:00	1584	1587	1591	1642
2021/10/20	15:46:00	1575	1584	1594	1645
2021/10/20	15:48:00	1568	1577	1588	1637
2021/10/20	15:50:00	1568	1580	1601	1650
2021/10/20	15:52:00	1580	1590	1591	1642
2021/10/20	15:54:00	1578	1589	1597	1641
2021/10/20	15:56:00	1565	1578	1586	1642
2021/10/20	15:58:00	1568	1575	1597	1639
2021/10/20	16:00:00	1575	1587	1597	1642
2021/10/20	16:02:00	1584	1592	1591	1639
2021/10/20	16:04:00	1566	1584	1588	1650
2021/10/20	16:06:00	1568	1575	1594	1644
2021/10/20	16:08:00	1575	1590	1591	1653
2021/10/20	16:10:00	1575	1594	1592	1645
2021/10/20	16:12:00	1565	1575	1589	1654
2021/10/20	16:14:00	1563	1587	1582	1637
2021/10/20	16:16:00	1587	1597	1597	1642
2021/10/20	16:18:00	1566	1592	1594	1639
2021/10/20	16:20:00	1563	1573	1601	1639
2021/10/20	16:22:00	1572	1587	1597	1642
2021/10/20	16:24:00	1587	1592	1583	1636
2021/10/20	16:26:00	1573	1587	1594	1638
2021/10/20	16:28:00	1568	1573	1591	1639
2021/10/20	16:30:00	1568	1575	1592	1641

2021/10/20	16:32:00	1575	1590	1592	1641
2021/10/20	16:34:00	1584	1589	1589	1645
2021/10/20	16:36:00	1575	1585	1594	1641
2021/10/20	16:38:00	1568	1575	1595	1639
2021/10/20	16:40:00	1568	1573	1583	1637
2021/10/20	16:42:00	1573	1590	1594	1639
2021/10/20	16:44:00	1582	1594	1594	1639
2021/10/20	16:46:00	1565	1582	1584	1641
2021/10/20	16:48:00	1561	1587	1594	1645
2021/10/20	16:50:00	1587	1607	1598	1641
2021/10/20	16:52:00	1551	1595	1591	1641
2021/10/20	16:54:00	1551	1589	1587	1636
2021/10/20	16:56:00	1589	1603	1591	1637
2021/10/20	16:58:00	1565	1590	1586	1642
2021/10/20	17:00:00	1563	1580	1591	1636
2021/10/20	17:02:00	1580	1597	1586	1642
2021/10/20	17:04:00	1561	1598	1592	1636
2021/10/20	17:06:00	1549	1573	1597	1639
2021/10/20	17:08:00	1573	1606	1592	1634
2021/10/20	17:10:00	1559	1604	1589	1636
2021/10/20	17:12:00	1551	1578	1594	1637
2021/10/20	17:14:00	1578	1606	1584	1641
2021/10/20	17:16:00	1561	1602	1586	1639
2021/10/20	17:18:00	1559	1580	1594	1639
2021/10/20	17:20:00	1580	1599	1588	1634
2021/10/20	17:22:00	1572	1600	1591	1641
2021/10/20	17:24:00	1555	1572	1591	1637
2021/10/20	17:26:00	1559	1590	1586	1639
2021/10/20	17:28:00	1589	1602	1589	1637
2021/10/20	17:30:00	1560	1589	1587	1637
2021/10/20	17:32:00	1559	1582	1584	1637
2021/10/20	17:34:00	1582	1597	1592	1639
2021/10/20	17:36:00	1561	1596	1589	1637
2021/10/20	17:38:00	1366	1631	0	1633
2021/10/20	17:40:00	1041	1366	0	1
2021/10/20	17:42:00	832	1041	0	1
2021/10/20	17:44:00	684	832	-1	2
2021/10/20	17:46:00	579	684	-1	1
2021/10/20	17:48:00	501	579	0	1
2021/10/20	17:50:00	440	501	0	1
2021/10/20	17:52:00	390	440	-1	1
2021/10/20	17:54:00	349	391	-1	1
2021/10/20	17:56:00	314	349	-1	1
2021/10/20	17:58:00	284	314	-1	1
2021/10/20	18:00:00	259	284	-1	1
2021/10/20	18:02:00	237	259	-1	1
2021/10/20	18:04:00	218	237	-1	1
2021/10/20	18:06:00	202	218	-1	1
2021/10/20	18:08:00	188	202	-1	1
2021/10/20	18:10:00	176	188	-1	1
2021/10/20	18:12:00	165	176	-1	1
2021/10/20	18:14:00	155	165	-1	1
2021/10/20	18:16:00	147	155	-1	1

2021/10/20	18:18:00	139	147	-1	1
2021/10/20	18:20:00	133	139	-1	1
2021/10/20	18:22:00	127	133	-1	1
2021/10/20	18:24:00	121	127	-1	1
2021/10/20	18:26:00	116	121	-1	1
2021/10/20	18:28:00	111	116	-1	1
2021/10/20	18:30:00	107	111	-1	1
2021/10/20	18:32:00	104	107	-1	1
2021/10/20	18:34:00	101	104	-1	1
2021/10/20	18:36:00	98	101	-1	1
2021/10/20	18:38:00	95	98	-1	1
2021/10/20	18:40:00	93	95	-1	1
2021/10/20	18:42:00	91	93	-1	1
2021/10/20	18:44:00	89	91	-1	1
2021/10/20	18:46:00	87	89	-1	1
2021/10/20	18:48:00	85	87	-1	1
2021/10/20	18:50:00	84	85	-1	1
2021/10/20	18:52:00	83	84	-1	0
2021/10/20	18:54:00	81	83	-1	1
2021/10/20	18:56:00	80	81	-1	1
2021/10/20	18:58:00	79	80	-1	1
2021/10/20	19:00:00	78	79	-1	0
2021/10/20	19:02:00	77	78	-1	1
2021/10/20	19:04:00	77	77	-1	1
2021/10/20	19:06:00	76	77	-1	1
2021/10/20	19:08:00	75	76	-1	1
2021/10/20	19:10:00	75	75	-1	1
2021/10/20	19:12:00	74	75	-1	0
2021/10/20	19:14:00	74	74	-1	0
2021/10/20	19:16:00	73	74	-1	1
2021/10/20	19:18:00	73	73	-1	0
2021/10/20	19:20:00	72	73	-1	1
2021/10/20	19:22:00	72	72	-1	1
2021/10/20	19:24:00	71	72	-1	0
2021/10/20	19:26:00	71	71	-1	0
2021/10/20	19:28:00	70	71	-1	1
2021/10/20	19:30:00	70	70	-1	0
2021/10/20	19:32:00	70	70	-1	1
2021/10/20	19:34:00	69	70	-1	1
2021/10/20	19:36:00	69	70	-1	0
2021/10/20	19:38:00	69	70	-2	0
2021/10/20	19:40:00	68	70	-1	0
2021/10/20	19:42:00	68	69	-1	0
2021/10/20	19:44:00	68	68	-1	0
2021/10/20	19:46:00	68	68	-1	0
2021/10/20	19:48:00	67	68	-1	0
2021/10/20	19:50:00	67	68	-1	0
2021/10/20	19:52:00	67	67	-1	0
2021/10/20	19:54:00	67	67	-1	0
2021/10/20	19:56:00	66	67	-1	1
2021/10/20	19:58:00	66	67	-1	0
2021/10/20	20:00:00	66	66	-1	1
2021/10/20	20:02:00	66	66	-1	0

2021/10/20	20:04:00	66	66	-1	0
2021/10/20	20:06:00	66	66	-1	0
2021/10/20	20:08:00	65	66	-1	1
2021/10/20	20:10:00	65	66	-1	1
2021/10/20	20:12:00	65	65	-1	1
2021/10/20	20:14:00	65	65	-1	0
2021/10/20	20:16:00	65	65	-1	1
2021/10/20	20:18:00	65	65	-1	0
2021/10/20	20:20:00	65	65	-1	1
2021/10/20	20:22:00	64	65	-1	0
2021/10/20	20:24:00	64	65	-1	1
2021/10/20	20:26:00	64	65	-1	0
2021/10/20	20:28:00	64	65	-1	1
2021/10/20	20:30:00	64	65	-1	0
2021/10/20	20:32:00	64	65	-1	1
2021/10/20	20:34:00	63	65	-1	0
2021/10/20	20:36:00	63	65	-1	0
2021/10/20	20:38:00	63	63	-1	1
2021/10/20	20:40:00	63	63	-1	1
2021/10/20	20:42:00	63	63	-1	0
2021/10/20	20:44:00	63	63	-1	0
2021/10/20	20:46:00	62	63	-1	0
2021/10/20	20:48:00	62	63	-1	0
2021/10/20	20:50:00	62	63	-1	0
2021/10/20	20:52:00	62	63	-1	0
2021/10/20	20:54:00	62	63	-1	0
2021/10/20	20:56:00	62	63	-1	0
2021/10/20	20:58:00	62	63	-1	0
2021/10/20	21:00:00	62	63	-1	0
2021/10/20	21:02:00	62	63	-1	0
2021/10/20	21:04:00	62	63	-1	0
2021/10/20	21:06:00	62	63	-1	0
2021/10/20	21:08:00	62	63	-2	0
2021/10/20	21:10:00	62	63	-1	0
2021/10/20	21:12:00	62	63	-1	0
2021/10/20	21:14:00	62	63	-1	1
2021/10/20	21:16:00	62	63	-1	0
2021/10/20	21:18:00	62	63	-1	0
2021/10/20	21:20:00	62	63	-1	0
2021/10/20	21:22:00	62	63	-1	0
2021/10/20	21:24:00	62	63	-1	0
2021/10/20	21:26:00	62	63	-1	0
2021/10/20	21:28:00	62	63	-1	1
2021/10/20	21:30:00	62	63	-1	1
2021/10/20	21:32:00	61	63	-1	0
2021/10/20	21:34:00	61	63	-1	0
2021/10/20	21:36:00	61	63	-1	0
2021/10/20	21:38:00	61	63	-1	0
2021/10/20	21:40:00	61	63	-1	0
2021/10/20	21:42:00	61	62	-1	0
2021/10/20	21:44:00	61	62	-1	0
2021/10/20	21:46:00	61	61	-1	0
2021/10/20	21:48:00	61	61	-1	0

2021/10/20	21:50:00	61	61	-1	0
2021/10/20	21:52:00	61	61	-1	0
2021/10/20	21:54:00	61	61	-1	0
2021/10/20	21:56:00	61	61	-1	0
2021/10/20	21:58:00	61	61	-1	0
2021/10/20	22:00:00	61	61	-1	0
2021/10/20	22:02:00	61	61	-1	0
2021/10/20	22:04:00	61	61	-1	0
2021/10/20	22:06:00	61	61	-1	1
2021/10/20	22:08:00	61	61	-1	0
2021/10/20	22:10:00	61	61	-1	0
2021/10/20	22:12:00	61	61	-2	0
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2021/10/20	22:16:00	61	61	-1	0
2021/10/20	22:18:00	61	61	-1	0
2021/10/20	22:20:00	61	61	-1	1
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2021/10/20	22:24:00	-OVER	61	-OVER	0
2021/10/20	22:26:00	61	61	-1	0
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2021/10/20	22:30:00	-OVER	61	-OVER	0
2021/10/20	22:32:00	-OVER	61	-OVER	0
2021/10/20	22:34:00	-OVER	61	-OVER	0
2021/10/20	22:36:00	61	61	-1	0
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2021/10/20	22:44:00	60	61	-2	0
2021/10/20	22:46:00	-OVER	61	-OVER	0
2021/10/20	22:48:00	-OVER	61	-OVER	0
2021/10/20	22:50:00	61	61	-1	0
2021/10/20	22:52:00	61	61	-1	0
2021/10/20	22:54:00	-OVER	61	-OVER	3
2021/10/20	22:56:00	61	61	-1	0
2021/10/20	22:58:00	-OVER	61	-OVER	0
2021/10/20	23:00:00	-326	61	-1	0
2021/10/20	23:02:00	61	61	-1	0
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2021/10/20	23:30:00	61	61	-2	0
2021/10/20	23:32:00	61	61	-1	0
2021/10/20	23:34:00	61	61	-2	0

2021/10/20	23:36:00	61	61	-1	0
2021/10/20	23:38:00	61	61	-1	0
2021/10/20	23:40:00	61	61	-1	0
2021/10/20	23:42:00	61	61	-1	0
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2021/10/20	23:54:00	60	60	-1	0
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2021/10/21	00:12:00	-OVER	61	-OVER	0
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2021/10/21	00:16:00	60	61	-1	0
2021/10/21	00:18:00	61	61	-2	0
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2021/10/21	01:04:00	61	61	-1	0
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2021/10/21	01:08:00	61	61	-1	0
2021/10/21	01:10:00	61	61	-1	0
2021/10/21	01:12:00	-OVER	61	-OVER	3038
2021/10/21	01:14:00	-326	61	-1	0
2021/10/21	01:16:00	61	61	-2	0
2021/10/21	01:18:00	61	61	-1	0
2021/10/21	01:20:00	-OVER	61	-OVER	0



2021/10/21	01:22:00	-OVER	61	-OVER	0
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2021/10/21	01:26:00	-326	61	-1	0
2021/10/21	01:28:00	-OVER	63	-OVER	0
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2021/10/21	02:38:00	-OVER	61	-OVER	3
2021/10/21	02:40:00	61	61	-2	0
2021/10/21	02:42:00	-OVER	61	-OVER	0
2021/10/21	02:44:00	-OVER	61	-OVER	0
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2021/10/21	02:52:00	-OVER	63	-OVER	4
2021/10/21	02:54:00	61	63	-1	0
2021/10/21	02:56:00	-OVER	63	-OVER	0
2021/10/21	02:58:00	-326	63	-1	3
2021/10/21	03:00:00	61	63	-1	0
2021/10/21	03:02:00	61	63	-1	0
2021/10/21	03:04:00	-OVER	63	-OVER	0
2021/10/21	03:06:00	61	63	-180	-178

2021/10/21	03:08:00	61	63	-180	-178
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2021/10/21	03:12:00	61	63	-180	-178
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2021/10/21	03:50:00	-OVER	61	-OVER	0
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2021/10/21	04:12:00	-OVER	61	-OVER	4
2021/10/21	04:14:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	04:16:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	04:18:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	04:20:00	-OVER	-OVER	-OVER	-OVER
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2021/10/21	04:26:00	-OVER	-326	-OVER	-1
2021/10/21	04:28:00	-OVER	63	-OVER	0
2021/10/21	04:30:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	04:32:00	-OVER	63	-OVER	-1
2021/10/21	04:34:00	-OVER	63	-OVER	0
2021/10/21	04:36:00	-OVER	63	-OVER	0
2021/10/21	04:38:00	-OVER	63	-OVER	0
2021/10/21	04:40:00	-OVER	-326	-OVER	0
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2021/10/21	04:58:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:00:00	-OVER	-OVER	-OVER	-OVER
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2021/10/21	05:06:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	05:08:00	-OVER	63	-OVER	0
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2021/10/21	06:12:00	-OVER	64	-OVER	0
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2021/10/21	06:16:00	-OVER	64	-OVER	0
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2021/10/21	06:24:00	-OVER	63	-OVER	0
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2021/10/21	06:28:00	63	63	-1	0
2021/10/21	06:30:00	-OVER	63	-OVER	0
2021/10/21	06:32:00	-OVER	63	-OVER	0
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2021/10/21	06:38:00	63	63	-2	1

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2021/10/21	06:58:00	-OVER	63	-OVER	6
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2021/10/21	07:06:00	63	63	-1	1
2021/10/21	07:08:00	63	63	-1	1
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2021/10/21	07:26:00	-OVER	63	-OVER	2
2021/10/21	07:28:00	63	63	-1	1
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2021/10/21	07:32:00	63	63	-1	1
2021/10/21	07:34:00	63	63	-1	0
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2021/10/21	07:38:00	63	63	-1	0
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2021/10/21	07:42:00	63	63	-1	0
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2021/10/21	07:46:00	63	63	-1	0
2021/10/21	07:48:00	63	63	-1	1
2021/10/21	07:50:00	63	63	-1	0
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2021/10/21	08:04:00	63	63	-1	1
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2021/10/21	08:12:00	63	63	-1	1
2021/10/21	08:14:00	63	63	-1	0
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2021/10/21	08:18:00	63	63	-1	0
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2021/10/21	08:22:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	08:24:00	-OVER	-OVER	-OVER	-OVER

2021/10/21	08:26:00	-OVER	-OVER	-OVER	-OVER
2021/10/21	08:28:00	-OVER	65	-OVER	1
2021/10/21	08:30:00	63	65	-1	1
2021/10/21	08:32:00	65	65	-1	1
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2021/10/21	09:34:00	65	65	-1	1
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2021/10/21	09:38:00	65	87	0	1370
2021/10/21	09:40:00	87	143	0	1
2021/10/21	09:42:00	143	155	0	0
2021/10/21	09:44:00	151	155	0	0
2021/10/21	09:46:00	142	152	0	0
2021/10/21	09:48:00	133	142	0	0
2021/10/21	09:50:00	128	169	0	1366
2021/10/21	09:52:00	169	253	0	0
2021/10/21	09:54:00	253	266	0	1
2021/10/21	09:56:00	251	265	0	1
2021/10/21	09:58:00	232	251	0	0
2021/10/21	10:00:00	213	232	0	1
2021/10/21	10:02:00	196	213	0	0
2021/10/21	10:04:00	181	196	0	0
2021/10/21	10:06:00	168	181	0	1337
2021/10/21	10:08:00	171	295	0	1358
2021/10/21	10:10:00	295	321	0	0

2021/10/21	10:12:00	298	319	0	1
2021/10/21	10:14:00				
2021/10/21	10:16:00				
2021/10/21	10:18:00				
2021/10/21	10:20:00				
2021/10/21	10:22:00				
2021/10/21	10:24:00				
2021/10/21	10:26:00				
2021/10/21	10:28:00				
2021/10/21	10:30:00				
2021/10/21	10:32:00				
2021/10/21	10:34:00				
2021/10/21	10:36:00	116	120	-2	-1
2021/10/21	10:38:00	110	116	-1	0
2021/10/21	10:40:00	105	111	0	0
2021/10/21	10:42:00				
2021/10/21	10:44:00				
2021/10/21	10:46:00	96	97	-1	0
2021/10/21	10:48:00	94	96	0	0
2021/10/21	10:50:00	92	94	0	0
2021/10/21	10:52:00	90	92	0	1
2021/10/21	10:54:00	90	131	0	1364
2021/10/21	10:56:00	131	238	0	1
2021/10/21	10:58:00	238	261	1	1
2021/10/21	11:00:00	249	261	1	1
2021/10/21	11:02:00	229	232	-183	-183
2021/10/21	11:04:00	212	229	-186	41
2021/10/21	11:06:00	195	212	1	1
2021/10/21	11:08:00	180	195	1	1
2021/10/21	11:10:00	167	180	1	1
2021/10/21	11:12:00	155	167	1	1
2021/10/21	11:14:00	145	155	1	1
2021/10/21	11:16:00	136	145	1	1
2021/10/21	11:18:00	128	136	1	1
2021/10/21	11:20:00	121	128	1	1
2021/10/21	11:22:00	116	121	1	1
2021/10/21	11:24:00	112	121	1	1373
2021/10/21	11:26:00	121	1921	1372	2606
2021/10/21	11:28:00	1538	1920	1869	2327
2021/10/21	11:30:00	1522	1601	1811	1880
2021/10/21	11:32:00	1560	1610	1817	1858
2021/10/21	11:34:00	1545	1560	1799	1847
2021/10/21	11:36:00	1553	1616	1779	1838
2021/10/21	11:38:00	1559	1615	1768	1830
2021/10/21	11:40:00	1544	1572	1764	1809
2021/10/21	11:42:00	1572	1587	1758	1800
2021/10/21	11:44:00	1566	1585	1752	1802
2021/10/21	11:46:00	1558	1585	1755	1796
2021/10/21	11:48:00	1585	1602	1747	1799
2021/10/21	11:50:00	1566	1597	1728	1794
2021/10/21	11:52:00	1561	1575	1735	1787
2021/10/21	11:54:00	1575	1587	1729	1791
2021/10/21	11:56:00	1577	1585	1731	1781

2021/10/21	11:58:00	1566	1582	1729	1779
2021/10/21	12:00:00	1582	1587	1729	1775
2021/10/21	12:02:00	1572	1582	1717	1767
2021/10/21	12:04:00	1566	1577	1707	1763
2021/10/21	12:06:00	1566	1597	1714	1762
2021/10/21	12:08:00	1589	1600	1714	1756
2021/10/21	12:10:00	1575	1589	1705	1755
2021/10/21	12:12:00	1568	1575	1714	1763
2021/10/21	12:14:00	1567	1577	1710	1766
2021/10/21	12:16:00	1577	1585	1705	1767
2021/10/21	12:18:00	1585	1592	1710	1764
2021/10/21	12:20:00	1578	1589	1707	1757
2021/10/21	12:22:00	1555	1578	1711	1756
2021/10/21	12:24:00	1555	1594	1704	1744
2021/10/21	12:26:00	1587	1621	1704	1744
2021/10/21	12:28:00	1552	1587	1704	1756
2021/10/21	12:30:00	1565	1599	1697	1742
2021/10/21	12:32:00	1575	1604	1704	1749
2021/10/21	12:34:00	1561	1575	1705	1756
2021/10/21	12:36:00	1560	1593	1701	1744
2021/10/21	12:38:00	1589	1599	1691	1740
2021/10/21	12:40:00	1566	1589	1690	1753
2021/10/21	12:42:00	1565	1570	1688	1748
2021/10/21	12:44:00	1570	1598	1698	1752
2021/10/21	12:46:00	1585	1603	1692	1753
2021/10/21	12:48:00	1567	1585	1692	1741
2021/10/21	12:50:00	1567	1569	1691	1737
2021/10/21	12:52:00	1568	1590	1692	1752
2021/10/21	12:54:00	1590	1595	1698	1741
2021/10/21	12:56:00	1557	1590	1692	1740
2021/10/21	12:58:00	1553	1586	1693	1731
2021/10/21	13:00:00	1586	1606	1699	1747
2021/10/21	13:02:00	1561	1597	1690	1746
2021/10/21	13:04:00	1557	1576	1686	1742
2021/10/21	13:06:00	1576	1591	1683	1736
2021/10/21	13:08:00	1583	1591	1683	1734
2021/10/21	13:10:00	1574	1583	1692	1733
2021/10/21	13:12:00	1574	1579	1689	1743
2021/10/21	13:14:00	1572	1577	1690	1737
2021/10/21	13:16:00	1575	1579	1689	1732
2021/10/21	13:18:00	1568	1578	1683	1725
2021/10/21	13:20:00	1570	1583	1683	1737
2021/10/21	13:22:00	1580	1598	1686	1731
2021/10/21	13:24:00	1556	1596	1688	1731
2021/10/21	13:26:00	1553	1575	1680	1736
2021/10/21	13:28:00	1575	1605	1680	1723
2021/10/21	13:30:00	1572	1600	1680	1723
2021/10/21	13:32:00	1565	1572	1677	1739
2021/10/21	13:34:00	1565	1583	1675	1721
2021/10/21	13:36:00	1583	1594	1677	1727

2021/10/21	13:38:00	1576	1591	1678	1725
2021/10/21	13:40:00	1569	1576	1676	1725
2021/10/21	13:42:00	1574	1579	1672	1734
2021/10/21	13:44:00	1572	1577	1675	1728
2021/10/21	13:46:00	1576	1581	1680	1717
2021/10/21	13:48:00	1577	1584	1677	1730
2021/10/21	13:50:00	1577	1582	1677	1722
2021/10/21	13:52:00	1579	1584	1683	1734
2021/10/21	13:54:00	1579	1584	1674	1713
2021/10/21	13:56:00	1569	1583	1671	1722
2021/10/21	13:58:00	1571	1578	1678	1727
2021/10/21	14:00:00	1577	1583	1681	1733

Note:"-OVER" :Anamalous data was recored during part of the time when the flare was offline due to PG&E power outage.



Guadalupe Landfill Flare A17

Date	Time	Flare		Flare	
		°F MIN	MAX	SCFM MIN	MAX
2021/10/22	05:00:00	1581	1588	1539	1592
2021/10/22	05:02:00	1561	1581	1547	1586
2021/10/22	05:04:00	1559	1568	1545	1596
2021/10/22	05:06:00	1562	1597	1545	1596
2021/10/22	05:08:00	1594	1601	1550	1593
2021/10/22	05:10:00	1566	1595	1542	1589
2021/10/22	05:12:00	1571	1587	1539	1587
2021/10/22	05:14:00	1571	1587	1534	1586
2021/10/22	05:16:00	1572	1586	1536	1583
2021/10/22	05:18:00	1553	1575	1527	1581
2021/10/22	05:20:00	1575	1588	1533	1578
2021/10/22	05:22:00	1584	1589	1535	1580
2021/10/22	05:24:00	1575	1586	1528	1573
2021/10/22	05:26:00	1574	1578	1531	1584
2021/10/22	05:28:00	1572	1577	1533	1573
2021/10/22	05:30:00	1576	1581	1531	1583
2021/10/22	05:32:00	1572	1576	1537	1584
2021/10/22	05:34:00	1575	1604	1533	1583
2021/10/22	05:36:00	1543	1601	1528	1576
2021/10/22	05:38:00	1538	1582	1533	1575
2021/10/22	05:40:00	1582	1613	1527	1575
2021/10/22	05:42:00	1569	1609	1536	1578
2021/10/22	05:44:00	1566	1573	1528	1577
2021/10/22	05:46:00	1559	1571	1522	1576
2021/10/22	05:48:00	1557	1634	1522	1566
2021/10/22	05:50:00	1548	1639	1524	1567
2021/10/22	05:52:00	1542	1617	1517	1566
2021/10/22	05:54:00	1573	1630	1524	1572
2021/10/22	05:56:00	1551	1573	1527	1570
2021/10/22	05:58:00	-OVER	1584	-OVER	1573
2021/10/22	06:00:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:02:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:04:00	-OVER	-326	-OVER	0
2021/10/22	06:06:00	-OVER	-326	-OVER	0
2021/10/22	06:08:00	-OVER	581	-OVER	0
2021/10/22	06:10:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:12:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:14:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:16:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:18:00	-OVER	280	-OVER	-1
2021/10/22	06:20:00	-OVER	278	-OVER	0
2021/10/22	06:22:00	-OVER	-326	-OVER	1
2021/10/22	06:24:00	-OVER	228	-OVER	3174
2021/10/22	06:26:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:28:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:30:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:32:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:34:00	-OVER	-OVER	-OVER	-OVER

2021/10/22	06:36:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:38:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:40:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:42:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:44:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:46:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:48:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:50:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	06:52:00	-OVER	93	-OVER	-1
2021/10/22	06:54:00	-OVER	92	-OVER	0
2021/10/22	06:56:00	-OVER	87	-OVER	0
2021/10/22	06:58:00	-OVER	85	-OVER	43
2021/10/22	07:00:00	-OVER	83	-OVER	41
2021/10/22	07:02:00	-OVER	80	-OVER	0
2021/10/22	07:04:00	-OVER	77	-OVER	3622
2021/10/22	07:06:00	73	76	-2	0
2021/10/22	07:08:00	73	75	-2	0
2021/10/22	07:10:00	-OVER	73	-OVER	0
2021/10/22	07:12:00	-OVER	-OVER	-OVER	-OVER
2021/10/22	07:14:00	-OVER	70	-OVER	0
2021/10/22	07:16:00	-OVER	70	-OVER	0
2021/10/22	07:18:00	-OVER	69	-OVER	0
2021/10/22	07:20:00	-OVER	68	-OVER	-1
2021/10/22	07:22:00	-OVER	66	-OVER	-1
2021/10/22	07:24:00	66	66	-2	0
2021/10/22	07:26:00	66	66	-2	-1
2021/10/22	07:28:00				
2021/10/22	07:30:00				
2021/10/22	07:32:00				
2021/10/22	07:34:00				
2021/10/22	07:36:00				
2021/10/22	07:38:00				
2021/10/22	07:40:00				
2021/10/22	07:42:00				
2021/10/22	07:44:00				
2021/10/22	07:46:00				
2021/10/22	07:48:00				
2021/10/22	07:50:00				
2021/10/22	07:52:00				
2021/10/22	07:54:00				
2021/10/22	07:56:00				
2021/10/22	07:58:00				
2021/10/22	08:00:00				
2021/10/22	08:02:00				
2021/10/22	08:04:00				
2021/10/22	08:06:00				
2021/10/22	08:08:00				
2021/10/22	08:10:00				
2021/10/22	08:12:00				
2021/10/22	08:14:00				
2021/10/22	08:16:00				
2021/10/22	08:18:00				
2021/10/22	08:20:00				
2021/10/22	08:22:00				
2021/10/22	08:24:00				

2021/10/22 08:26:00  
2021/10/22 08:28:00  
2021/10/22 08:30:00  
2021/10/22 08:32:00  
2021/10/22 08:34:00  
2021/10/22 08:36:00  
2021/10/22 08:38:00  
2021/10/22 08:40:00  
2021/10/22 08:42:00  
2021/10/22 08:44:00  
2021/10/22 08:46:00  
2021/10/22 08:48:00  
2021/10/22 08:50:00  
2021/10/22 08:52:00  
2021/10/22 08:54:00  
2021/10/22 08:56:00  
2021/10/22 08:58:00  
2021/10/22 09:00:00  
2021/10/22 09:02:00  
2021/10/22 09:04:00  
2021/10/22 09:06:00  
2021/10/22 09:08:00  
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2021/10/22 09:32:00  
2021/10/22 09:34:00  
2021/10/22 09:36:00  
2021/10/22 09:38:00  
2021/10/22 09:40:00  
2021/10/22 09:42:00  
2021/10/22 09:44:00  
2021/10/22 09:46:00  
2021/10/22 09:48:00  
2021/10/22 09:50:00  
2021/10/22 09:52:00  
2021/10/22 09:54:00  
2021/10/22 09:56:00  
2021/10/22 09:58:00  
2021/10/22 10:00:00  
2021/10/22 10:02:00  
2021/10/22 10:04:00  
2021/10/22 10:06:00  
2021/10/22 10:08:00  
2021/10/22 10:10:00  
2021/10/22 10:12:00  
2021/10/22 10:14:00

2021/10/22	10:16:00				
2021/10/22	10:18:00				
2021/10/22	10:20:00				
2021/10/22	10:22:00				
2021/10/22	10:24:00				
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2021/10/22	10:28:00				
2021/10/22	10:30:00				
2021/10/22	10:32:00				
2021/10/22	10:34:00				
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2021/10/22	10:38:00				
2021/10/22	10:40:00				
2021/10/22	10:42:00				
2021/10/22	10:44:00				
2021/10/22	10:46:00				
2021/10/22	10:48:00				
2021/10/22	10:50:00				
2021/10/22	10:52:00				
2021/10/22	10:54:00				
2021/10/22	10:56:00				
2021/10/22	10:58:00				
2021/10/22	11:00:00				
2021/10/22	11:02:00				
2021/10/22	11:04:00				
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2021/10/22	11:16:00				
2021/10/22	11:18:00				
2021/10/22	11:20:00				
2021/10/22	11:22:00				
2021/10/22	11:24:00				
2021/10/22	11:26:00				
2021/10/22	11:28:00				
2021/10/22	11:30:00				
2021/10/22	11:32:00				
2021/10/22	11:34:00				
2021/10/22	11:36:00				
2021/10/22	11:38:00				
2021/10/22	11:40:00				
2021/10/22	11:42:00				
2021/10/22	11:44:00				
2021/10/22	11:46:00				
2021/10/22	11:48:00				
2021/10/22	11:50:00				
2021/10/22	11:52:00	66	66	-1	0
2021/10/22	11:54:00	66	68	0	1
2021/10/22	11:56:00	67	70	0	140
2021/10/22	11:58:00	70	71	0	1
2021/10/22	12:00:00	70	71	0	1
2021/10/22	12:02:00	70	71	1	1
2021/10/22	12:04:00	70	71	1	1

2021/10/22	12:06:00	70	71	1	1
2021/10/22	12:08:00	70	70	1	1
2021/10/22	12:10:00				
2021/10/22	12:12:00	70	70	-188	38
2021/10/22	12:14:00	70	70	1	1
2021/10/22	12:16:00	69	70	1	2
2021/10/22	12:18:00				
2021/10/22	12:20:00				
2021/10/22	12:22:00	70	70	0	1
2021/10/22	12:24:00	70	70	1	1
2021/10/22	12:26:00	70	70	1	2
2021/10/22	12:28:00	70	70	1	2
2021/10/22	12:30:00	69	70	1	2
2021/10/22	12:32:00	69	70	1	2
2021/10/22	12:34:00	69	70	2	2
2021/10/22	12:36:00	69	70	2	2
2021/10/22	12:38:00				
2021/10/22	12:40:00				
2021/10/22	12:42:00				
2021/10/22	12:44:00	70	71	1	1
2021/10/22	12:46:00	71	71	1	2
2021/10/22	12:48:00	71	71	1	2
2021/10/22	12:50:00	71	71	2	2
2021/10/22	12:52:00	71	72	2	2
2021/10/22	12:54:00	72	74	2	2
2021/10/22	12:56:00	73	75	1	2
2021/10/22	12:58:00	74	75	2	2
2021/10/22	13:00:00	75	75	2	2
2021/10/22	13:02:00				
2021/10/22	13:04:00				
2021/10/22	13:06:00	75	76	1	1
2021/10/22	13:08:00	73	75	1	2
2021/10/22	13:10:00	73	84	1	1431
2021/10/22	13:12:00	84	1910	1411	2606
2021/10/22	13:14:00	1527	1908	2019	2379
2021/10/22	13:16:00	1519	1623	1981	2057
2021/10/22	13:18:00	1541	1614	1961	2020
2021/10/22	13:20:00	1546	1609	1934	2008
2021/10/22	13:22:00	1575	1609	1921	1980
2021/10/22	13:24:00	1561	1576	1910	1966
2021/10/22	13:26:00	1561	1578	1901	1960
2021/10/22	13:28:00	1578	1589	1895	1947
2021/10/22	13:30:00	1584	1592	1883	1933
2021/10/22	13:32:00	1562	1585	1882	1937
2021/10/22	13:34:00	1555	1575	1873	1930
2021/10/22	13:36:00	1575	1603	1871	1925
2021/10/22	13:38:00	1570	1603	1865	1916
2021/10/22	13:40:00	1565	1570	1863	1913
2021/10/22	13:42:00	1568	1578	1858	1915
2021/10/22	13:44:00	1577	1580	1862	1909
2021/10/22	13:46:00	1580	1586	1857	1900
2021/10/22	13:48:00	1569	1585	1857	1913
2021/10/22	13:50:00	1572	1594	1854	1904
2021/10/22	13:52:00	1579	1594	1857	1907
2021/10/22	13:54:00	1572	1579	1854	1910

2021/10/22	13:56:00	1548	1573	1846	1901
2021/10/22	13:58:00	1552	1625	1835	1880
2021/10/22	14:00:00	1551	1615	1839	1891
2021/10/22	14:02:00	1548	1594	1833	1886
2021/10/22	14:04:00	1589	1605	1830	1882
2021/10/22	14:06:00	1567	1589	1836	1891
2021/10/22	14:08:00	1562	1574	1835	1891
2021/10/22	14:10:00	1571	1607	1837	1886
2021/10/22	14:12:00	1571	1609	1830	1883
2021/10/22	14:14:00	1560	1571	1832	1888
2021/10/22	14:16:00	1568	1601	1835	1883
2021/10/22	14:18:00	1580	1602	1834	1878
2021/10/22	14:20:00	1562	1580	1827	1877
2021/10/22	14:22:00	1567	1581	1821	1874
2021/10/22	14:24:00	1581	1598	1822	1869
2021/10/22	14:26:00	1571	1598	1821	1877
2021/10/22	14:28:00	1565	1571	1821	1866
2021/10/22	14:30:00	1565	1597	1820	1875
2021/10/22	14:32:00	1586	1606	1827	1872
2021/10/22	14:34:00	1564	1587	1815	1882
2021/10/22	14:36:00	1564	1577	1829	1880
2021/10/22	14:38:00	1577	1589	1820	1877
2021/10/22	14:40:00	1586	1595	1809	1871
2021/10/22	14:42:00	1565	1586	1818	1864
2021/10/22	14:44:00	1560	1579	1817	1860
2021/10/22	14:46:00	1579	1607	1814	1859
2021/10/22	14:48:00	1574	1606	1806	1859
2021/10/22	14:50:00	1560	1574	1811	1867
2021/10/22	14:52:00	1565	1589	1817	1874
2021/10/22	14:54:00	1589	1599	1802	1869
2021/10/22	14:56:00	1572	1594	1808	1861
2021/10/22	14:58:00	1576	1605	1803	1859
2021/10/22	15:00:00	1543	1579	1812	1871
2021/10/22	15:02:00	1543	1606	1812	1871
2021/10/22	15:04:00	1577	1612	1811	1862
2021/10/22	15:06:00	1553	1578	1808	1859
2021/10/22	15:08:00	1558	1578	1808	1861
2021/10/22	15:10:00	1576	1586	1806	1855
2021/10/22	15:12:00	1582	1589	1802	1855
2021/10/22	15:14:00	1583	1587	1802	1850
2021/10/22	15:16:00	1560	1585	1808	1866
2021/10/22	15:18:00	1558	1573	1809	1851
2021/10/22	15:20:00	1573	1588	1802	1858
2021/10/22	15:22:00	1584	1594	1806	1855
2021/10/22	15:24:00	1565	1584	1812	1865
2021/10/22	15:26:00	1563	1579	1799	1862
2021/10/22	15:28:00	1579	1587	1808	1859
2021/10/22	15:30:00	1585	1589	1803	1856
2021/10/22	15:32:00	1577	1589	1799	1858
2021/10/22	15:34:00	1569	1579	1800	1858
2021/10/22	15:36:00	1571	1577	1797	1852
2021/10/22	15:38:00	1562	1576	1800	1850
2021/10/22	15:40:00	1572	1594	1800	1850
2021/10/22	15:42:00	1578	1597	1791	1850

2021/10/22	15:44:00	1577	1580	1791	1848
2021/10/22	15:46:00	1572	1578	1794	1839
2021/10/22	15:48:00	1565	1574	1790	1851
2021/10/22	15:50:00	1569	1586	1792	1844
2021/10/22	15:52:00	1584	1589	1792	1845
2021/10/22	15:54:00	1584	1589	1787	1842
2021/10/22	15:56:00	1572	1586	1786	1836
2021/10/22	15:58:00	1562	1572	1794	1847
2021/10/22	16:00:00	1564	1589	1779	1841

Note:"-OVER" :Anamalous data was recored during part of the time when the flare was offline due to PG&E power outage. Power to the flare equipment was switched off for some time as a safety measure and to avoid potential damage to the equipment.

Attachment B  
Copy of GRDF RCA Forms for RCA Numbers 08C52 and 08C55





**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

October 21, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on October 20, 2021, ~ 5:40 PM. A breakdown report was submitted to Bay Area Air Quality Management District (BAAQMD) on October 20, 2021 at ~9:15 PM via the afterhours phone line by GRDF about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On October 21, 2021 at ~11:50 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~5:40 PM on 10/20/2021	Clear Time	10/21/2021~11:50 AM
Monitor/device type(s)	<input type="checkbox"/> CEM <input type="checkbox"/> GLM <input type="checkbox"/> Parametric <input type="checkbox"/> PRD <input type="checkbox"/> Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> NO <sub>x</sub> <input type="checkbox"/> SO <sub>2</sub> <input type="checkbox"/> CO <input type="checkbox"/> CO <sub>2</sub> <input type="checkbox"/> H <sub>2</sub> S <input type="checkbox"/> TRS <input type="checkbox"/> NH <sub>3</sub>		
	<input type="checkbox"/> O <sub>2</sub> <input type="checkbox"/> H <sub>2</sub> O <input type="checkbox"/> Opacity <input type="checkbox"/> Lead <input type="checkbox"/> Gauge Pressure <input type="checkbox"/> Flow		
	<input type="checkbox"/> Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> Temperature <input type="checkbox"/> Wind Speed		
	<input type="checkbox"/> Wind Direction <input type="checkbox"/> Steam <input checked="" type="checkbox"/> Other (describe) Power outage		
Unit(s) of Measurement	Unit(s) of Measurement		
	<input type="checkbox"/> ppm <input type="checkbox"/> ppb <input type="checkbox"/> min/hr > 20% <input type="checkbox"/> inches H <sub>2</sub> O <input type="checkbox"/> mmHg		
	<input type="checkbox"/> psig <input type="checkbox"/> pH <input type="checkbox"/> °Fahrenheit <input type="checkbox"/> Other (describe) Power outage		

#### Event Description:

A breakdown report was submitted on 10/20/2021 at~ 9:15 PM via afterhours phone line by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 10/21/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: You may have additional report requirements under Title V.

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Erin Phillips](#)  
**Subject:** [EXTERNAL] Re: GRDF A3294-RCA for PG&E power outage  
**Date:** Thursday, October 21, 2021 2:01:14 PM

---

Good afternoon, I am confirming receipt and letting you know the RCA number for your notification is 08C52

Thanks!

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Thursday, October 21, 2021 8:08 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Phadnis, Rajan <rphadnis@wm.com>; Perez, Enrique <pperez3@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>  
**Subject:** GRDF A3294-RCA for PG&E power outage

**CAUTION:** This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 10/20/2021, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,  
Rajan Phadnis  
EP Specialist  
Guadalupe Recycling and Disposal Facility

---

**Recycling is a good thing. Please recycle any printed emails.**



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

October 22, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Addendum to Reportable Compliance Activity (RCA 08C52) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Addendum Reportable Compliance Activity (RCA) to the previously submitted RCA Form (BAAQMD assigned RCA Number 08C52) for temporary flare shutdown event caused by unplanned utility power interruption on October 20, 2021, ~ 5:40 PM and on October 22, 2021 ~6:00 AM. A breakdown report was submitted to Bay Area Air Quality Management District (BAAQMD) on October 20, 2021 at ~9:15 PM via the afterhours phone line by GRDF about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

The power to the site was restored on October 21, 2021 at ~11:50 AM and on October 22, 2021 at ~1:30 PM and the GCCS was online. The shutdown events were unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: Addendum to RCA Form GRDF Facility A3294



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

ADDENDUM to RCA Number 08C52 (10/21/2021)-  
Submittal 10/22/2021

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~5:40 PM on 10/20/2021; and ~ 6:00 AM on 10/22/2021	Clear Time	10/21/2021~11:50 AM; and 10/22/2021~1:30 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)			
Parameter(s) exceeded or not functioning due to inoperation			
<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>			
<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow			
<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed			
<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage			
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe) Power outage			

#### Event Description:

A breakdown report was submitted on 10/20/2021 at~ 9:15 PM via afterhours phone line by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 10/22/2021.

### District Use Only

Received by

Date

Time

### General Instructions



- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Subject:** [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outages  
**Date:** Friday, October 22, 2021 2:21:31 PM

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ID# 08C55

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Friday, October 22, 2021 2:04 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Azevedo, Becky <Razevedo@wm.com>; Perez, Enrique <pperez3@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>  
**Subject:** GRDF A3294-RCA for PG&E power outages

**CAUTION:** This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the addendum RCA notification form for unplanned PG&E power outages on 10/20/21 and 10/22/2021, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,  
Rajan Phadnis  
EP Specialist  
Guadalupe Recycling and Disposal Facility

---

**Recycling is a good thing. Please recycle any printed emails.**



**Guadalupe Rubbish  
Disposal Co., Inc.**  
15999 Guadalupe Mines Road  
P.O. Box 20957  
San Jose, CA 95160

December 14, 2021(via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: Title V Reports

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294  
10-Day NOV Response to BAAQMD Notice of Violation A-59781 Dated December 8,  
2021

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 10-day response letter to Notice of Violation (“NOV”) Number A-59781 dated December 8, 2021, (see attachment) for alleged temporary flare shutdown events caused by unplanned utility power outages on October 20 and 22, 2021. A signed copy of the NOV is attached. The NOV alleges violation of *Regulation 8 Section 34-301.1* “...gas collection and emission control systems are operated continuously...” (“8-34-301.1”). GRDF believes that the site was not in violation of Regulation 8-34-301.1.

Although GRDF disagreed that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for temporary power outages on October 20 and 22, 2021 via afterhours phone line and RCA forms (RCA numbers 08C52 and 08C55 were assigned). GRDF submitted the 10 and 30-day written report letter to BAAQMD on October 29, 2021, under Title V Permit Condition Section I.F and the 30-day follow-up report on November 12, 2021.

The GRDF power outage events were caused by inclement weather conditions and were unforeseeable and unpreventable. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control. The unplanned power outage shutdowns noted in RCA 08C52 and 08C55 did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit GRDF economically nor result in a nuisance. As soon as the power was restored, the flare was inspected and restarted. The shutdown was temporary, only a few hours, and did not result in any emissions.

GRDF has placed the purchase order (on October 27, 2021) for a permanent generator (delivery will be delayed due to the COVID-19 emergency and related supply chain disruptions) and the suppliers anticipate the unit to be delivered by the fourth quarter of 2022. Currently, GRDF is working on BAAQMD permit application for the generator and Automatic Transfer Switch (ATS) electrical permit as required by the City of San Jose.

No corrective action was necessary nor applicable. GRDF believes that the exemption in 8-34-113 applies to its site operation as GRDF met the requirement that the “gas collection and emission control systems are not shut down for more than 240 hours in any calendar year.” Regulation 8, Rule 34, Section 113 (“8-34-113”) Limited Exemption, Inspection and Maintenance, states that “requirements of Sections 8-34-301...shall not apply to solid waste sites during inspection and maintenance of the landfill gas collection or emission control system...”. GRDF appropriately documents flare downtime event under 8-34-113, as each event requires inspection and maintenance during the downtime and prior to startup. These events are reported in GRDF’s startup and shutdown logs in its semi-annual reports. Startup could begin only after the restoration of normal power by the PG&E and GRDF’s safety and environmental inspection and maintenance process for flare startup and emission minimization.

GRDF additionally asserts that the downtime events did not: 1) interfere with attainment of the BAAQMD, federal, or state standards; 2) endanger health, safety, or welfare of any person; 3) endanger the environment; 4) increase emissions of toxic air contaminants; 5) cause or contribute to a violation of a SAAQS or NAAQS; 6) interfere with the BAAQMD’s compliance work; nor 7) result in emissions exceeding de minimis levels. The flare was temporarily shut down solely because of an unplanned power outage and not the result of an intentional or negligent failure to maintain and operate, or an equipment malfunction. For the above reasons, GRDF asserts that it did not violate 8-34-301.1 and respectfully requests the NOV be rescinded.

GRDF is committed to operating its landfill in compliance with applicable regulations. If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,

Guadalupe Recycling & Disposal Facility



Enrique Perez  
District Manager

cc: Erin Phillips, BAAQMD

Attachment: Copy of BAAQMD Notice of Violation A-59781

Attachment

Copy of BAAQMD Notice of Violation A-59781



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT**  
375 Beale Street, Suite 600, San Francisco, CA 94105  
(415) 749-5000

# NOTICE OF VIOLATION

No. **A59781**

ISSUED TO: Guadalupe Rubbish Disposal  P  G  N# A3294  
 ADDRESS: 15999 Guadalupe Mines Rd  
 CITY: San Jose STATE: CA ZIP: 95120  
 PHONE: (408 ) 268-1670  
 N# Mailing Address on F61

**OCCURRENCE**  
 NAME: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  Same As Above  
 CITY: \_\_\_\_\_ ZIP: \_\_\_\_\_  
 SOURCE: S# 9 NAME: Landfill with Gas Collection System  
 EMISSION PT: P# \_\_\_\_\_ NAME: \_\_\_\_\_  
 DATE: 10/20/21-10/22/21 TIME: 1740 HRS

<input type="checkbox"/> REG 2 RULE 1 SEC 301 No Authority to Construct	<input type="checkbox"/> REG 2 RULE 1 SEC 302 No Permit to Operate
<input type="checkbox"/> REG 1 SEC 301 H & S CODE - 41700 Public Nuisance	<input type="checkbox"/> REG 2 RULE ____ SEC 307 Failure to Meet Permit Condition
<input type="checkbox"/> REG 5 SEC 301 Prohibited Open Burning	<input type="checkbox"/> REG 6 RULE 1 SEC 301 Excessive Visible Emissions
<input checked="" type="checkbox"/> REG <u>8</u> RULE <u>34</u> SECTION <u>301.1</u> CODE <input type="text"/>	
<input type="checkbox"/> REG _____ RULE _____ SECTION _____ CODE <input type="text"/>	

Details: GCCS not operated continuously, PG&E power outages

RECIPIENT NAME: Enrique Perez  
 TITLE: District Manager

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT x Paul Enrique Perez

➔ **WITHIN 10 DAYS, RETURN A COPY OF THIS NOTICE WITH A WRITTEN DESCRIPTION OF THE IMMEDIATE CORRECTIVE ACTION YOU HAVE TAKEN TO PREVENT CONTINUED OR RECURRENT VIOLATION. THIS VIOLATION IS SUBJECT TO SUBSTANTIAL PENALTY. YOUR RESPONSE DOES NOT PRECLUDE FURTHER LEGAL ACTION.**

ISSUED BY: Erin Phillips INSP # 853  
 DATE: 12/8/21 TIME: 1520 HRS  MAILED

**PLEASE PRESS HARD**

# INSTRUCTIONS

## PERMIT VIOLATIONS - (REG 2, RULE 1, SECTION 301 AND/OR 302)

Within 30 days, a permit application must be submitted to the District's Permit Division. The permit application must reference the Violation Notice Number Shown on the front of this notice. If either the Violation Notice Number is not referenced or no permit application is received, then this matter will be referred to the District's Legal Department for legal action. Your response does not preclude further legal action.

If there are any questions regarding the submission of a Permit Application, call the Permit Services Division at (415) 749-4990.

## ALL OTHER VIOLATIONS

Within 10 days, return a copy of this notice with a written description of the corrective action you have taken to prevent continued or recurrent violation. Immediate corrective action must be taken to stop the violation. This violation is subject to substantial penalty. Your response does not preclude further legal action.

A variance should be sought if it is necessary to continue to operate in violation of District Regulations. For information on eligibility for, or filing of, a variance, call (415) 749-5073.



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

December 23, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on December 23, 2021, ~ 9:35 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on December 23, 2021 at ~2:10 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.



On December 23, 2021 at ~ 10:45 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 12.23.2021



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 9:35 AM on 12/23/2021	Clear Time	12/23/2021~10:45 AM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe)			

#### Event Description:

This breakdown report is being submitted on 12/23/2021 at ~14:10 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 12/23/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish  
Disposal Co., Inc.**  
15999 Guadalupe Mines Road  
P.O. Box 20957  
San Jose, CA 95160

December 29, 2021 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: Title V Reports

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294  
Section I.F Title V, 10 and 30-Day written report  
RCA Number 08E36

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 10 and 30-day Title V written report to the Bay Area Air Quality Management District (BAAQMD) as required under Title V Permit Condition Section I.F for GRDF.

A breakdown report was submitted on December 23, 2021, at around 2:10 PM because the landfill gas collection and control system (GCCS) was temporarily shut down due to the PG&E power outage. The flare was online on the December 23, 2021, around ~11:10 AM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief from BAAQMD for the December 23, 2021, PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on December 21, 2021 ~ 2:10 PM and was assigned RCA numbers 08E36 (see Attachment B for copy of RCA and submittal).

The unplanned power outage shutdown events noted in RCA form submitted on December 23, 2021, did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.

GRDF has placed the purchase order for a permanent generator (delayed due to the COVID-19 emergency and related supply chain disruptions) and the suppliers anticipate the unit to be delivered by the fourth quarter of 2022. Currently, GRDF is working on permit applications as required for the BAAQMD and the City of San Jose.

If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink that reads "Paul Enrique Perez". The signature is written in a cursive style with a large, looped 'P' and 'E'.

Enrique Perez  
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data

Attachment B- Copy of GRDF RCA Form (RCA Number 08E36)

Attachment A  
GRDF flare data

## Guadalupe Recycling and Disposal Facility-A3294

### Flare Data

		FLARE TEMP		LFG FLOW	
		F		SCFM	
		MIN	MAX	MIN	MAX
2021/12/23	08:30:00	1619	1627	1370	1419
2021/12/23	08:32:00	1619	1623	1377	1424
2021/12/23	08:34:00	1623	1627	1371	1424
2021/12/23	08:36:00	1627	1654	1374	1421
2021/12/23	08:38:00	1621	1648	1379	1418
2021/12/23	08:40:00	1619	1622	1373	1419
2021/12/23	08:42:00	1607	1621	1374	1418
2021/12/23	08:44:00	1606	1618	1379	1421
2021/12/23	08:46:00	1600	1617	1379	1418
2021/12/23	08:48:00	1599	1618	1371	1425
2021/12/23	08:50:00	1578	1617	1371	1407
2021/12/23	08:52:00	1578	1665	1361	1406
2021/12/23	08:54:00	1665	1694	1361	1403
2021/12/23	08:56:00	1674	1679	1359	1407
2021/12/23	08:58:00	1674	1681	1368	1415
2021/12/23	09:00:00	1664	1678	1365	1409
2021/12/23	09:02:00	1669	1715	1368	1409
2021/12/23	09:04:00	1678	1696	1365	1410
2021/12/23	09:06:00	1679	1700	1366	1403
2021/12/23	09:08:00	1676	1700	1362	1409
2021/12/23	09:10:00	1675	1694	1371	1404
2021/12/23	09:12:00	1683	1693	1371	1416
2021/12/23	09:14:00	1678	1705	1368	1410
2021/12/23	09:16:00	1672	1706	1361	1410
2021/12/23	09:18:00	1669	1701	1368	1404
2021/12/23	09:20:00	1679	1699	1366	1411
2021/12/23	09:22:00	1672	1698	1372	1408
2021/12/23	09:24:00	1667	1694	1374	1412
2021/12/23	09:26:00	1691	1711	1365	1419
2021/12/23	09:28:00	1686	1711	1365	1411
2021/12/23	09:30:00	1683	1702	1368	1416
2021/12/23	09:32:00	1681	1718	1375	1417
2021/12/23	09:34:00	1667	1683	1378	1422
2021/12/23	09:36:00				
2021/12/23	09:38:00				
2021/12/23	09:40:00	744	802	-3	-2
2021/12/23	09:42:00	599	744	-2	-1
2021/12/23	09:44:00				
2021/12/23	09:46:00				
2021/12/23	09:48:00	342	390	-183	-182
2021/12/23	09:50:00	329	460	-182	-182
2021/12/23	09:52:00	460	1541	-183	-182
2021/12/23	09:54:00	984	1527	-183	-181
2021/12/23	09:56:00	709	984	-182	-181
2021/12/23	09:58:00	559	709	-182	-182
2021/12/23	10:00:00				
2021/12/23	10:02:00				
2021/12/23	10:04:00				
2021/12/23	10:06:00				
2021/12/23	10:08:00				

2021/12/23	10:10:00				
2021/12/23	10:12:00				
2021/12/23	10:14:00				
2021/12/23	10:16:00				
2021/12/23	10:18:00				
2021/12/23	10:20:00				
2021/12/23	10:22:00				
2021/12/23	10:24:00				
2021/12/23	10:26:00				
2021/12/23	10:28:00				
2021/12/23	10:30:00				
2021/12/23	10:32:00				
2021/12/23	10:34:00				
2021/12/23	10:36:00				
2021/12/23	10:38:00				
2021/12/23	10:40:00				
2021/12/23	10:42:00				
2021/12/23	10:44:00				
2021/12/23	10:46:00				
2021/12/23	10:48:00	71	72	-4	-2
2021/12/23	10:50:00	70	71	-183	-182
2021/12/23	10:52:00	70	71	-183	-181
2021/12/23	10:54:00	70	71	-182	-182
2021/12/23	10:56:00				
2021/12/23	10:58:00	75	76	-3	-2
2021/12/23	11:00:00	76	77	-3	-1
2021/12/23	11:02:00	77	78	-3	-1
2021/12/23	11:04:00	78	79	-2	-1
2021/12/23	11:06:00	79	79	-2	-1
2021/12/23	11:08:00	79	84	-2	1489
2021/12/23	11:10:00	84	1265	1489	1920
2021/12/23	11:12:00	1265	1755	1666	1935
2021/12/23	11:14:00	1528	1574	1623	1688
2021/12/23	11:16:00	1538	1564	1609	1666
2021/12/23	11:18:00	1528	1571	1579	1641
2021/12/23	11:20:00	1528	1607	1573	1630
2021/12/23	11:22:00	1552	1607	1587	1635
2021/12/23	11:24:00	1539	1552	1582	1624
2021/12/23	11:26:00	1551	1569	1573	1616
2021/12/23	11:28:00	1547	1570	1581	1623
2021/12/23	11:30:00	1562	1664	1585	1624
2021/12/23	11:32:00	1568	1604	1578	1617
2021/12/23	11:34:00	1556	1568	1567	1614
2021/12/23	11:36:00	1555	1567	1564	1606
2021/12/23	11:38:00	1555	1565	1553	1605
2021/12/23	11:40:00	1546	1556	1557	1597
2021/12/23	11:42:00	1553	1564	1556	1591
2021/12/23	11:44:00	1562	1573	1560	1596
2021/12/23	11:46:00	1560	1569	1562	1606
2021/12/23	11:48:00	1547	1566	1563	1606
2021/12/23	11:50:00	1555	1569	1558	1600
2021/12/23	11:52:00	1558	1587	1555	1597
2021/12/23	11:54:00	1553	1584	1550	1599
2021/12/23	11:56:00	1554	1581	1556	1591
2021/12/23	11:58:00	1547	1578	1556	1599
2021/12/23	12:00:00	1545	1567	1552	1596



2021/12/23	12:02:00	1567	1586	1557	1594
2021/12/23	12:04:00	1556	1586	1546	1587
2021/12/23	12:06:00	1559	1582	1555	1598
2021/12/23	12:08:00	1553	1564	1546	1590
2021/12/23	12:10:00	1553	1585	1547	1591
2021/12/23	12:12:00	1556	1588	1550	1585
2021/12/23	12:14:00	1558	1580	1541	1582
2021/12/23	12:16:00	1555	1578	1547	1588
2021/12/23	12:18:00	1568	1606	1543	1585
2021/12/23	12:20:00	1561	1596	1544	1582

Attachment B  
Copy of GRDF RCA Form for RCA Number 08E36

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Subject:** [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 12.23.2021  
**Date:** Thursday, December 23, 2021 2:15:41 PM

---

ID# 08E36

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Thursday, December 23, 2021 2:09 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Phadnis, Rajan <rphadnis@wm.com>; Perez, Enrique <pperez3@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Erin Phillips <ephillips@baaqmd.gov>  
**Subject:** GRDF A3294-RCA for PG&E power outage 12.23.2021

**CAUTION:** This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 12.23.2021, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,  
Rajan Phadnis  
EP Specialist  
For Guadalupe Recycling and Disposal Facility



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

December 23, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on December 23, 2021, ~ 9:35 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on December 23, 2021 at ~2:10 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.

On December 23, 2021 at ~ 10:45 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 12.23.2021



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 9:35 AM on 12/23/2021	Clear Time	12/23/2021~10:45 AM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe)			

#### Event Description:

This breakdown report is being submitted on 12/23/2021 at ~14:10 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 12/23/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish  
Disposal Co., Inc.**  
15999 Guadalupe Mines Road  
P.O. Box 20957  
San Jose, CA 95160

January 5, 2022 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: RCA 30-Day Report

Re: Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294  
Request for Breakdown Relief for RCA Numbers 08E36  
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E power outage on December 23, 2021.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~2:10 PM on December 23, 2021 because the landfill gas collection and control system (GCCS) was temporarily shut down due a PG&E power outage caused by a fallen tree branch. The flare was back online at ~11:10 AM (see Attachment A for flare data). Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, GRDF submitted the request for Breakdown Relief to the BAAQMD for the December 23, 2021 PG&E power outage and was assigned RCA numbers 08E36 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown event noted in RCA form December 23, 2021, did not result in emissions and do not qualify as non-compliance. GRDF believes that it complied with the Title V permit conditions and safety protocols. GRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. GRDF’s downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF’s control.

GRDF is committed to operating its landfill in compliance with applicable regulations and will ensure that compliance is achieved. However, GRDF disagrees with the BAAQMD that temporary shutdowns resulting from unplanned power outages are violations of any BAAQMD regulation.



GRDF has placed the purchase order for a permanent generator (delayed due to the COVID-19 emergency and related supply chain disruptions) and the suppliers anticipate the unit to be delivered by the fourth quarter of 2022. Currently, GRDF is working on BAAQMD permit application for the generator and Automatic Transfer Switch (ATS) electrical permit as required by the City of San Jose.

If you have any questions or need any additional information, please do not hesitate to contact me at (408) 779-2206.

Sincerely,

Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Paul Enrique Perez".

Enrique Perez  
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- GRDF flare data

Attachment B- Copy of GRDF RCA Form -Number 08E36

Attachment A  
GRDF flare data

## Guadalupe Recycling and Disposal Facility-A3294

### Flare Data

		FLARE TEMP		LFG FLOW	
		F		SCFM	
		MIN	MAX	MIN	MAX
2021/12/23	08:30:00	1619	1627	1370	1419
2021/12/23	08:32:00	1619	1623	1377	1424
2021/12/23	08:34:00	1623	1627	1371	1424
2021/12/23	08:36:00	1627	1654	1374	1421
2021/12/23	08:38:00	1621	1648	1379	1418
2021/12/23	08:40:00	1619	1622	1373	1419
2021/12/23	08:42:00	1607	1621	1374	1418
2021/12/23	08:44:00	1606	1618	1379	1421
2021/12/23	08:46:00	1600	1617	1379	1418
2021/12/23	08:48:00	1599	1618	1371	1425
2021/12/23	08:50:00	1578	1617	1371	1407
2021/12/23	08:52:00	1578	1665	1361	1406
2021/12/23	08:54:00	1665	1694	1361	1403
2021/12/23	08:56:00	1674	1679	1359	1407
2021/12/23	08:58:00	1674	1681	1368	1415
2021/12/23	09:00:00	1664	1678	1365	1409
2021/12/23	09:02:00	1669	1715	1368	1409
2021/12/23	09:04:00	1678	1696	1365	1410
2021/12/23	09:06:00	1679	1700	1366	1403
2021/12/23	09:08:00	1676	1700	1362	1409
2021/12/23	09:10:00	1675	1694	1371	1404
2021/12/23	09:12:00	1683	1693	1371	1416
2021/12/23	09:14:00	1678	1705	1368	1410
2021/12/23	09:16:00	1672	1706	1361	1410
2021/12/23	09:18:00	1669	1701	1368	1404
2021/12/23	09:20:00	1679	1699	1366	1411
2021/12/23	09:22:00	1672	1698	1372	1408
2021/12/23	09:24:00	1667	1694	1374	1412
2021/12/23	09:26:00	1691	1711	1365	1419
2021/12/23	09:28:00	1686	1711	1365	1411
2021/12/23	09:30:00	1683	1702	1368	1416
2021/12/23	09:32:00	1681	1718	1375	1417
2021/12/23	09:34:00	1667	1683	1378	1422
2021/12/23	09:36:00				
2021/12/23	09:38:00				
2021/12/23	09:40:00	744	802	-3	-2
2021/12/23	09:42:00	599	744	-2	-1
2021/12/23	09:44:00				
2021/12/23	09:46:00				
2021/12/23	09:48:00	342	390	-183	-182
2021/12/23	09:50:00	329	460	-182	-182
2021/12/23	09:52:00	460	1541	-183	-182
2021/12/23	09:54:00	984	1527	-183	-181
2021/12/23	09:56:00	709	984	-182	-181
2021/12/23	09:58:00	559	709	-182	-182
2021/12/23	10:00:00				
2021/12/23	10:02:00				
2021/12/23	10:04:00				
2021/12/23	10:06:00				
2021/12/23	10:08:00				

2021/12/23	10:10:00				
2021/12/23	10:12:00				
2021/12/23	10:14:00				
2021/12/23	10:16:00				
2021/12/23	10:18:00				
2021/12/23	10:20:00				
2021/12/23	10:22:00				
2021/12/23	10:24:00				
2021/12/23	10:26:00				
2021/12/23	10:28:00				
2021/12/23	10:30:00				
2021/12/23	10:32:00				
2021/12/23	10:34:00				
2021/12/23	10:36:00				
2021/12/23	10:38:00				
2021/12/23	10:40:00				
2021/12/23	10:42:00				
2021/12/23	10:44:00				
2021/12/23	10:46:00				
2021/12/23	10:48:00	71	72	-4	-2
2021/12/23	10:50:00	70	71	-183	-182
2021/12/23	10:52:00	70	71	-183	-181
2021/12/23	10:54:00	70	71	-182	-182
2021/12/23	10:56:00				
2021/12/23	10:58:00	75	76	-3	-2
2021/12/23	11:00:00	76	77	-3	-1
2021/12/23	11:02:00	77	78	-3	-1
2021/12/23	11:04:00	78	79	-2	-1
2021/12/23	11:06:00	79	79	-2	-1
2021/12/23	11:08:00	79	84	-2	1489
2021/12/23	11:10:00	84	1265	1489	1920
2021/12/23	11:12:00	1265	1755	1666	1935
2021/12/23	11:14:00	1528	1574	1623	1688
2021/12/23	11:16:00	1538	1564	1609	1666
2021/12/23	11:18:00	1528	1571	1579	1641
2021/12/23	11:20:00	1528	1607	1573	1630
2021/12/23	11:22:00	1552	1607	1587	1635
2021/12/23	11:24:00	1539	1552	1582	1624
2021/12/23	11:26:00	1551	1569	1573	1616
2021/12/23	11:28:00	1547	1570	1581	1623
2021/12/23	11:30:00	1562	1664	1585	1624
2021/12/23	11:32:00	1568	1604	1578	1617
2021/12/23	11:34:00	1556	1568	1567	1614
2021/12/23	11:36:00	1555	1567	1564	1606
2021/12/23	11:38:00	1555	1565	1553	1605
2021/12/23	11:40:00	1546	1556	1557	1597
2021/12/23	11:42:00	1553	1564	1556	1591
2021/12/23	11:44:00	1562	1573	1560	1596
2021/12/23	11:46:00	1560	1569	1562	1606
2021/12/23	11:48:00	1547	1566	1563	1606
2021/12/23	11:50:00	1555	1569	1558	1600
2021/12/23	11:52:00	1558	1587	1555	1597
2021/12/23	11:54:00	1553	1584	1550	1599
2021/12/23	11:56:00	1554	1581	1556	1591
2021/12/23	11:58:00	1547	1578	1556	1599
2021/12/23	12:00:00	1545	1567	1552	1596

2021/12/23	12:02:00	1567	1586	1557	1594
2021/12/23	12:04:00	1556	1586	1546	1587
2021/12/23	12:06:00	1559	1582	1555	1598
2021/12/23	12:08:00	1553	1564	1546	1590
2021/12/23	12:10:00	1553	1585	1547	1591
2021/12/23	12:12:00	1556	1588	1550	1585
2021/12/23	12:14:00	1558	1580	1541	1582
2021/12/23	12:16:00	1555	1578	1547	1588
2021/12/23	12:18:00	1568	1606	1543	1585
2021/12/23	12:20:00	1561	1596	1544	1582

Attachment B  
Copy of GRDF RCA Form-Numbers 08E36

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Subject:** [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 12.23.2021  
**Date:** Thursday, December 23, 2021 2:15:41 PM

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ID# 08E36

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Thursday, December 23, 2021 2:09 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Phadnis, Rajan <rphadnis@wm.com>; Perez, Enrique <pperez3@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Erin Phillips <ephillips@baaqmd.gov>  
**Subject:** GRDF A3294-RCA for PG&E power outage 12.23.2021

**CAUTION:** This email originated from outside of the BAAQMD network. Do not click links or open attachments unless you recognize the sender and know the content is safe.

I am attaching the RCA notification form for unplanned PG&E power outage on 12.23.2021, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,  
Rajan Phadnis  
EP Specialist  
For Guadalupe Recycling and Disposal Facility



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
A WASTE MANAGEMENT COMPANY

910 Coyote Creek Golf Drive  
P.O. Box 1870  
Morgan Hill, CA 95037  
(408) 779-2206  
(408) 779-5165 Fax

December 23, 2021 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

Compliance & Enforcement Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

**Re: Reportable Compliance Activity (RCA) Notification  
Guadalupe Recycling & Disposal Facility, San Jose, CA, Facility Number A3294**

Guadalupe Rubbish Disposal Co., Inc d/b/a Guadalupe Recycling & Disposal Facility (“GRDF”) is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on December 23, 2021, ~ 9:35 AM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on December 23, 2021 at ~2:10 PM about the PG&E's power outage.

Although GRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power outage, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power outage. BAAQMD's RCA notification form, as modified, is enclosed. The frequency and duration of weather or utility-related electrical interruptions are outside of GRDF's control and GRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as GRDF complied with administrative requirements despite its objections to the re-interpretation of Rule 8-34 and:

1. The breakdown is not the result of intent, negligence or disregard of air pollution control regulations;
2. The breakdown is not the result of improper maintenance;
3. The breakdown does not create a public nuisance;
4. The breakdown was not caused by an excessively recurrent breakdown of the same equipment; and
5. The breakdown did not occur, and any emissions did not interfere with attainment or maintenance of any National or California air quality standard.



On December 23, 2021 at ~ 10:45 AM the GCCS was back online. The shutdown event was unforeseeable & unpreventable at GRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,  
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form GRDF Facility A3294 Dated 12.23.2021



BAY AREA  
AIR QUALITY  
MANAGEMENT  
DISTRICT

## COMPLIANCE & ENFORCEMENT DIVISION

### Notification Form

Reportable  
Compliance  
Activity (RCA)

[See back of form for instructions](#) →

1.  **BREAKDOWN RELIEF: *District Use Only*** BREAKDOWN REFERENCE #:

2. NA  **MONITOR EXCESS EMISSION or EXCURSION: *District Use Only*** REFERENCE #:

3. NA  **MONITOR IS INOPERATIVE: *District Use Only*** REFERENCE #:

4. NA  **PRESSURE RELIEF DEVICE (PRD): *District Use Only*** PRD REFERENCE #:

### SITE INFORMATION AND DESCRIPTION INFORMATION (REQUIRED)

Company	Guadalupe Rubbish Disposal Co., Inc	Site #	A3294
Address	15999 Guadalupe Mines Road, San Jose 95120	Source #	S-9
Reported by	R Phadnis	Phone #	510.875.9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	~ 9:35 AM on 12/23/2021	Clear Time	12/23/2021~10:45 AM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power outage		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input type="checkbox"/> ▶ Other (describe)			

#### Event Description:

This breakdown report is being submitted on 12/23/2021 at ~14:10 PM by Guadalupe Recycling & Disposal Facility (GRDF) because the GCCS was temporarily shut down due to the PG&E power outage. During the PG&E power outage, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 12/23/2021.

### District Use Only

Received by

Date

Time

### General Instructions

- ✓ Check the Box numbers 1- 4 that apply to the RCA you are trying to report or request and read the detailed instructions.
- ✓ You will receive an ID # for each RCA you submit. In the case of a request for Breakdown Relief where multiple monitors are affected, you do not need to submit multiple forms, as long as all necessary information is given on one form. RCA reported during other than core business hours will be assigned an ID # the following working day. If you do not receive an ID #, it is your responsibility to contact the BAAQMD to get one.
- ✓ You may submit only one request for breakdown relief per form. However, you may submit multiple indicated excess, inoperative monitors and PRD reports on one form, provided that the start and end times given for the events in the required information section is inclusive of all events. Information on parameters exceeded, units of measurement and allowable limits can be provided in the event description box or when contacted by District staff with questions.
- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to [rca@baaqmd.gov](mailto:rca@baaqmd.gov)
- ✓ **A 30-day written follow-up report is required for Breakdown Requests and PRD Releases.** Reports for these types of RCA must contain a quantification of emissions, the calculations used to derive the emissions, and their duration. Reference [Breakdown Admissions Advisory dated 12/3/04](#). Send 30-day report letters to: BAAQMD Compliance and Enforcement Division, MAILSTOP: RCA 30-DAY REPORT, 375 Beale Street, Ste. 600 San Francisco, CA 94105. NOTE: **You may have additional report requirements under Title V.**

## Detailed Instructions

### **Box 1: To Request Breakdown Relief (Regulations 1-112, 1-113, 1-208, 1-431, 1-432)**

If you have an equipment malfunction (e.g.; breakdown) that leads to the release of air pollutants above the regulatory or your permitted levels, you may request relief from BAAQMD enforcement action.

- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Requests for breakdown relief may not be withdrawn and must be called in or faxed to the BAAQMD immediately upon discovery of an equipment malfunction.
- Receipt of an RCA ID# for a breakdown does not mean relief has been granted. An Inspector will visit your facility to determine compliance.

### **Box 2: Monitor Indicates Excess Emission or Excursion (Regulation 1-522.7, 1-523.3, 1-542)**

When a BAAQMD-required monitor indicates an excess or excursion, you must report it to the BAAQMD.

- Check Box #2.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- Any excess emission indicated by a CEM or excursion of a parametric monitor, shall be reported to the BAAQMD within 96 hours.
- Area concentration excesses over the limits prescribed in District regulations shall be reported to the BAAQMD within the next normal working day following the examination of data.

### **Box 3: Monitor Is Inoperative (Regulations 1-522, 1-523, 1-530)**

When a BAAQMD-required monitor is inoperative for greater than 24 hours, you must report it to the BAAQMD.

- Check Box #3 only if inoperative for greater than 24 hours.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

### **Box 4: Pressure Relief Device (PRD) Is Released (Regulation 8-28-401)**

When a PRD at your refinery/chemical plant vents to the atmosphere, you must report it to the BAAQMD.

- Check Box #4 only if a pressure relief device is released.
- Separate RCA ID #'s can be applied to monitor(s) affected by a PRD by also checking Box #2 if other monitors record an excess or excursion.
- Fill out all the information in the "Site Information and Description Information (Required)" area of the form.
- All PRD release reports must be reported by the following BAAQMD working day.



**Guadalupe Rubbish Disposal Company, Inc.**  
15999 Guadalupe Mines Road, San Jose, CA 95120

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October 28, 2021

Mr. Raymond Salalila  
Air Quality Specialist  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105

Re: Guadalupe Recycling and Disposal Facility  
Facility Number A3294  
Request for Limited Exemption (for construction activities) from Regulation 8, Rule 34  
(Solid Waste Disposal Sites), Section 303 (Landfill Surface Requirements)

Dear Mr. Salalila:

This letter requests a limited exemption from the requirements of Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) during construction, repairs and installation of piping and laterals to be connected to the existing gas collection and control system (GCCS) from November 8, 2021 through December 31, 2021, at the Guadalupe Rubbish Disposal Company, Inc. (GRDC). This notification is submitted pursuant to the BAAQMD Regulation 8, Rule 34, Section 118, "Limited Exemptions for Construction Activities." The work consists of repairs and installation of piping and laterals that will connect to the existing gas collection and control system (GCCS) to maintain compliance with the BAAQMD Regulation 8, Rule 34, and is to be performed during the period of November 8, 2021 through December 31, 2021.

GRDC will conduct repairs and installation of piping and laterals that will connect to the existing GCCS. This letter also transmits the BAAQMD-required construction plan (work plan) for the proposed work. The work plan contains information required pursuant to Regulation 8, Rule 34, Section 118.1 and AB-32 §95470(a)(1)(I) and (J) and includes:

- Description of actions being taken;
- Description of landfill areas affected;
- Description of LFG components affected;
- Map showing the above areas and components;
- Reason requiring the action;
- Construction schedule;
- Description of air quality mitigation measures planned; and
- Recordkeeping requirements.

No significant interruption of the current site LFG extraction and control operations is anticipated due to the work. The construction will begin on or around November 8, 2021. We anticipate construction activities to conclude by December 31, 2021.

Unless notified otherwise, GRDC will proceed in accordance with the attached work plan. We deem submittal of this plan as approval by the BAAQMD to take necessary action to ensure compliance with regulations, which may include taking additional LFG extraction wells offline for an extended period of time pursuant to Regulation 8, Rule 34, Section 118.

In case of any questions, please do not hesitate to contact me at (408) 960-0770.

Sincerely,

Guadalupe Rubbish Disposal Company, Inc.

A handwritten signature in cursive script, reading "Michael L. Winter", enclosed in a thin black rectangular border.

Michael L. Winter  
District Engineer

Cc: Enrique Perez, GRDC  
Bill Louis, WM

# **BAAQMD REGULATION 8, RULE 34 CONSTRUCTION PLAN**

## **GUADALUPE RUBBISH DISPOSAL COMPANY, INC.**

### **CONSTRUCTION FOR INSTALLATION AND REPAIR OF LFG PIPING**

**November 8, 2021 through December 31, 2021**

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#### **INTRODUCTION**

This Construction Work Plan is submitted pursuant to Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 118: Limited Exemptions for Construction Activities. To obtain an exemption from BAAQMD Regulation 8, Rule 34, Section 303: Landfill Surface Requirements, the operator shall submit a construction plan in writing to the Air Pollution Control Officer (APCO) prior to beginning any construction activities. In addition, this plan also includes information required by the AB-32 Sections §95470(a)(1)(I) and (J).

BAAQMD Section 303 requires maintaining the concentration of organic compounds and methane below 500 parts per million by volume (ppmv) at all points on the landfill surface. Section 118 provides an exemption from the surface emission standard for “...*areas of the landfill surface where the landfill cover material has been removed and refuse has been exposed for the express purpose of installing, expanding, replacing, or repairing components of the landfill gas, leachate, or gas condensate collection and removal systems.*”

Pursuant to Regulation 8, Rule 34, Section 118 and AB-32 Sections §95470(a)(1)(I) and (J), this work plan includes:

- Description of actions being taken;
- Description of landfill areas affected;
- Description of landfill gas (LFG) components affected;
- Map showing the affected areas and components;
- Reason requiring the action;
- Construction schedule;
- Description of air quality mitigation measures planned; and
- Recordkeeping requirements.

#### **ACTIONS BEING TAKEN**

The work consists of excavation, repair of existing pipes and installation of new piping and laterals that will connect to existing LFG extraction wells and to the GCCS.

#### **AFFECTED LANDFILL AREAS**

The construction activities will occur in the area shown on the attached figure.

## **AFFECTED LFG COMPONENTS**

GRDC will conduct landfill GCCS construction activities in compliance with to maintain compliance with the Rule 8-34-116 and 8-34-117.

Please see below for list of proposed GCCS repairs and installations:

- Installation, repair and tie-ins of piping at wells 151, 186 and 188
- Any additional piping that may be required at existing pipes and wells; and
- Cut and cap below grade few surface penetrations that are not active

Pursuant to Rule 8-34-117, GRDC will take the GCCS wells offline, as necessary. GRDC will ensure that no more than 5 gas wells are shut down at any time, and that no gas collection well may be down for more than 24 hours.

It is anticipated that the construction will have no significant impact on the routine operation of the existing GCCS. Installation of new LFG extraction laterals is independent of the ongoing operations of the GCCS. When connecting LFG extraction wells, isolation valves installed within the existing GCCS piping network will be used to minimize the number of existing LFG extraction wells offline at any given time while the newly installed LFG laterals are connected to the GCCS.

## **REASONS FOR ACTIONS**

The proposed construction work is intended to:

- Increase LFG collection efficiency by repairing and installation of LFG laterals and piping on existing wells;
- Increase LFG collection efficiency to further reduce the potential surface emissions;

## **CONSTRUCTION SCHEDULE**

The anticipated construction period will be between November 8, 2021 through December 31, 2021. The anticipated schedule for the construction activities is summarized in the table below:

**Table 1 - Preliminary Construction Schedule**

<b>Task</b>	<b>Project Week and Duration</b>
Mobilize crew, equipment, and materials to site	1 week
Repair and installation of piping and laterals	Up to 7 weeks
Clean-up and demobilize crew and materials	1 week

## **AIR QUALITY MITIGATION MEASURES**

Emission of raw LFG will be minimized during construction. We anticipate minimal interruption of the overall site LFG extraction and control operations during the work. Installation and repair

of piping is independent of ongoing operations of the existing GCCS. Air quality mitigation will be provided during the installation of wells and connection of wells to existing GCCS piping network. These mitigation measures are presented below and are designed to meet both the requirements of 8-34 Section 118 and §95470(a)(1)(I).

Due to the minimal amount of excavation planned for this work, air quality impacts are also anticipated to be minimal. Air quality mitigation will be provided during the following work tasks:

- Excavation for installation piping;
- Excavation and backfill of pipe trenches; and
- Connection of new piping and laterals to existing piping and GCCS

During construction and excavation through waste and soil cover, air emission will be controlled by implementing the following measures:

- Minimizing the installation time for each component;
- Minimizing the quantity of trench excavations at any one time;
- Relocating excavated refuse to the designated waste disposal area immediately and covering the relocated waste daily by no later than the end of each day; and
- Well borings will not be left open overnight or for periods greater than 8 hours

During connection of wells to the existing LFG piping, and installation of laterals and piping, air emissions will be controlled by implementing the following measures:

- Capping or blind flanging of all pipes and collector openings, which will remain sealed until time of connection to a vacuum source;
- Using isolation valves;
- Minimizing installation time for making each connection; and
- Minimizing the amount of open pipe during each installation, by using flange joints and flexible couplings.

## **RECORDKEEPING**

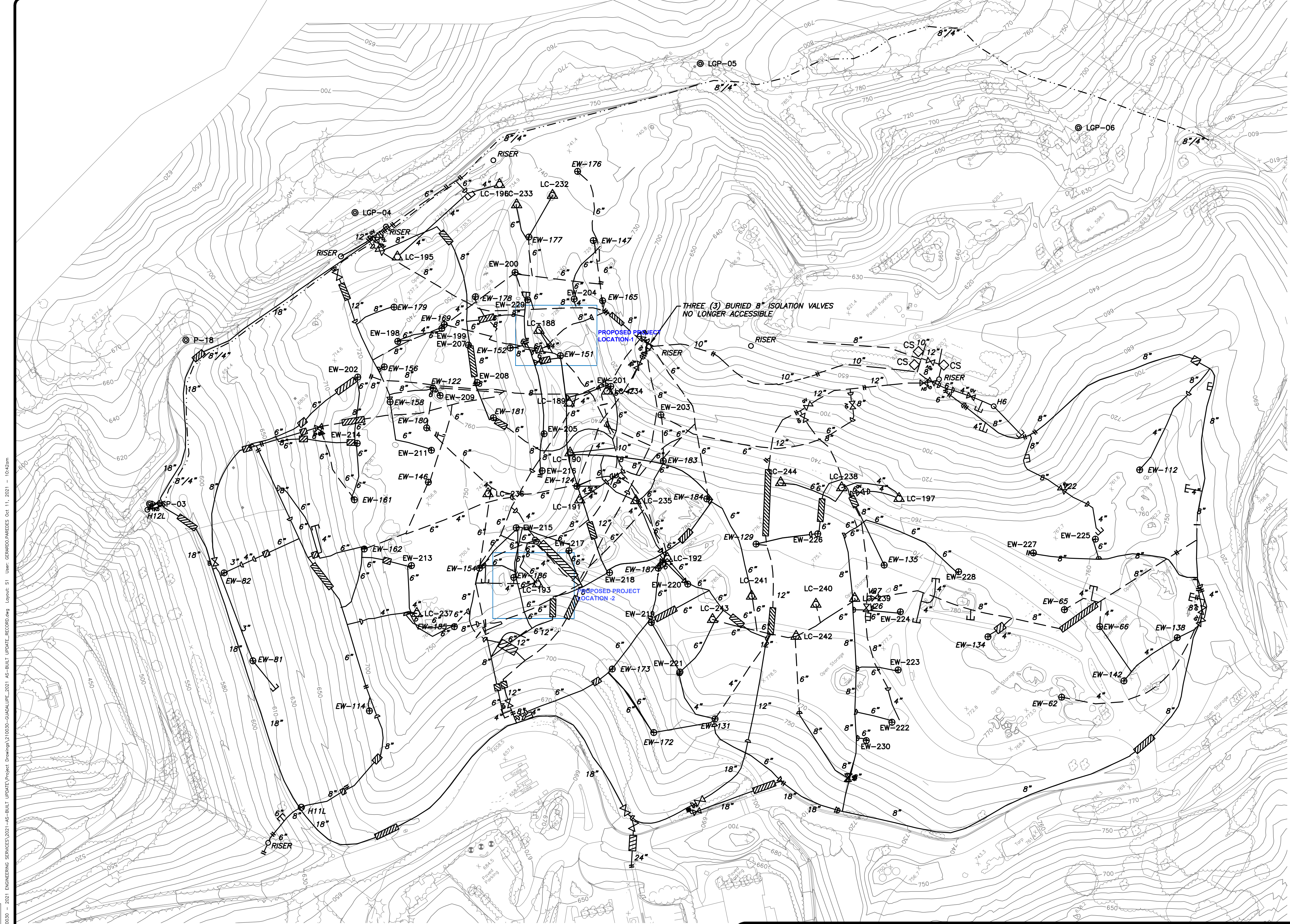
The following records will be retained during the project:

- Construction start and end dates, projected and actual installation dates, and projected shut down times for individual gas collection system components.
- GCCS downtime and individual well shutdown times will be documented in accordance with the GRDC's Startup, Shutdown, and Malfunction (SSM) Plan.

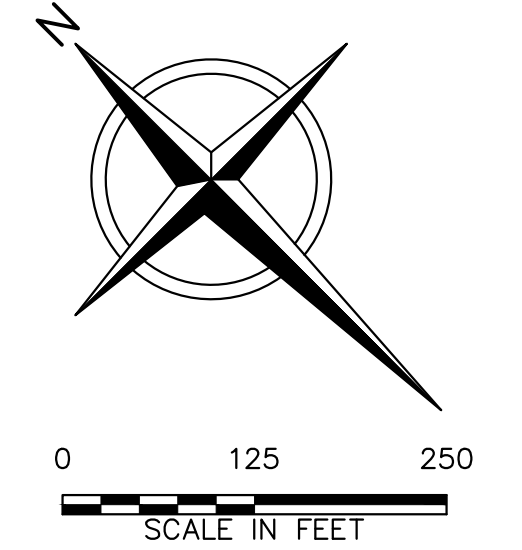


- Mitigation measures taken to minimize methane emissions and other potential air quality impacts will be documented.

Attachments: Figure 1 - GCCS Map



- LEGEND**
- — — — — PROPERTY BOUNDARY
  - 1400 — EXISTING 10' CONTOUR
  - 12" — EXISTING ABOVEGROUND PIPING
  - 12" — EXISTING BELOWGROUND PIPING
  - 8"/4" — INSTALLED LEACHATE PIPING
  - — — — — EXISTING HORIZONTAL COLLECTOR
  - ⊕ EW-3 EXISTING LFG EXTRACTION WELL
  - ⊕ EXISTING REMOTE WELLHEAD
  - ⊙ LGP-04 ⊙ P-18 EXISTING PROBE
  - ⊙ H6 ⊕ EW-H15 EXISTING HORIZONTAL COLLECTOR WELLHEAD
  - △ LC-190 EXISTING LOCAL CONTROL WELL
  - ⊕ EXISTING LOCAL VALVE
  - ⊕ EXISTING BLIND FLANGE
  - ⊕ EXISTING FLANGE CONNECTION
  - ⊕ EXISTING REDUCER FITTING
  - ▨ EXISTING ROAD CROSSING
  - ◇ CS- EXISTING CONDENSATE SUMP
  - RISER EXISTING RISER
  - ⊔ EXISTING CAP ON EXISTING PIPE



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: MARCH 26, 2021. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
  2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
  3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
  4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
  5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
  8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021 AND AUGUST 21, 2021.

**RECORD DRAWINGS**

File: X:\PROJECTS\GUADALUPE\210030 - 2021 ENGINEERING SERVICES\2021-AS-BUILT UPDATE\Project Drawings\210030-GUADALUPE\_2021-AS-BUILT UPDATE\_RECORD.dwg Layout: S1 User: GEARADO-PAREDES Oct 11, 2021 - 10:42am



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	10/11/21					



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
**2021 GCCS IMPROVEMENTS**  
**AS-BUILT SITE PLAN**

SHEET NO.  
**1**  
 PROJECT NO.  
 210030



**Guadalupe Rubbish  
Disposal Co., Inc.**  
15999 Guadalupe Mines Road  
P.O. Box 20957  
San Jose, CA 95160

November 23, 2021

Ms. Tamiko Endow  
Permit Service Division  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, CA 94105

Re: Facility No. A3294– Guadalupe Recycling and Disposal Facility  
Notification of the Addition of Landfill Gas Collection Wells 200, 217, and 218 to Higher  
Operating Value List

Dear Ms. Endow:

The Guadalupe Recycling and Disposal Facility (GRDF), owned by Guadalupe Rubbish Disposal Co., Inc., (GRDC) is subject to the Federal New Source Performance Standards/Emission Guidelines (NSPS/EG) for municipal solid waste (MSW) landfills (40 Code of Federal Regulations [CFR], Part 60) and the Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34. In accordance with Title V Permit Condition Number 6188, Part 3b(vi), the GRDF is submitting this letter as notification to the BAAQMD for the addition of landfill gas (LFG) Wells 200, 217, and 218 to the higher operating value (HOV) list of wells at the GRDF.

The GRDF has installed and operates a landfill gas collection and control system (GCCS) at the facility in accordance with the NSPS/EG and BAAQMD Regulation 8, Rule 34. These regulations require that the LFG wells that make up the GCCS be operated with wellhead temperatures below 131 degrees Fahrenheit (°F) (BAAQMD 8-34-305).

In October 2021, the GRDF investigated the LFG temperatures at Wells 200, 217, and 218. The intent of the investigation was to determine if the elevated temperature readings were due to excess air infiltration, damage to the well, or if the well simply operates at a higher normal temperature.

The review of monitoring data for Wells 200, 217, and 218 indicates that the well had elevated operating temperatures, and oxygen data shows negligible oxygen has been detected at the well. Upon first discovering the elevated temperatures, GRDF personnel monitored the wells for carbon monoxide (CO), which is an early indicator of subsurface fire. Typically, CO concentrations of greater than 1,000 parts per million by volume (ppmv) will indicate a subsurface fire, with CO concentrations greater than 500 ppmv being of concern. The initial two readings at Well 200 indicated CO readings of 0 and 5 ppmv. Subsequent monitoring at Well 200 indicated that CO concentrations remained at 5 ppmv. The initial two readings at Well 217 indicated CO readings of 10 and 0 ppmv. Subsequent monitoring at Well 217 indicated that CO concentrations at 5 and 0 ppmv. The initial two readings at Well 218 indicated CO readings of 0 and 5 ppmv. Subsequent

monitoring at Well 218 indicated that CO concentrations remained at 0 ppmv. The wellhead temperatures for each CO monitoring event was less than 140°F. Methane concentrations at Well 200, 217, and 218 do not appear to be affected by operation at the higher temperatures. See attached table for historical monitoring data and CO monitoring results. Wells 200, 217, and 218 did not have well exceedances within the last 120 days.

GRDF considers Wells 200, 217, and 218 added to the HOV list for a temperature of 145°F as of November 23, 2021. Should the temperature measured at Wells 200, 217, and 218 during routine monitoring exceed 145°F, GRDF will consider it an exceedance and will track the deviation in accordance with the NSPS/EG and BAAQMD requirements.

If you have any questions or need any additional information, please do not hesitate to contact me at [rphadnis@wm.com](mailto:rphadnis@wm.com).

Sincerely,

Guadalupe Recycling and Disposal Facility

A handwritten signature in black ink, appearing to read 'R. Phadnis', with a long horizontal line extending to the right.

Rajan Phadnis  
EP Specialist

Enclosures: Attachment A- Wellfield Monitoring Data for Wells 200, 217, and 218  
Figure 1. – Gas Collection and Control System Map

cc: Enrique Perez, GRDF  
Bill Louis, GRDF  
Mike Winter, GRDF

**Attachment A**

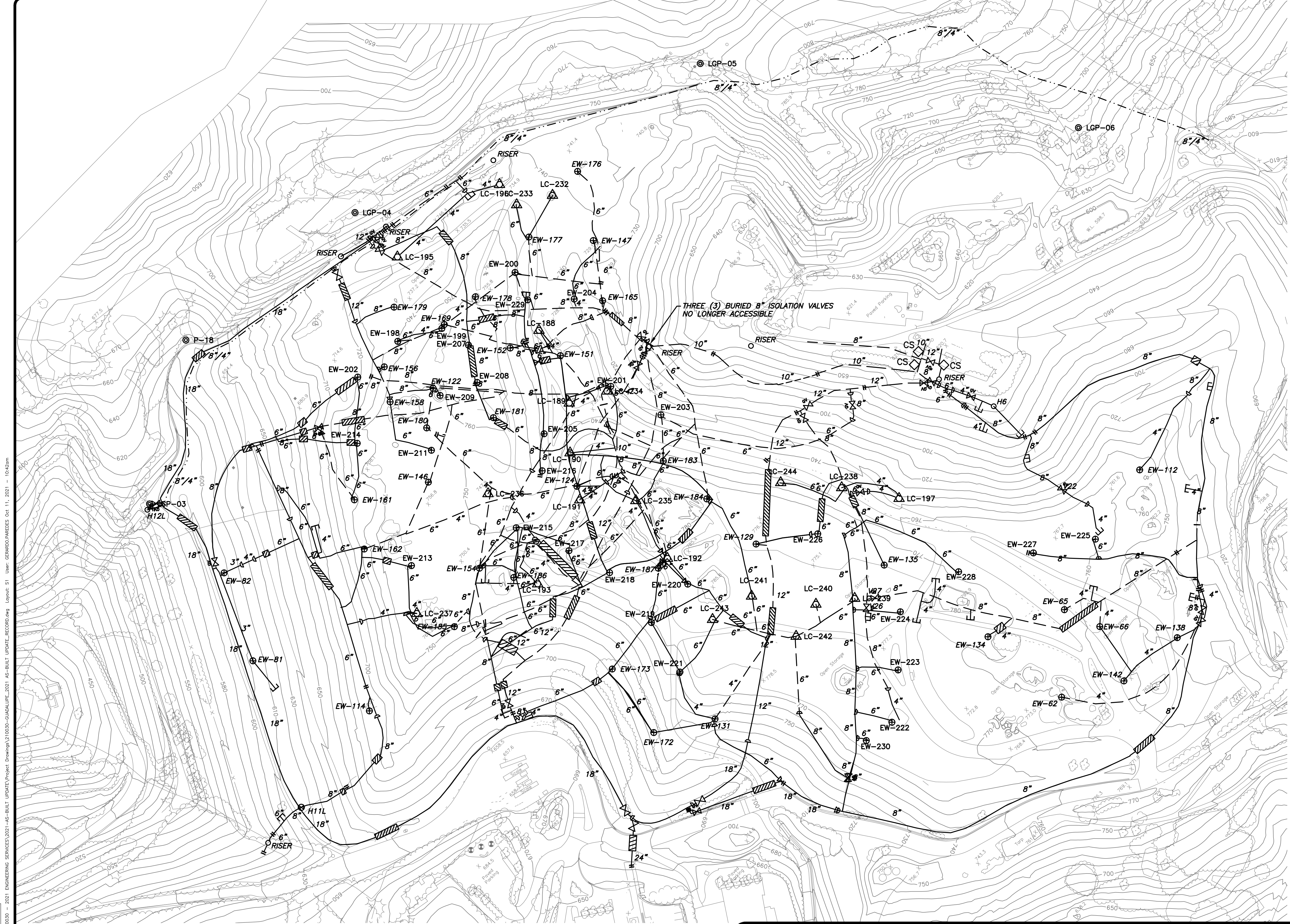
**Wellfield Monitoring and CO Data for Wells 200, 217, and 218**

**Table 1. GRDF Historical Wellfield Data For Wells 200, 217 and 218**

Device Name	Date Time	CH4 (Methane)(%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen)(%)	Balance Gas(%)	Initial Temperature(oF)	Adjusted Temperature(oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GUAD0200	6/16/2021 14:35	52.7	40.8	0.2	6.3	126.0	127.0	-36.4	-37.7
GUAD0200	7/7/2021 14:33	47.8	43.8	0.2	8.2	124.0	124.1	-29.1	-29.2
GUAD0200	7/28/2021 21:11	49.7	39.4	0.5	10.4	124.0	124.0	-33.4	-27.3
GUAD0200	8/12/2021 12:45	55.3	43.0	1.6	0.1	125.0	123.0	-29.4	-29.4
GUAD0200	9/3/2021 9:13	58.4	41.5	0.0	0.1	129.1	129.1	-27.7	-27.4
GUAD0200	9/11/2021 13:26	57.6	42.3	0.0	0.1	129.0	128.0	-34.1	-34.4
GUAD0200	10/7/2021 15:29	57.5	39.9	0.0	2.6	134.1	134.1	-15.3	-15.3
GUAD0200	10/12/2021 16:24	58.6	39.5	0.0	1.9	130.5	132.3	-5.9	-5.9
GUAD0200	10/12/2021 16:26	CO was 0 ppm							
GUAD0200	10/19/2021 13:02	59.00	39.20	0.20	1.60	128.80	128.90	-1.13	-1.23
GUAD0200	10/19/2021 13:04	CO was 5 ppm							
GUAD0200	11/4/2021 14:15	58.5	41.5	0.0	0.0	128.4	128.5	-0.3	-0.5
GUAD0200	11/18/2021 12:45	56.8	43.2	0.1	-0.1	125.5	126.8	-11.86	-12.6
GUAD0200	11/18/2021 12:50	CO was 5 ppm							
GUAD0217	6/11/2021 13:19	44.0	40.9	0.0	15.1	129.0	129.0	-0.3	-0.3
GUAD0217	7/19/2021 18:54	27.3	32.1	0.2	40.4	127.0	126.0	-12.1	-1.6
GUAD0217	8/9/2021 14:32	30.8	32.7	0.3	36.2	124.0	124.0	-0.6	-0.5
GUAD0217	9/10/2021 15:45	31.2	35.9	0.0	32.9	127.0	127.0	-3.3	-2.9
GUAD0217	10/5/2021 13:50	45.3	41.1	0.8	12.8	131.3	131.3	-2.5	-2.5
GUAD0217	10/5/2021 14:50	34.7	37.0	0.0	28.3	128.5	128.5	-5.1	-5.1
GUAD0217	10/5/2021 14:52	CO was 10 ppm							
GUAD0217	10/8/2021 16:13	49.6	42.4	0	8	129.8	129.9	-0.74	-0.79
GUAD0217	10/8/2021 16:15	CO was 0 ppm							
GUAD0217	10/19/2021 12:13	41.8	40	0	18.2	123.6	123.8	-0.98	-0.98
GUAD0217	10/19/2021 12:15	CO was 5 ppm							
GUAD0217	11/1/2021 13:20	CO was 0 ppm							
GUAD0217	11/1/2021 13:23	48.5	44.4	0.0	7.1	126.3	126.2	-0.5	-0.5
GUAD0218	6/11/2021 13:24	38.4	38.1	0.1	23.4	118.0	118.0	-0.3	-0.3
GUAD0218	7/19/2021 18:57	33.3	34.4	0.0	32.3	121.0	121.0	-8.4	-0.4
GUAD0218	8/9/2021 14:38	26.1	30.6	0.0	43.3	125.0	126.0	-5.9	-3.5
GUAD0218	9/10/2021 15:49	24.1	31.4	0.0	44.5	126.0	126.0	-6.2	-3.4
GUAD0218	10/5/2021 13:54	30.2	34.3	0.0	35.5	127.8	127.7	-1.0	-1.0
GUAD0218	10/6/2021 14:12	46.0	40.4	0.1	13.5	132.3	132.3	-0.7	-0.7
GUAD0218	10/8/2021 16:07	44.8	41.1	0.0	14.1	111.7	111.5	-0.2	-0.2
GUAD0218	10/8/2021 16:08	CO was 0 ppm							
GUAD0218	10/19/2021 11:46	43.7	37.6	0.0	18.7	108.0	107.8	-0.2	-0.2
GUAD0218	10/19/2021 11:49	CO was 5 ppm							
GUAD0218	11/1/2021 13:11	50.1	42.6	0.0	7.3	126.5	126.5	-1.1	-1.1
GUAD0218	11/1/2021 13:14	CO was 0 ppm							

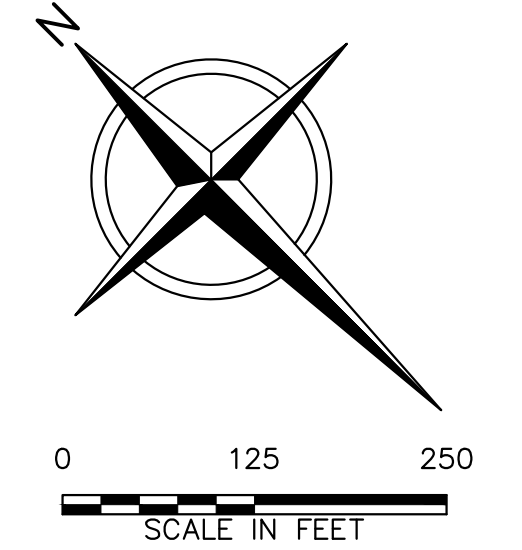
**Figure 1**

**Gas Collection and Control System Map**



**LEGEND**

	PROPERTY BOUNDARY
	EXISTING 10" CONTOUR
	EXISTING ABOVEGROUND PIPING
	EXISTING BELOWGROUND PIPING
	INSTALLED LEACHATE PIPING
	EXISTING HORIZONTAL COLLECTOR
	EXISTING LFG EXTRACTION WELL
	EXISTING REMOTE WELLHEAD
	EXISTING PROBE
	EXISTING HORIZONTAL COLLECTOR WELLHEAD
	EXISTING LOCAL CONTROL WELL
	EXISTING VALVE
	EXISTING BLIND FLANGE
	EXISTING FLANGE CONNECTION
	EXISTING REDUCER FITTING
	EXISTING ROAD CROSSING
	EXISTING CONDENSATE SUMP
	EXISTING RISER
	EXISTING CAP ON EXISTING PIPE



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: MARCH 26, 2021. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
  2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
  3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
  4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
  5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
  8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021 AND AUGUST 21, 2021.

**RECORD DRAWINGS**

File: X:\PROJECTS\GUADALUPE\210030 - 2021 ENGINEERING SERVICES\2021-AS-BUILT UPDATE\Drawings\210030-GUADALUPE\_2021-AS-BUILT UPDATE\_RECORD.dwg Layout: S1 User: GEARADO-PAREDES Oct 11, 2021 - 10:42am



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	10/11/21	DATE OF ISSUE				
		DRAWN BY	GVP			
		DESIGNED BY	GVP			
		CHECKED BY	AMN			
		APPROVED BY	PJS			



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
**2021 GCCS IMPROVEMENTS**  
**AS-BUILT SITE PLAN**

SHEET NO.  
**1**  
 PROJECT NO.  
 210030



**APPENDIX D**  
**WELL SSM LOG**

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Tino Robles/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA  
SSMP REPORT - October 1, 2021 Through March 31, 2022

Identify Well & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Well ID Number:122 Startup Event	10/4/21 10:54	10/4/21 10:56	0.03	196 hours (8 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/4/2021	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:122 Malfunction Event	10/12/21 14:25	10/12/21 14:27	0.03	196 hours (8 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/12/2021	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:209 Shutdown Event	10/12/21 14:20	10/12/21 14:22	0.03	195 hours (8 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/12/2021	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:114 Malfunction Event	10/13/21 11:30	10/13/21 11:32	0.03	214 hours (9 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/13/2021	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:186 Malfunction Event	10/25/21 7:55	10/25/21 7:57	0.03	408 hours (17 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/25/2021	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:186 Malfunction Event	11/11/21 7:30	11/11/21 7:32	0.03	408 hours (17 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/11/2021	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:114 Malfunction Event	10/13/21 11:40	10/13/21 11:42	0.03	500 hours (21 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/13/2021	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:114 Malfunction Event	11/3/21 8:00	11/3/21 8:02	0.03	500 hours (21 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/3/2021	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:62 Malfunction Event	1/13/22 11:30	1/13/22 11:32	0.03	480 hours (20 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/13/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:62 Malfunction Event	2/2/22 11:00	2/2/22 11:02	0.03	480 hours (20 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:134 Malfunction Event	2/14/22 10:50	2/14/22 10:52	0.03	1,093 hours (46 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/14/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:134 Malfunction Event	3/31/22 23:59	4/1/22 0:01	0.03	1,093 hours (46 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/31/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:176 Malfunction Event	2/22/22 15:00	2/22/22 15:02	0.03	897 hours (37 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/22/2022	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Well ID Number:176 Malfunction Event	3/31/22 23:59	4/1/22 0:01	0.03	897 hours (37 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/31/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Startup Event								Automatic (Go to Section 11)		X	No (Stop)	No (Stop)

N/A = Not Applicable  
Offline Wells

**(a) STANDARD OPERATING PROCEDURES**

**Shutdown**

- | Procedure No. | Procedure   |
|---------------|---|
| 1.            | Ensure that there is no unsafe conditions present, contact manager immediately  |
| 2.            | Initiate shutdown sequence below by one or more of the following (Note date and time in Section 1 of form above) <ul style="list-style-type: none"> <li>a. Press Emergency Stop if necessary</li> <li>b. Close On/Off switch(es) or Push On/Off button(s)</li> <li>c. Close adjacent valves if necessary</li> </ul> |
| 3.            | Observe that system achieves normal shutdown ranges for levels, pressures, and temperatures (Note date and time in Section 2 of form above)   |

**Startup**

- | Procedure No. | Procedure   |
|---------------|---|
| 1.            | Ensure that there is no unsafe conditions present   |
| 2.            | Ensure that the system is ready to start by one of the following: <ul style="list-style-type: none"> <li>a. Valves are in correct position</li> <li>b. Levels, pressures, and temperatures are within normal starting range</li> <li>c. Alarms are cleared</li> <li>d. Power is on and available to control panel and ready to energized equipment.</li> <li>e. Emergency stop is de-energized</li> </ul> |
| 3.            | Initiate start sequence (Note time and date in section 1 of form above)   |
| 4.            | Observe that system achieves normal shutdown ranges for levels, pressures, and temperatures (Note time and date in Section 2 of form above)   |

**Malfunction**

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
<b>LFG Collection and Control System</b>				
Blower or Other Gas Mover Equipment	Applies vacuum to wellfield to extract LFG and transport to control device	Loss of LFG Flow/Blower Malfunction	<ul style="list-style-type: none"> <li>-Flame arrestor fouling/deterioration</li> <li>-Automatic valve problems</li> <li>-Blower failure (e.g., belt, motor, impeller, coupling, seizing, etc.)</li> <li>-Loss of power</li> <li>-Extraction piping failure</li> <li>-Condensate knock-out problems</li> <li>-Extraction piping blockages</li> </ul>	<ol style="list-style-type: none"> <li>1. Repair breakages in extraction piping</li> <li>2. Clean flame arrestor</li> <li>3. Repair blockages in extraction piping</li> <li>4. Verify automatic valve operation, compressed air/nitrogen supply</li> <li>5. Notify power utility, if appropriate</li> <li>6. Provide/utilize auxiliary power source, if necessary</li> <li>7. Repair Settlement in Collection Piping</li> <li>8. Repair Blower</li> <li>9. Activate back-up blower, if available</li> <li>10. Clean knock-up pot/demister</li> <li>11. Drain knock-out pot</li> </ol>
Extraction Wells and Collection Piping	Conduits for extractions and movement of LFG flow	Collection well and pipe failures	<ul style="list-style-type: none"> <li>-Break/crack in header or lateral piping</li> <li>-Leaks at wellheads, valves, flanges, Test ports, seals, couplings, etc.</li> <li>-Collection piping blockages</li> <li>-Problems due to settlement (e.g. pipe separation, deformation, development of low points)</li> </ul>	<ol style="list-style-type: none"> <li>12. Repair leaks or breaks in lines or wellheads</li> <li>13. Follow procedures for loss of LFG flow/blower malfunction</li> <li>14. Repair blockages in collection piping</li> <li>15. Repair settlement in collection piping</li> <li>16. Re-install, repair, or replace piping</li> </ol>
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	<ul style="list-style-type: none"> <li>- Force majeure/Act of God (e.g., lightning, flood, earthquake, etc.)</li> <li>-Area-wide or local blackout or brown-out</li> <li>-Interruption in service (e.g. blown service fuse)</li> <li>-Electrical line failure</li> <li>-Breaker trip</li> <li>-Transformer failure</li> <li>-Motor starter failure/trip</li> <li>-Overdraw of power</li> <li>-Problems in electrical panel</li> <li>-Damage to electrical equipment from on-site operations</li> </ul>	<ol style="list-style-type: none"> <li>17. Check/reset breaker</li> <li>18. Check/repair electrical panel components</li> <li>19. Check/repair transformer</li> <li>20. Check/repair motor starter</li> <li>21. Check/repair electrical line</li> <li>22. Test amperage to various equipment</li> <li>23. Contact electricity supplier</li> <li>24. Contact/contract electrician</li> <li>25. Provide auxiliary power (if necessary)</li> </ol>
LFG Control Device	Combusts LFG	Low temperature conditions at control device	<ul style="list-style-type: none"> <li>-Problems with temperature -monitoring equipment</li> <li>-Problems/failure of -thermocouple and/or thermocouple wiring</li> <li>-Change of LFG flow</li> <li>-Change of LFG quality</li> <li>-Problems with air louvers</li> <li>-Problems with air/fuel controls</li> <li>-Change in atmospheric conditions</li> </ul>	<ol style="list-style-type: none"> <li>26. Check/repair temperature monitoring equipment</li> <li>27. Check/repair thermocouple and/or wiring</li> <li>28. Follow procedures for loss of flow/blower malfunction</li> <li>29. Check/adjust louvers</li> <li>30. Check/adjust air/fuel controls</li> </ol>
LFG Control Device	Combusts LFG	Loss of Flame	<ul style="list-style-type: none"> <li>-Problems/failure of thermocouple</li> <li>-Loss/change of LFG flow</li> <li>-Loss/change of LFG quality</li> <li>-Problems with air/fuel controls</li> <li>-Problems/failure of flame sensor</li> <li>-Problems with temperature monitoring</li> </ul>	<ol style="list-style-type: none"> <li>31. Check/repair temperature monitoring equipment</li> <li>32. Check/repair thermocouple</li> <li>33. Follow procedures for loss of flow/blower malfunction</li> <li>34. Check/adjust air/fuel controls</li> <li>35. Check/adjust/repair flame sensor</li> <li>36. Check/adjust LFG collectors</li> </ol>
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	<ul style="list-style-type: none"> <li>-Problems with orifice plate, pitot tube, or other in-line flow measuring device</li> <li>-Problems with device controls and/or wiring</li> <li>-Problems with chart recorder</li> </ul>	<ol style="list-style-type: none"> <li>37. Check/adjust/repair flow measuring device and/or wiring</li> <li>38. Check/repair chart recorder</li> <li>39. Replace paper in chart recorder</li> </ol>
Temperature Monitoring/ Recording Device	Monitors and records combustion temperature of enclosed combustion device	Malfunctions of Temperature Monitoring/Recording Device	<ul style="list-style-type: none"> <li>-Problems with thermocouple</li> <li>-Problems with device controls and/or wiring</li> <li>-Problems with chart recorder</li> </ul>	<ol style="list-style-type: none"> <li>40. Check/adjust/repair thermocouple</li> <li>41. Check/adjust/repair controller and/or wiring</li> <li>42. Check/adjust/repair electrical panel components</li> <li>43. Check/repair chart recorder</li> <li>44. Replace paper in chart recorder</li> </ol>
Control Device	Combusts LFG	Other Control Device Malfunctions	<ul style="list-style-type: none"> <li>-Control device smoking (i.e. visible emissions)</li> <li>-Problems with flare insulation</li> <li>-Problems with pilot light system</li> <li>-Problems with air louvers</li> <li>-Problems with air/fuel controllers</li> <li>-Problems with thermocouple</li> <li>-Problems with burners</li> <li>-Problems with flame arrestor</li> <li>-Alarmed malfunction conditions not covered above</li> <li>-Unalarmed conditions discovered during inspection not covered above</li> </ul>	<ol style="list-style-type: none"> <li>45. Site-specific diagnosis procedures</li> <li>46. Site-specific responses actions based on diagnosis</li> <li>47. Open manual louvers</li> <li>48. Clean pitot orifice</li> <li>49. Clean/drain flame arrestor</li> <li>50. Refill propane supply</li> <li>51. Check/repair pilot sparking system</li> </ol>

(b) For each permit limit exceedance complete an "SSM Plan Departure Form".

**APPENDIX E**  
**FLARE SSM LOG**

**CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG**

**AFFECTED EQUIPMENT: A-9 Flare**

Completed By: Tino Robles/Rajan Phadnis

<b>Guadalupe Recycling &amp; Disposal Facility, San Jose, CA</b> <b>SSMP REPORT - From October 1, 2021 Through March 31, 2022</b>												
Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-9 Flare				4,368.0	Flare remains shutdown. Flare A9 not required to operate in conjunction with flare A17.	113: Inspection and Maintenance	1/0/1900	Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
Startup Event			116: Well Raising			Automatic (Go to Section 10)		No (Stop)				
Shutdown Event			117: Gas Collection			1/0/1900	Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)		
Malfunction Event			118: Construction Activities				Automatic (Go to Section 10)				No (Stop)	
Component: A-9 Flare						113: Inspection and Maintenance						
Startup Event						116: Well Raising						
Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
TOTAL DOWNTIME October 1, 2021 Through March 31, 2022				4368.0								
TOTAL RUNTIME October 1, 2021 Through March 31, 2022 (HOURS):				0.0								
TOTAL HOURS April 1, 2021 Through September 30, 2021 (HOURS):				4368.0								

**CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG**

**AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)**

Completed By: Tino Robles/Rajan Phadnis

Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/20/21 17:40	10/20/21 17:44	0.07	17.73	Flare shutdown during PG&E power outage. RCA was filed and RCA No. 08C52 was assigned. Flare was inspected and restarted.	116. Well Raising	10/20/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/21/21 11:24	10/21/21 11:28	0.07			X 113. Inspection and Maintenance	10/21/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/22/21 05:58	10/22/21 06:02	0.07	7.20	Flare shutdown during PG&E power outage. Amended RCA was filed and RCA No. 08C55 was assigned. Flare was inspected and restarted.	116. Well Raising	10/22/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/22/21 13:10	10/22/21 13:14	0.07			X 113. Inspection and Maintenance	10/22/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 04:24	10/25/21 04:28	0.07	1.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 05:36	10/25/21 05:40	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 05:42	10/25/21 05:46	0.07	0.30	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 06:00	10/25/21 06:04	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 06:02	10/25/21 06:06	0.07	0.37	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 06:24	10/25/21 06:28	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 06:26	10/25/21 06:30	0.07	0.30	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 06:44	10/25/21 06:48	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 06:48	10/25/21 06:52	0.07	2.40	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 09:12	10/25/21 09:16	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 09:16	10/25/21 09:20	0.07	0.47	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 09:44	10/25/21 09:48	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	10/25/21 09:46	10/25/21 09:50	0.07	1.43	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising	10/25/2021	X Automatic (Go to Section 11)	Procedure No. 1 to 4	No (Stop)	X No (Stop)	
Maifunction Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-14 Flare												
X Startup Event	10/25/21 11:12	10/25/21 11:16	0.07			X 113. Inspection and Maintenance	10/25/2021	X Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Shutdown Event						116. Well Raising		Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
Maifunction Event						117. Gas Collection		Automatic (Go to Section 11)		No (Stop)	X No (Stop)	



**CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG**

**AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)**

Completed By: Tino Robles/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2021 Through September 30, 2021												
Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event	10/25/21 17:10	10/25/21 17:14	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	10/25/2021	X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.37								
Component: A-14 Flare												
Startup Event	10/25/21 17:32	10/25/21 17:36	0.07			X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities	10/25/2021	X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 17:40	10/25/21 17:44	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.23								
Component: A-14 Flare												
Startup Event	10/25/21 17:54	10/25/21 17:58	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 18:00	10/25/21 18:04	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.43								
Component: A-14 Flare												
Startup Event	10/25/21 18:26	10/25/21 18:30	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 18:32	10/25/21 18:36	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.10								
Component: A-14 Flare												
Startup Event	10/25/21 18:38	10/25/21 18:42	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 18:44	10/25/21 18:48	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.70								
Component: A-14 Flare												
Startup Event	10/25/21 19:26	10/25/21 19:30	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 19:32	10/25/21 19:36	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.10								
Component: A-14 Flare												
Startup Event	10/25/21 19:38	10/25/21 19:42	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 19:44	10/25/21 19:48	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.13								
Component: A-14 Flare												
Startup Event	10/25/21 19:52	10/25/21 19:56	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 19:58	10/25/21 20:02	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				1.07								
Component: A-14 Flare												
Startup Event	10/25/21 21:02	10/25/21 21:06	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 21:10	10/25/21 21:14	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.20								
Component: A-14 Flare												
Startup Event	10/25/21 21:22	10/25/21 21:26	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												
Component: A-17 Flare												
Startup Event	10/25/21 21:30	10/25/21 21:34	0.07		Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Mafunction Event				0.13								
Component: A-14 Flare												
Startup Event	10/25/21 21:38	10/25/21 21:42	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Mafunction Event												



**CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG**

**AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)**

Completed By: Tino Robles/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2021 Through September 30, 2021												
Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-17 Flare												
X Startup Event	10/25/21 21:44	10/25/21 21:48	0.07	0.43	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	10/25/21 22:10	10/25/21 22:14	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	10/25/21 22:18	10/25/21 22:22	0.07	0.20	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	10/25/21 22:30	10/25/21 22:34	0.07			X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	10/25/21 22:36	10/25/21 22:40	0.07	11.90	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/25/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	10/26/21 10:30	10/26/21 10:34	0.07			X 113. Inspection and Maintenance	10/26/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	10/26/21 10:44	10/26/21 10:48	0.07	0.13	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/26/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	10/26/21 10:52	10/26/21 10:56	0.07			X 113. Inspection and Maintenance	10/26/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	10/26/21 10:58	10/26/21 11:02	0.07	0.23	Flare shutdown due to blower VFD malfunction. Flare was inspected and restarted.	X 113. Inspection and Maintenance	10/26/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	10/26/21 11:12	10/26/21 11:16	0.07			X 113. Inspection and Maintenance	10/26/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	11/24/21 11:40	11/24/21 11:44	0.07	0.53	Flare was shutdown to replace VFD and switch blowers. Flare was inspected and restarted.	X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 8)	Procedure 1 to 3	X	Yes (Go to Section 10)	Yes (Go to Section 11)
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	11/24/21 12:12	11/24/21 12:16	0.07			X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 8)	Procedure 1 to 4	X	Yes (Go to Section 10)	Yes (Go to Section 11)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	11/24/21 12:22	11/24/21 12:26	0.07	0.30	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	11/24/21 12:40	11/24/21 12:44	0.07			X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	11/24/21 12:50	11/24/21 12:54	0.07	0.10	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	11/24/21 12:56	11/24/21 13:00	0.07			X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	11/24/21 13:06	11/24/21 13:10	0.07	0.13	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	11/24/21 13:14	11/24/21 13:18	0.07			X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				
Component: A-17 Flare												
X Startup Event	11/24/21 13:18	11/24/21 13:22	0.07	0.17	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)		Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event								116. Well Raising				
Component: A-14 Flare												
X Startup Event	11/24/21 13:28	11/24/21 13:32	0.07			X 113. Inspection and Maintenance	11/24/2021	Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event								116. Well Raising				

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)

Completed By: Tino Robles/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2021 Through September 30, 2021												
Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event	12/09/21 09:20	12/09/21 09:24	0.07	0.13	Flare shutdown due to low temperature alarm during maintenance and inspection on lower. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	12/9/2021	X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-14 Flare												
Startup Event	12/09/21 09:28	12/09/21 09:32	0.07			X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities	12/9/2021	X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	12/09/21 09:30	12/09/21 09:34	0.07	0.73	Flare shutdown due to low temperature alarm during maintenance and inspection on lower. Flare was inspected and restarted.	X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-14 Flare												
Startup Event	12/09/21 10:14	12/09/21 10:18	0.07			X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	12/09/21 10:18	12/09/21 10:22	0.07	0.17	Flare shutdown due to low temperature alarm during maintenance and inspection on lower. Flare was inspected and restarted.	X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-14 Flare												
Startup Event	12/09/21 10:28	12/09/21 10:32	0.07			X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	12/09/21 10:32	12/09/21 10:36	0.07	0.13	Flare shutdown due to low temperature alarm during maintenance and inspection on lower. Flare was inspected and restarted.	X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-14 Flare												
Startup Event	12/09/21 10:40	12/09/21 10:44	0.07			X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	12/09/21 10:54	12/09/21 10:58	0.07	0.07	Flare shutdown due to low temperature alarm during maintenance and inspection on lower. Flare was inspected and restarted.	X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-14 Flare												
Startup Event	12/09/21 10:58	12/09/21 11:02	0.07			X 113. Inspection and Maintenance	12/9/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	12/23/21 09:36	12/23/21 09:40	0.07	1.57	Flare was shutdown due to PG&E power outage. RCA was filed and was RCA Number 08E36 was assigned. Flare was inspected and restarted.	X 113. Inspection and Maintenance	12/23/2021	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-14 Flare												
Startup Event	12/23/21 11:10	12/23/21 11:14	0.07			X 113. Inspection and Maintenance	12/23/2021	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	1/18/22 08:34	1/18/22 08:38	0.07	0.90	Flare was shutdown during annual flare inspection and maintenance. Flare was inspected and restarted.	X 113. Inspection and Maintenance	1/18/2022	Manual (Go to Section 8)	Procedure 1 to 3		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	1/18/22 09:28	1/18/22 09:32	0.07			X 113. Inspection and Maintenance	1/18/2022	Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	1/25/22 10:00	1/25/22 10:02	0.03	2.60	Flare was shutdown during maintenance and repair on Dry Vac. Flare was inspected and restarted.	X 113. Inspection and Maintenance	1/25/2022	Manual (Go to Section 8)	Procedure 1 to 3		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	1/25/22 12:36	1/25/22 12:42	0.10			X 113. Inspection and Maintenance	1/25/2022	Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	2/15/22 07:38	2/15/22 07:42	0.07	0.20	Flare shutdown due to low temperature alarm. Flare was inspected and restarted.	X 113. Inspection and Maintenance	2/15/2022	Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Component: A-17 Flare												
Startup Event	2/15/22 07:50	2/15/22 07:54	0.07			X 113. Inspection and Maintenance	2/15/2022	Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	2/24/22 07:16	2/24/22 07:18	0.03	2.87	Flare A-17 was shutdown during blower maintenance. Seal and bearings were replaced. Flare was inspected and restarted.	X 113. Inspection and Maintenance	2/24/2022	Manual (Go to Section 8)	Procedure 1 to 3		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Component: A-17 Flare												
Startup Event	2/24/22 10:08	2/24/22 10:14	0.10			X 113. Inspection and Maintenance	2/24/2022	Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		X Automatic (Go to Section 10)		X	No (Stop)	No (Stop)

**CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG**

**AFFECTED EQUIPMENT: A-17 Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)**

Completed By: Tino Robles/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2021 Through September 30, 2021												
Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance		X Manual (Go to Section 8)	Procedure 1 to 3		Yes (Go to Section 10)	Yes (Go to Section 11)
X Shutdown Event	2/24/22 10:22	2/24/22 10:24	0.03	1.30	Flare A-17 was shutdown during blower maintenance. Seal and bearings were replaced. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	2/24/2022	Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Malfunction Event												
Component: A-17 Flare												
X Startup Event	2/24/22 11:40	2/24/22 11:46	0.10			X 113. Inspection and Maintenance	2/24/2022	X Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Malfunction Event												
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance	3/11/2022	X Manual (Go to Section 8)	Procedure 1 to 3		Yes (Go to Section 10)	Yes (Go to Section 11)
X Shutdown Event	3/11/22 07:18	3/11/22 07:22	0.07	5.57	Flare A-17 was shutdown during repairs on condensate system part in the stack. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities		Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Malfunction Event												
Component: A-17 Flare												
X Startup Event	3/11/22 12:52	3/11/22 12:56	0.07			X 113. Inspection and Maintenance	3/11/2022	X Manual (Go to Section 8)	Procedure 1 to 4		Yes (Go to Section 10)	Yes (Go to Section 11)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		Automatic (Go to Section 10)		X	No (Stop)	No (Stop)
Malfunction Event												
Component: A-17 Flare												
Startup Event						X 113. Inspection and Maintenance	3/11/2022	X Manual (Go to Section 9)			Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event	3/11/22 12:54	3/11/22 12:56	0.03	0.20	Flare shutdown during startup sequence after repair and maintenance on condensate system. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities		Automatic (Go to Section 11)			No (Stop)	X No (Stop)
Malfunction Event												
Component: A-17 Flare												
X Startup Event	3/11/22 13:06	3/11/22 13:12	0.10			X 113. Inspection and Maintenance	3/11/2022	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
Shutdown Event						116. Well Raising 117. Gas Collection 118. Construction Activities		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event												

TOTAL DOWNTIME October 1, 2021 Through December 31, 2022 (HOURS):	70.13
TOTAL RUNTIME October 1, 2021 Through December 31, 2022 (HOURS):	4297.9
TOTAL HOURS October 1, 2021 Through December 31, 2022 (HOURS):	4368.0

**(a) STANDARD OPERATING PROCEDURES**

**Shutdown**

**Procedure No.**

**Procedure**

1. Ensure that there is no unsafe conditions present, contact manager immediately
2. Initiate shutdown sequence below by one or more of the following (Note date and time in Section 1 of form above)
  - a. Press Emergency Stop if necessary
  - b. Close On/Off switch(es) or Push On/Off button(s)
  - c. Close adjacent valves if necessary
3. Observe that system achieves normal shutdown ranges for levels, pressures, and temperatures (Note date and time in Section 2 of form above)

**Startup**

**Procedure No.**

**Procedure**

1. Ensure that there is no unsafe conditions present
2. Ensure that the system is ready to start by one of the following:
  - a. Valves are in correct position
  - b. Levels, pressures, and temperatures are within normal starting range
  - c. Alarms are cleared
  - d. Power is on and available to control panel and ready to energized equipment.
  - e. Emergency stop is de-energized
3. Initiate start sequence (Note time and date in section 1 of form above)
4. Observe that system achieves normal shutdown ranges for levels, pressures, and temperatures (Note time and date in Section 2 of form above)

**Malfunction**

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
Blower or Other Gas Mover Equipment	Applies vacuum to wellfield to extract LFG and transport to control device	Loss of LFG Flow/Blower Malfunction	-Flame arrester fouling/deterioration -Automatic valve problems -Blower failure (e.g., belt, motor, impeller, coupling, seizing, etc.) -Loss of power  -Extraction piping failure -Condensate knock-out problems -Extraction piping blockages	1. Repair breakages in extraction piping 2. Clean flame arrester 3. Repair blockages in extraction piping  4. Verify automatic valve operation, compressed air/nitrogen supply 5. Notify power utility, if appropriate 6. Provide/utilize auxiliary power source, if necessary 7. Repair Settlement in Collection Piping 8. Repair Blower 9. Activate back-up blower, if available 10. Clean knock-up pot/demister 11. Drain knock-out pot
Extraction Wells and Collection Piping	Conduits for extractions and movement of LFG flow	Collection well and pipe failures	-Break/crack in header or lateral piping -Leaks at wellheads, valves, flanges, Test ports, seals, couplings, etc. -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points)	12. Repair leaks or breaks in lines or wellheads 13. Follow procedures for loss of LFG flow/blower malfunction 14. Repair blockages in collection piping 15. Repair settlement in collection piping  16. Re-install, repair, or replace piping
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	- Force majeure/Act of God (e.g., lightning, flood, earthquake, etc.) -Area-wide or local blackout or brown-out -Interruption in service (e.g. blown service fuse) -Electrical line failure -Breaker trip -Transformer failure -Motor starter failure/trip -Overdraw of power -Problems in electrical panel -Damage to electrical equipment from on-site operations	17. Check/reset breaker  18. Check/repair electrical panel components 19. Check/repair transformer 20. Check/repair motor starter 21. Check/repair electrical line 22. Test amperage to various equipment 23. Contact electricity supplier 24. Contact/contract electrician 25. Provide auxiliary power (if necessary)
LFG Control Device	Combusts LFG	Low temperature conditions at control device	-Problems with temperature -monitoring equipment -Problems/failure of -thermocouple and/or thermocouple wiring -Change of LFG flow  -Change of LFG quality -Problems with air louvers -Problems with air/fuel controls -Change in atmospheric conditions	26. Check/repair temperature monitoring equipment  27. Check/repair thermocouple and/or wiring  28. Follow procedures for loss of flow/blower malfunction 29. Check/adjust louvers 30. Check/adjust air/fuel controls
LFG Control Device	Combusts LFG	Loss of Flame	-Problems/failure of thermocouple -Loss/change of LFG flow -Loss/change of LFG quality  -Problems with air/fuel controls -Problems/failure of flame sensor -Problems with temperature monitoring	31. Check/repair temperature monitoring equipment 32. Check/repair thermocouple 33. Follow procedures for loss of flow/blower malfunction 34. Check/adjust air/fuel controls 35. Check/adjust/repair flame sensor 36. Check/adjust LFG collectors
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	-Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder	37. Check/adjust/repair flow measuring device and/or wiring 38. Check/repair chart recorder 39. Replace paper in chart recorder
Temperature Monitoring/ Recording Device	Monitors and records combustion temperature of enclosed combustion device	Malfunctions of Temperature Monitoring/Recording Device	-Problems with thermocouple -Problems with device controls and/or wiring -Problems with chart recorder	40. Check/adjust/repair thermocouple 41. Check/adjust/repair controller and/or wiring 42. Check/adjust/repair electrical panel components 43. Check/repair chart recorder 44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	-Control device smoking (i.e. visible emissions) -Problems with flare insulation -Problems with pilot light system -Problems with air louvers -Problems with air/fuel controllers -Problems with thermocouple -Problems with burners -Problems with flame arrester -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above	45. Site-specific diagnosis procedures 46. Site-specific responses actions based on 47. Open manual louvers 48. Clean pitot orifice 49. Clean/drain flame arrester 50. Refill propane supply 51. Check/repair pilot sparking system

(b) For each permit limit exceedance complete an "SSM Plan Departure Form".

## **APPENDIX F**

### **TEMPERATURE DEVIATION / INOPERATIVE MONITOR / MISSING DATA REPORT**

Guadalupe Recycling & Disposal Facility, San Jose, CA							
TEMPERATURE DEVIATION/ INOPERATIVE MONITOR/MISSING DATA REPORT - From October 1, 2021 Through March 31, 2022							
Flare A-9							
REPORT PREPARED BY:		Rajan Phadnis			DATE:		April 1, 2022
TEMPERATURE SENSING DEVICE:		Thermocouple			MODEL:		Thermo-Electric
START DATE & TIME	END DATE & TIME	DURATION (HOURS)	TEMP (°F)/ FLOW (scfm)	CAUSE	EXPLANATION	ACTION TAKEN	
			No deviations, inoperative monitors, or missing data occurred in October 2021				
			No deviations, inoperative monitors, or missing data occurred in November 2021				
			No deviations, inoperative monitors, or missing data occurred in December 2021				
			No deviations, inoperative monitors, or missing data occurred in January 2022				
			No deviations, inoperative monitors, or missing data occurred in February 2022				
			No deviations, inoperative monitors, or missing data occurred in March 2022				

**NOTES:** °F= degrees Fahrenheit  
scfm= standard cubic feet per minute

**COMMENTS:** The A-9 Flare combustion zone 3-hour average temperature did not drop below the 1,450 degrees Fahrenheit (°F) limit, as required by Title V Permit Condition Number 6188 Part 8, during the reporting period while the flare was in operation.  
The A-9 Flare combustion zone 3-hour average temperature did not drop below the 1,593°F limit established in the April 29, 2020 Annual Source Test and , pursuant to Title V Permit A3294 Condition 6188 Part 8, during the reporting period while the flare was in operation.

**Guadalupe Recycling & Disposal Facility, San Jose, CA**

**TEMPERATURE DEVIATION/ INOPERATIVE MONITOR/MISSING DATA REPORT - From October 1, 2021 Through March 31, 2022**

Flare A-17 (previously designated as A-14)

<b>REPORT PREPARED BY:</b>	Rajan Phadnis	<b>DATE:</b>	April 1, 2022
<b>TEMPERATURE SENSING DEVICE:</b>	Thermocouple	<b>MODEL:</b>	Thermo-Electric

START DATE & TIME	END DATE & TIME	DURATION (HOURS)	TEMP (°F)/ FLOW (scfm)	CAUSE	EXPLANATION	ACTION TAKEN
					No deviations, inoperative monitors, or missing data occurred in October 2021	
					No deviations, inoperative monitors, or missing data occurred in November 2021	
					No deviations, inoperative monitors, or missing data occurred in December 2021	
					No deviations, inoperative monitors, or missing data occurred in January 2022	
					No deviations, inoperative monitors, or missing data occurred in February 2022	
					No deviations, inoperative monitors, or missing data occurred in March 2022	

**NOTES:** °F= degrees Fahrenheit  
scfm= standard cubic feet per minute

**COMMENTS:** The A-17 Flare combustion zone 3-hour average temperature did not drop below the 1,450°F limit established in the February 18, 2021 Annual Source Test, pursuant to as required by Authority to Construct. The A-17 Flare combustion zone 3-hour average temperature did not drop below the 1,449°F limit established in the February 18, 2021 Annual Source Test

## **APPENDIX G**

### **COVER INTEGRITY MONITORING REPORTS**



# Monthly Cover Monitoring

**LOCATION:** Guadalupe Rubbish Disposal Company, Inc.

**INSPECTION DATE:** October 27, 2021

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

**REPAIR AREAS:**

Location Description (cell and near-by wells)	Date of Repair	Description of Repair (add soil, water)

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

## Monthly Cover Monitoring

**LOCATION:** Guadalupe Rubbish Disposal Company, Inc.

**INSPECTION DATE:** November 26, 2021

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	
<b>REPAIR AREAS:</b>			
Location Description (cell and near-by wells)	Date of Repair	Description of Repair (add soil, water)	
Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4			

## Monthly Cover Monitoring

**LOCATION:** Guadalupe Rubbish Disposal Company, Inc.

**INSPECTION DATE:** December 28, 2021

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking	X		
Acceptable vegetation	X		
Exposed waste		X	

**REPAIR AREAS:**

Location Description (cell and near-by wells)	Date of Repair	Description of Repair (add soil, water)
Surface cracking near Well 188	-	Will be repaired in January 2022
Surface cracking near Well 160	-	Will be repaired in January 2022
Surface cracking near Well 114	-	Will be repaired in January 2022
Surface cracking near Well 244	-	Will be repaired in January 2022

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

### Monthly Cover Monitoring

**LOCATION:** Guadalupe Rubbish Disposal Company, Inc.

**INSPECTION DATE:** January 26, 2022

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

**REPAIR AREAS:**

Location Description (cell and near-by wells)	Date of Repair	Description of Repair (add soil, water)
Surface cracking near Well 188	1/20/2022	Soil was added and compacted
Surface cracking near Well 160	1/20/2022	Soil was added and compacted
Surface cracking near Well 114	1/20/2022	Soil was added and compacted
Surface cracking near Well 244	1/20/2022	Soil was added and compacted

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

# Monthly Cover Monitoring

**LOCATION:** Guadalupe Rubbish Disposal Company, Inc.

**INSPECTION DATE:** February 24, 2022

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

**REPAIR AREAS:**

Location Description (cell and near-by wells)	Date of Repair	Description of Repair (add soil, water)

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

# Monthly Cover Monitoring

**LOCATION:** Guadalupe Rubbish Disposal Company, Inc.

**INSPECTION DATE:** March 29, 2022

**TECHNICIAN:** Tino Robles

<b>COVER &amp; VEGETATION</b>	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

**REPAIR AREAS:**

<b>Location Description (cell and near-by wells)</b>	<b>Date of Repair</b>	<b>Description of Repair (add soil, water)</b>

Note: Monthly cover integrity monitoring is performed pursuant to BAAQMD Regulation 8-34-501.4

## **APPENDIX H**

# **SURFACE EMISSIONS AND COMPONENT LEAK MONITORING REPORTS**



**Guadalupe Rubbish Disposal Company, Inc.**  
15999 Guadalupe Mines Road  
PO Box 20957  
San Jose, California 95160  
T: 408.268.1670

April 7, 2022

Ms. Becky Azevedo  
Guadalupe Rubbish Disposal Co., Inc  
15999 Guadalupe Mines Road  
San Jose, CA 95120

**Re: First Quarter 2022 Surface Emissions and Component Leak Monitoring Report  
for Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This monitoring report for “**Guadalupe Rubbish Disposal Co., Inc. (GRDC)**” contains the results of the First Quarter 2022 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC. (RES). Re-monitoring of surface emissions and component leak monitoring was conducted by RES and/or Waste Management (WM) personnel.

**APPLICABLE REQUIREMENTS**

The monitoring discussed in this report was conducted in accordance with the following requirements:

**Surface Emission Monitoring (SEM)**

- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).
- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) and Section 607 (Landfill Surface Inspection Procedures).
- United States Environmental Protection Agency’s (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA-National Emission Standards for Hazardous Air Pollutants (NESHAP).



## **Component Leak**

- BAAQMD Regulation 8, Rule 34, Section 301 (Landfill Gas Collection and Emission Control System Requirements) and Section 602 (Collection and Control System Leak Inspection procedures).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95464, known as the AB32 LMR.

## **GRDC Plan and Alternative Compliance Measures**

An Alternative Compliance Option (ACO) Request was submitted to the California Air Resources Board (CARB) on May 16, 2011. After receipt of comments, this ACO was amended, restated, and submitted to BAAQMD on July 1, 2016. SEM and Component Leak monitoring was conducted per the methods outlined in the July 1, 2016 ACO.

## **PROCEDURES**

### **General**

The surface of the GRDC disposal area has been divided into one-hundred-and-five (105), approximately 50,000 square foot monitoring grids. Of these grids, eleven (11) currently have no waste in place. The entire landfill surface is monitored with the exception of active portions of the Landfill, slope areas, and as requested in the approved ACO, areas containing only asbestos-containing waste, inert waste and/or non-decomposable waste which are excluded for safety as allowed by CCR Title 17 §95466.

Field personnel walked the surface of the landfill following the walking pattern as depicted the 2011 GRDC AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

The monitoring probe was positioned 2 inches above the ground surface. While walking, the wand tip of the FID was held within 2 inches of the landfill surface while traversing the grid. Per the approved alternative request, the wand tip of the FID was held at 2 inches of vegetation in areas where the landfill surface is covered with low-lying vegetation such as grasses while traversing the grid.

### **Instantaneous Surface Emissions Monitoring**

The Instantaneous and Integrated SEM was conducted using flame ionization detectors (FID), calibrated to 500 parts per million by volume (ppm<sub>v</sub>) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a) and NSPS. The FIDs were calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

RES personnel walked the surface of the landfill on a grid by grid basis with the wand tip held at 2 inches from the landfill surface. While sampling the grid; the technicians also checked any surface impoundments (wells or otherwise) for leaks. Technicians also checked any surface cracks, seeps, or other areas that show evidence of surface emissions (odors or distressed vegetation). Active and sloped areas excluded for safety were documented on field data sheets and maps.

All instantaneous surface monitoring was performed in accordance with the applicable requirements referenced in this report. Any detections of methane above 200 ppm<sub>v</sub> (areas of concern) or 500 ppm<sub>v</sub> (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Appendices of this report. Applicable corrective action and re-monitoring timelines are listed below:

- Corrective actions must be initiated within 5 days of the initial exceedance and re-monitoring shall be conducted within 10 days of the initial exceedance.
  - If the re-monitoring event shows the exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance.
  - If the 1-month re-monitoring event shows the location is still corrected, all re-monitoring requirements have been completed.
- If either the first 10-day or 1-month re-monitoring events show a second exceedance, additional corrective actions shall be completed and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance. If the 1-month re-monitoring event shows the area is still corrected, monitoring requirements have been completed.
- If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

### **Integrated Surface Emissions Monitoring**

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm<sub>v</sub> for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 2 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(2).

Grids with results greater than 25 ppm<sub>v</sub> were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm<sub>v</sub> are subject to the following re-monitoring timeline:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.

- If the 10-day re-monitoring event shows the exceedance is corrected, all re-monitoring requirements have been completed.
- If either the first 10-day re-monitoring event shows a second grid exceedance, additional corrective actions shall be completed and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, all re-monitoring requirements have been completed.
- The second 10-day re-monitoring event shows a third grid exceedance, an additional well shall be installed within 120 days of the third exceedance.

### **Component Leak Monitoring Procedures**

WM personnel monitored the exposed LFG components under positive pressure (pipes, wellheads, valves, blowers, and other mechanical appurtenances) using a TVA 1000 calibrated to 500 ppm<sub>v</sub>. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm<sub>v</sub> per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) and 1,000 ppm<sub>v</sub> per requirements outlined in BAAQMD 8-34-303 were recorded. Applicable corrective action and re-monitoring timelines are listed below:

- Leaks between 500 and 999 ppm<sub>v</sub> must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm<sub>v</sub> must be corrected and re-monitored within 7 days of the initial exceedance.

### **FIRST QUARTER 2022 SEM AND COMPONENT LEAK RESULTS**

The following is a summary of the SEM and component leak monitoring results completed for the First Quarter 2022.

#### **Instantaneous Surface Emissions Monitoring Results**

The Instantaneous surface monitoring was performed on February 9, 2022, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

#### ***Initial Monitoring Event Exceedances of 500 ppm<sub>v</sub>***

There were 4 exceedances of 500 ppm<sub>v</sub> as methane detected on February 9, 2022. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (February 9, 2022).

### Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on February 10, 2022. All locations were observed at less than 500 ppm<sub>v</sub>.

### One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on March 2, 2022. All locations were observed at less than 500 ppm<sub>v</sub>.

### Readings between 200 ppm<sub>v</sub> and 499 ppm<sub>v</sub> (Initial and Re-monitored)

There were no readings between 200 ppm<sub>v</sub> and 499 ppm<sub>v</sub> as methane detected during the initial monitoring event. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm<sub>v</sub> but below 500 ppm<sub>v</sub> are required to be recorded.

## **Integrated Surface Emissions Monitoring Results**

The Integrated surface sampling (ISS) was performed on February 8 and 9, 2022, accordance with the ACO and requirements outlined in CCR Title 17 §95469.

### Initial Monitoring Event Exceedances of 25 ppm<sub>v</sub>

There were no grids with exceedances of 25 ppm<sub>v</sub> as methane detected during monitoring on February 8 and 9, 2022.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B, Integrated SEM 25 ppm<sub>v</sub> Exceedances and Monitoring Log, and SEM Map included in Attachment B, for details.

## **Component Leak Monitoring Results**

Component leak monitoring was conducted per the applicable requirements on February 9, 2022. No leaks greater than 500 ppm<sub>v</sub> were identified during this monitoring period. Please see Attachment C, for details.

## **WEATHER CONDITIONS**

### **Wind Speed Conductions during the Surface Emission Monitoring Events**

Wind speeds during initial monitoring were monitored using a portable weather station. The station has a strip chart that records the wind speed and direction. After completion of monitoring, the strip chart is reviewed by RES office staff to determine the average and maximum wind speeds during the monitoring and the average wind direction during each grid and ensure that the wind speed requirements are met (no gusts greater than 20 mph, average wind speed cannot exceed 10 mph). These values are documented in the field data sheets. The strip chart data is scanned and included in Attachment D.

## **Precipitation Requirements**

Per the GRDC's ACO, the initial monitoring event was carefully scheduled so that it could be conducted in compliance with the precipitation requirements (no measurable precipitation within 24 hours). Re-monitoring events are required to adhere to strict timelines. Any conflicts with precipitation requirements are discussed in the results section of this document.

## **EQUIPMENT CALIBRATION**

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25 ppm<sub>v</sub> in air for integrated sample analyses and 500 ppm<sub>v</sub> in air for instantaneous monitoring to comply with the requirements.

All analyzers were calibrated prior to use with required response time and precision related instrument checks. Calibration records include the following: One time response time test record; One time response factor determination for methane; Calibration Precision test records (test to be performed every 3 months); and Daily Instrument Calibration and Background test records for each gas meter that was used during the quarterly monitoring event. The calibration log records are included in Attachment E.

All monitoring was completed in accordance with the applicable regulatory requirements or approved alternatives. If you have any questions regarding this report, please do not hesitate to contact me at rphadnis@wm.com.

Thank you,  
Waste Management



Rajan Phadnis  
Environmental Protection Specialist

## **Attachment A – Instantaneous Surface Emission Monitoring Event Records**

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

## **Attachment B – Integrated Surface Emission Monitoring Event Records**

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

## **Attachment C – Component Leak Monitoring Event Records**

Ms. Becky Azevedo

April 7, 2022

Page 7

- Component Leak Exceedances and Monitoring Logs

**Attachment D – Weather Station Data**

- Strip Chart Data

**Attachment E – Calibration Records**

- Instrument and Gas Calibration Records

**Attachment A**

Instantaneous Surface Emission Monitoring Event Records

**Table A.1**  
**Instantaneous Landfill Surface Emissions Monitoring**  
**Initial Monitoring Event Areas of Concern**

**2022 QUARTER:** 1  
**PERFORMED BY:** RES  
**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments
31	36	2/9/2022	1,300	185
32	67	2/9/2022	1,700	SUMP-2
21	43	2/9/2022	3,000	235
11	30	2/9/2022	500	237

**Notes:** Please refer to field data sheets for details





**Table A.3**  
**Instantaneous Landfill Surface Emissions Monitoring**  
**Exceedance and Monitoring Logs (AB-32)**

2022 QUARTER: 1

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: WM-Tino Robles

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments
Exceedance	Monitoring	Field	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Grid ID No.	Date	Reading	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
36	2/9/2022	1,300	2/10/2022	52					185
67	2/9/2022	1,700	2/10/2022	37					SUMP-2
43	2/9/2022	3,000	2/10/2022	12					235
30	2/9/2022	500	2/10/2022	7					237

**Table A.4**  
**Instantaneous Landfill Surface Emissions Monitoring**  
**Areas of Concern Greater than 200 ppmv**

**2022 QUARTER:** 1

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			Re-mon Event		Comments
Exceedance	Monitoring	Field	Monitoring	Reading	
Grid ID No.	Date	Reading	Date	ppm	
None					

## GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: L BISHWADT CELVIN ORTIZ  
RICK LEMOS NICK BANKS  
DWIGHT ANDERSON Cal. Gas Exp. Date: 6-9-22

Date: 2-9-22 Instrument Used: AVA1000 Grid Spacing: 25'

Temperature: 47 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LV	0600	0615	31	0	0	2	
2	RL	0600	0615	26	0	0	2	
3	DB	0600	0615	20	0	0	2	
4	CO	0600	0615	26	0	0	2	
5	NB	0600	0615	39	0	0	2	
6	LV	0615	0630	19	0	0	4	
7	RL	0615	0630	51	0	0	4	
8	DB	0615	0630	49	0	0	4	
9	CO	0615	0630	34	0	0	4	
10	NB	0615	0630	31	0	0	4	
11	LV	0630	0645	18	1	2	2	
12	RL	0630	0645	31	1	2	2	
13	DB	0630	0645	47	1	2	2	
15	CO	0630	0645	45	1	2	2	
16	NB	0630	0645	35	1	2	2	
18	LV	0645	0700	47	2	2	2	
19	RL	0645	0700	11	2	2	2	
20	DB	0645	0700	55	2	2	2	
21	CO	0645	0700	40	2	2	2	
24	NB	0645	0700	26	2	2	2	
25	LV	0700	0715	34	3	3	1	
26	RL	0700	0715	107	3	3	1	
29	DB	0700	0715	48	3	3	1	
30	CO	0700	0715	500	3	3	1	CC237
31	NB	0700	0715	41	3	3	1	
35	LV	0715	0730	14	3	3	16	
36	RL	0715	0730	1300	3	3	16	W&P/1.85
37	DB	0715	0730	46	3	3	16	
41	CO	0715	0730	16	3	3	16	
42	NB	0715	0730	28	3	3	16	

Attach Calibration Sheet  
 Attach site map showing grid ID

## GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leishwood Colvin Ortiz  
R. CICERO NICIBANKJ  
Dwight Anderson Cal. Gas Exp. Date: 6-9-22

Date: 2-9-22 Instrument Used: LVA 1000 Grid Spacing: 25'

Temperature: 56 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
43	LW	0730	0745	3,000	0	0	15	W 51/235
47	RL	0730	0745	29	0	0	15	
48	DA	0730	0745	40	0	0	15	
49	CO	0730	0745	87	0	0	15	
50	ND	0730	0745	67	0	0	15	
54	LW	0745	0810	35	1	1	14	
55	RL	0745	0800	86	1	1	14	
59	DA	0745	0800	37	1	1	14	
60	CO	0745	0800	110	1	1	14	
61	ND	0745	0800	35	1	1	14	
64	LW	0800	0815	58	1	1	14	
65	RL	0800	0815	38	1	1	14	
66	DA	0800	0815	28	1	1	14	
67	CO	0800	0815	1700	1	1	14	54 mg/l
69	NB	0800	0815	31	1	1	14	
70	LW	0815	0830	45	0	0	12	
71	RL	0815	0830	18	0	0	12	
72	DA	0815	0830	26	0	0	12	
73	CO	0815	0830	29	0	0	12	
74	NB	0815	0830	55	0	0	12	
75	LW	0830	0845	41	0	1	12	
77	RL	0830	0845	112	0	1	12	
78	DA	0830	0845	35	0	1	12	
79	CO	0830	0845	32	0	1	12	
80	NB	0830	0845	92	0	1	12	
82	LW	0845	0910	39	2	2	15	
83	RL	0845	0900	21	2	2	15	
86	DA	0845	0900	57	2	2	15	
87	CO	0845	0900	25	2	2	15	
90	NB	0845	0900	46	2	2	15	

Attach Calibration Sheet  
 Attach site map showing grid ID

# GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LESLIE WAHON Calvin Ortiz  
NICK LEROUX NICK DANIELS  
Rwight ANDERSON Cal. Gas Exp. Date: 6-9-22

Date: 2-9-22 Instrument Used: FVA 1000 Grid Spacing: 25'

Temperature: 62 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
91	LW	0910	0915	21	2	3	12	
92	DA	0900	0915	18	2	3	12	
95	RL	0900	0915	45	2	3	12	
99	CO	0900	0915	28	2	3	12	
100	NP	0900	0915	20	2	3	12	
101	LW	0915	0930	35	2	4	12	
102	DA	0915	0930	14	2	4	12	
103	RL	0915	0930	11	2	4	12	
104	CO	0915	0930	16	2	4	12	
105	NP	0915	0930	27	2	4	12	

Attach Calibration Sheet  
 Attach site map showing grid ID

## GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHMAN \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Cal. Gas Exp. Date: \_\_\_\_\_

Date: 2-9-22 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

Temperature: \_\_\_\_\_ Precip: \_\_\_\_\_ Upwind BG: \_\_\_\_\_ Downwind BG: \_\_\_\_\_

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
76								Active - 2/9/22
84								↓
85								
88								
89								
93								
94								
96								
97								
98								
81								
14								steep slope
17								↓
22								
27								
32								
38								
44								
51								
56								
23								now active - 2/9/22
28								↓
33								
34								
39								
40								
45								
48								
52								
53								

Attach Calibration Sheet  
 Attach site map showing grid ID

## GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Loughwaor \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Cal. Gas Exp. Date: \_\_\_\_\_

Date: 2-9-22 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

Temperature: \_\_\_\_\_ Precip: \_\_\_\_\_ Upwind BG: \_\_\_\_\_ Downwind BG: \_\_\_\_\_

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
57								↓
58								
62								
63								
68								

Attach Calibration Sheet  
 Attach site map showing grid ID



GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
1		Riser-1				1	2-9-27	31	
2		Riser-2				3		2.0	
3	39270	H-12L	Leachate Riser or Sump (LR)	37.2175051	-121.9013879	4		2.0	LCRS NORTH
4	46004	EW-179	LFG Collector - Standard	37.2172819	-121.8987819	6		19	
5	49173	LC-196	LFG Collector - Standard	37.217485	-121.8971917	7		51	
6		Riser-3				7		2.0	
7	51829	EW-198	LFG Collector - Standard	37.217173	-121.8988572	9		18	
8	51833	EW-202	LFG Collector - Standard	37.2171697	-121.8994333	9		33	
9	45884	EW-176	LFG Collector - Standard	37.2171275	-121.896709	10		2.6	
10	45883	EW-177	LFG Collector - Standard	37.217047	-121.8974175	10		2.0	
11	60097	LC-232	LFG Collector - Standard	37.2171237	-121.8970001	10		81	WAS 2019 PW6
12	60098	LC-233	LFG Collector - Standard	37.2172233	-121.8972595	10		27	WAS 2019 PW7
13	23223	EW-82	LFG Collector - Standard	37.216757	-121.9015677	11		18	
14	54149	EW-214	LFG Collector - Standard	37.2168516	-121.8997801	12		37	
15	54149	EW-214	LFG Collector - Standard	37.2168516	-121.8997801	12		31	
16	38188	EW-122	LFG Collector - Standard	37.2167213	-121.8989765	13		42	
17	45881	EW-178	LFG Collector - Standard	37.2170005	-121.8981799	13		2.0	
18	51830	EW-199	LFG Collector - Standard	37.216939	-121.8985607	13		1.6	
19	54142	EW-207	LFG Collector - Standard	37.2167973	-121.8984098	13		2.5	
20	54142	EW-207	LFG Collector - Standard	37.2167973	-121.8984098	13		32	
21	51831	EW-200	LFG Collector - Standard	37.2165278	-121.8982343	14		16	<del>Actual</del> steep slope
22	39762	EW-161	LFG Collector - Standard	37.2163602	-121.899993	15		4.5	
23	39753	EW-152	LFG Collector - Standard	37.2170233	-121.897694	16		18	
24	49230	EW-180	LFG Collector - Standard	37.2164993	-121.899249	16		35	
25	54143	EW-208	LFG Collector - Standard	37.2166558	-121.8986408	16		41	
26	54144	EW-209	LFG Collector - Standard	37.2166911	-121.898995	16		2.2	
27	54143	EW-208	LFG Collector - Standard	37.2166558	-121.8986408	16		11	
28	54144	EW-209	LFG Collector - Standard	37.2166911	-121.898995	16		2.5	
29	49165	LC-188	LFG Collector - Standard	37.2165115	-121.8979523	16		17	
30	39748	EW-147	LFG Collector - Standard	37.2163282	-121.8974612	17		2.6	
31	54139	EW-204	LFG Collector - Standard	37.2164842	-121.8974352	17		14	<del>Actual</del> steep slope
32	23222	EW-81	LFG Collector - Standard	37.2164003	-121.9016828	19		11	<del>Actual</del> steep slope
33	39766	EW-146	LFG Collector - Standard	37.2161893	-121.8996248	20		5.5	
34	39763	EW-162	LFG Collector - Standard	37.2162872	-121.9004384	20		1.7	
35	39752	EW-151	LFG Collector - Standard	37.216596	-121.8976265	21		2.6	
36	45882	EW-181	LFG Collector - Standard	37.2163757	-121.8981417	21		0.5	
37	54146	EW-211	LFG Collector - Standard	37.2164085	-121.899347	21		4.0	
38	54146	EW-211	LFG Collector - Standard	37.2164085	-121.899347	21		2.2	
39	54148	EW-213	LFG Collector - Standard	37.2157313	-121.9000587	25		0.4	
40	54148	EW-213	LFG Collector - Standard	37.2157313	-121.9000587	25		1.6	
41	54140	EW-205	LFG Collector - Standard	37.2159232	-121.8985607	26		1.05	
42	49166	LC-189	LFG Collector - Standard	37.2159743	-121.8981168	26		4.5	
43	60101	LC-236	LFG Collector - Standard	37.2159606	-121.8993035	26		2.2	WAS 2019 PW1A

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
44	60102	LC-237	LFG Collector - Standard	37.2155189	-121.9004241	30	2-9-22	500	WAS 2019 PW2
45	51832	EW-201	LFG Collector - Standard	37.2158282	-121.8977395	31		47	
46	54151	EW-216	LFG Collector - Standard	37.2157522	-121.8988583	31		17	
47	54151	EW-216	LFG Collector - Standard	37.2157522	-121.8988583	31		2.2	
48	49167	LC-190	LFG Collector - Standard	37.2158131	-121.8986935	31		75	
49	60099	LC-234	LFG Collector - Standard	37.2158817	-121.8978367	31		16	WAS 2019 PW3
50		Riser-4				32		12	stop slope
51	31994	EW-114	LFG Collector - Standard	37.2156196	-121.9010846	35		14	
52	39755	EW-154	LFG Collector - Standard	37.2155737	-121.8997444	36		54	
53	46005	EW-185	LFG Collector - Standard	37.2153905	-121.9003022	36		1300	
54	49231	EW-186	LFG Collector - Standard	37.2154869	-121.8998067	36		21	
55	38190	EW-124	LFG Collector - Standard	37.2153568	-121.8985882	37		46	
56	54150	EW-215	LFG Collector - Standard	37.215772	-121.899337	37		77	
57	54150	EW-215	LFG Collector - Standard	37.215772	-121.899337	37		18	
58	49168	LC-191	LFG Collector - Standard	37.2152815	-121.8987616	37		26	
59	51834	EW-203	LFG Collector - Standard	37.2148903	-121.8973953	38		27	stop slope
60	39269	H-11L	Leachate Riser or Sump (LR)	37.2152234	-121.9024543	41		16	LCRS SOUTH
61	49170	LC-193	LFG Collector - Standard	37.2152829	-121.8997004	42		28	
62	48202	EW-183	LFG Collector - Standard	37.2151482	-121.897999	43		17	
63	54152	EW-217	LFG Collector - Standard	37.2151787	-121.8990435	43		45	
64	54152	EW-217	LFG Collector - Standard	37.2151787	-121.8990435	43		30	
65	60100	LC-235	LFG Collector - Standard	37.2151227	-121.8982697	43		3000	WAS 2019 PW15
66		Riser-5				44		18	stop slope
67	54153	EW-218	LFG Collector - Standard	37.2148855	-121.8989922	50		67	
68	54153	EW-218	LFG Collector - Standard	37.2148855	-121.8989922	50		24	
69	48203	EW-184	LFG Collector - Standard	37.2147669	-121.8977769	55		31	
70	46006	EW-187	LFG Collector - Standard	37.2144877	-121.89889	55		86	
71	49169	LC-192	LFG Collector - Standard	37.2147005	-121.8985396	55		24	
72	42102	EW-173	LFG Collector - Standard	37.2145096	-121.8994779	59		32	
73	38195	EW-129	LFG Collector - Standard	37.2086995	-121.8522755	60		35	
74	54154	EW-219	LFG Collector - Standard	37.2142966	-121.898854	60		110	
75	54155	EW-220	LFG Collector - Standard	37.2145068	-121.8985888	60		22	
76	54154	EW-219	LFG Collector - Standard	37.2142966	-121.898854	60		18	
77	54155	EW-220	LFG Collector - Standard	37.2145068	-121.8985888	60		35	
78	60109	LC-244	LFG Collector - Standard	37.2148416	-121.8974755	61		35	WAS 2019 PW4
79		CS-1	Condensate Sump or Drain (CS)	37.2141842	-121.8986237	62		110	now at 100 ft
80		CS-2	Condensate Sump or Drain (CS)	37.2148416	-121.8974755	62			62.067 33
81		CS-3	Condensate Sump or Drain (CS)	37.2152234	-121.9024543	62		86	
82	54156	EW-221	LFG Collector - Standard	37.2141303	-121.8990035	65		34	
83	54156	EW-221	LFG Collector - Standard	37.2141303	-121.8990035	65		22	
84	60106	LC-241	LFG Collector - Standard	37.214152	-121.8981348	65		30	WAS 2019 PW10
85	60108	LC-243	LFG Collector - Standard	37.2141842	-121.8986237	65		12	WAS 2019 PW8
86	54161	EW-226	LFG Collector - Standard	37.2139737	-121.8975753	66		28	

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021










No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
87	54161	EW-226	LFG Collector - Standard	37.2139737	-121.8975753	66	2-9-22	24	
88	60103	LC-238	LFG Collector - Standard	37.2142127	-121.8969996	66		18	WAS 2019 PW11
89		Riser-6				67		1700	5amp 2
90	42101	EW-172	LFG Collector - Standard	37.21412	-121.8996291	69		31	
91	60105	LC-240	LFG Collector - Standard	37.2138042	-121.8978297	70		40	WAS 2019 PW13
92	49174	LC-197	LFG Collector - Standard	37.2138179	-121.8967375	71		18	
93	38197	EW-131	LFG Collector - Standard	37.2136797	-121.8993258	75		26	
94	60107	LC-242	LFG Collector - Standard	37.2138288	-121.8983188	75		41	WAS 2019 PW14
95	38201	EW-135	LFG Collector - Standard	37.2136061	-121.897305	76			Active points
96	60104	LC-239	LFG Collector - Standard	37.2134243	-121.897615	76			WAS 2019 PW239 Active points
97	54159	EW-224	LFG Collector - Standard	37.2132002	-121.8974548	81			Active points
98	54163	EW-228	LFG Collector - Standard	37.2132484	-121.8969069	81			Active points
99	54159	EW-224	LFG Collector - Standard	37.2132002	-121.8974548	81			Active points
100	54158	EW-223	LFG Collector - Standard	37.2129712	-121.8977091	84			Active points
101	54158	EW-223	LFG Collector - Standard	37.2129712	-121.8977091	84			Active points
102	54163	EW-228	LFG Collector - Standard	37.2132484	-121.8969069	85			Active points
103	54157	EW-222	LFG Collector - Standard	37.2127377	-121.8981113	88			Active points
104	54165	EW-230	LFG Collector - Standard	37.2126277	-121.8980338	88			Active points
105	54157	EW-222	LFG Collector - Standard	37.2127377	-121.8981113	88			
106	54165	EW-230	LFG Collector - Standard	37.2126277	-121.8980338	88			
107	38200	EW-134	LFG Collector - Standard	37.2129335	-121.8970899	89			
108	54162	EW-227	LFG Collector - Standard	37.2129485	-121.8961233	89			
109	54162	EW-227	LFG Collector - Standard	37.2129485	-121.8961233	89			
110	23240	EW-112	LFG Collector - Standard	37.2127553	-121.8949208	90		45	
111	54160	EW-225	LFG Collector - Standard	37.2126679	-121.8956942	90		16	
112	54160	EW-225	LFG Collector - Standard	37.2126679	-121.8956942	90		22	
113	23214	EW-65	LFG Collector - Standard	37.2123487	-121.896153	94			Active points
114	23215	EW-66	LFG Collector - Standard	37.2119331	-121.8960039	98			Active points
115	23211	EW-62	LFG Collector - Standard	37.2119254	-121.8968871	100		20	
116	38208	EW-142	LFG Collector - Standard	37.2118093	-121.8963646	102		14	
117	38204	EW-138	LFG Collector - Standard	37.2118108	-121.8959464	103		11	

### Orange Flag Landfill Surface Emissions Monitoring Exceedances and Monitoring Log

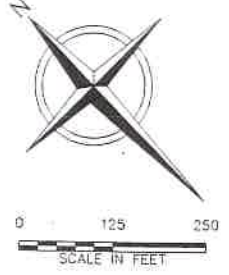
Site: Burdette

Quarter / Year: <u>1st 2022</u>								Page		of		Pages		
Technician: <u>LEIGH W. NOBLE</u>														
Instrument: <u>AU41000</u>														
Calibration Standard: <u>500 PPM</u>														
Flag Number	Grid Number	Initial Monitoring Event			First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			
		Field Reading (ppm)	Date Monitored	Date	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
0-31	36	1300	2-8-22											
0-32	62	1700	↓											
0-21	43	3100	↓											
0-11	30	500	↓											
0-														
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**LEGEND**

-  PROPERTY BOUNDARY
-  APPROXIMATE WASTE FOOTPRINT
-  EXISTING 10' CONTOUR
-  EXISTING LPG EXTRACTION WELL
-  EXISTING REMOTE WELLHEAD
-  EXISTING PROBE
-  EXISTING HORIZONTAL COLLECTOR WELLHEAD
-  EXISTING LOCAL CONTROL WELL
-  SEM GRID BLOCK






105

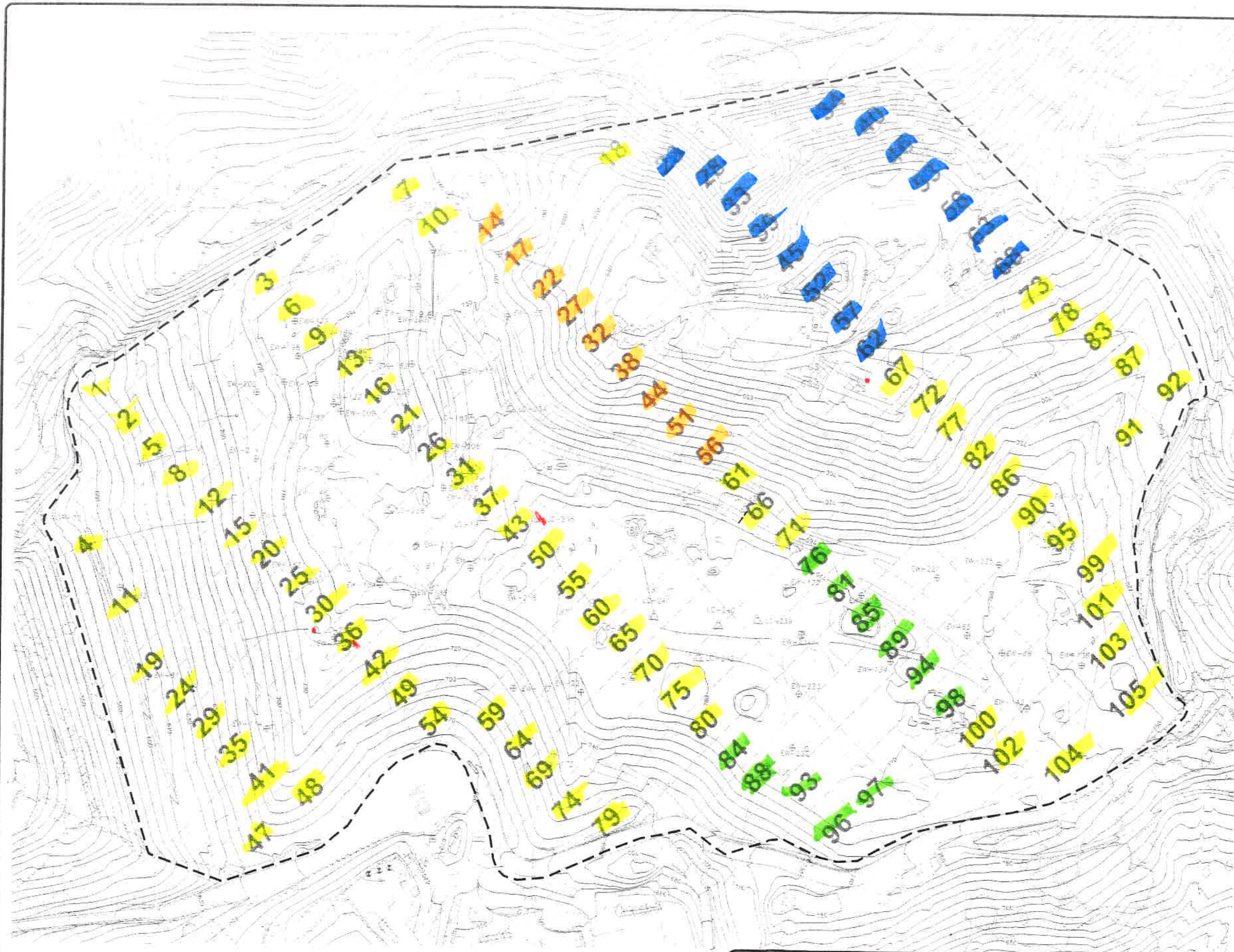


**NOTES:**

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 9, 2020.
6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

*Instantaneous 2-9-22*

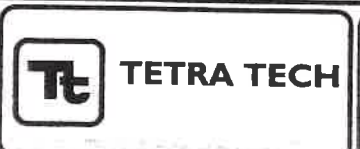
-  GRIDS MONITORED
-  ACTIVE FLOWS
-  STEEP SLOPES
-  NO WASTE IMPL/SLB
-  SOOT PPM



FINAL AS-BUILT



REV	DATE	DESCRIPTION	CHK BY	APP BY
1	2/2020			



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
 2020 GCCS IMPROVEMENTS  
**SEM GRID MAP**

SHEET NO  
**3**  
 PROJECT NO  
 2020-26

2020 AC-BIB11 (URBAN) Project Drawings/2020126-DRAWINGS\_2020 AC-BIB11 FINAL UPDATE\_Rev 12\_2020 - 10.23pm

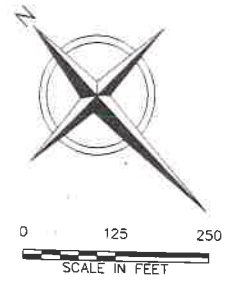
2020 4-28-2021 10:45:00 AM Project: D:\maps\2020\10-16-2020\10-16-2020.dwg Layout: 53 User: CHELSA.VAN DER...  
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**LEGEND**

- PROPERTY BOUNDARY
- - - - - APPROXIMATE WASTE FOOTPRINT
- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING REMOTE WELLHEAD
- EXISTING PROBE
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LOCAL CONTROL WELL

105 SEM GRID BLOCK



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
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  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

*NSPS perimeter survey  
1st quarter 2022*

● upwind  
● downwind



REV	DATE	DESCRIPTION	OWN	DES	CHK	APP



**FINAL AS-BUILT**

GUADALUPE RECYCLING AND DISPOSAL FACILITY  
SAN JOSE, CALIFORNIA  
2020 GCCS IMPROVEMENTS

SHEET NO  
**3**  
PROJECT NO  
202020

SEM GRID MAP

**Attachment B**

Integrated Surface Emission Monitoring Event Records

**Table B.1  
Integrated Landfill Surface Monitoring  
Exceedances and Monitoring Log**

**2022 QUARTER:** 1

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			Comments
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	
None						



# GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: L. EISHWART Calvin Ortiz  
D. ILLIENOS  
OWISL ANDERSON Cal. Gas Exp. Date: 6-9-22

Date: 2-8-22 Instrument Used: FVA1000 Grid Spacing: 25

Temperature: 62 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	W	1300	1325	4.79	0	1	6	
2	PL	1300	1325	5.60	0	1	6	
3	DA	1300	1325	5.38	0	1	6	
4	CO	1300	1325	4.17	0	1	6	
5	NB	1310	1325	6.12	0	1	6	
6	W	1325	1350	5.79	2	3	6	
7	PL	1325	1350	6.87	2	3	6	
8	DA	1325	1350	7.22	2	3	6	
9	CO	1325	1350	6.54	2	3	6	
10	NB	1325	1350	6.97	2	3	6	
11	W	1350	1415	4.55	3	5	6	
12	PL	1350	1415	5.82	3	5	6	
13	DA	1350	1415	8.65	3	5	6	
15	CO	1350	1415	6.72	3	5	6	
16	NB	1350	1415	6.58	3	5	6	
18	W	1415	1440	7.34	3	5	6	
19	PL	1415	1440	4.21	3	5	6	
20	DA	1415	1440	7.45	3	5	6	
21	CO	1415	1440	6.37	3	5	6	
24	NB	1415	1440	5.84	3	5	6	

Attach Calibration Sheet  
 Attach site map showing grid ID

# GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leighann \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Cal. Gas Exp. Date: \_\_\_\_\_

Date: 2-8-22 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

Temperature: \_\_\_\_\_ Precip: \_\_\_\_\_ Upwind BG: \_\_\_\_\_ Downwind BG: \_\_\_\_\_

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS	
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT		
76								Active-trash	
81								↓	
84									
85									
88									
89									
93									
94									
96									
97									
98									
14								steepslopes	
17								↓	
22									
27									
32									
38									
44									
51									
56									
23									nowasteimpdew
28									↓
33									
34									
39									
40									
45									
46									
52									
53									

Attach Calibration Sheet  
 Attach site map showing grid ID

# GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHMANOV \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Cal. Gas Exp. Date: \_\_\_\_\_

Date: 2-8-22 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

Temperature: \_\_\_\_\_ Precip: \_\_\_\_\_ Upwind BG: \_\_\_\_\_ Downwind BG: \_\_\_\_\_

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
57								↓
58								
62								
63								
68								

Attach Calibration Sheet  
 Attach site map showing grid ID

## GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Wright Richard DNIGHT ANDERSON Richard NICK BANIS  
 Cal. Gas Exp. Date: 6-9-22

Date: 2-9-22 Instrument Used: VA1000 Grid Spacing: 251

Temperature: 69 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
25	W	0940	1005	6.87	1	2	14	
26	RL	0940	1005	5.32	1	2	14	
29	DA	0940	1005	6.70	1	2	14	
30	CO	0940	1005	8.51	1	2	14	
31	NO	0940	1005	6.35	1	2	14	
35	W	1005	1030	7.22	0	1	12	
36	RL	1005	1030	6.77	0	1	12	
37	DA	1005	1030	5.50	0	1	12	
41	CO	1005	1030	5.10	0	1	12	
42	NO	1005	1030	5.98	0	1	12	
43	W	1030	1055	6.13	3	4	16	
47	RL	1030	1055	6.42	3	4	16	
48	DA	1030	1055	5.90	3	4	16	
49	CO	1030	1055	5.88	3	4	16	
50	NB	1030	1055	6.13	3	4	16	
54	W	1055	1120	6.27	3	4	1	
53	RL	1055	1120	5.40	3	4	1	
59	DA	1055	1120	7.22	3	4	1	
60	CO	1055	1120	6.39	3	4	1	
61	NO	1055	1120	5.27	3	4	1	
64	W	1120	1145	5.71	4	6	4	
65	RL	1120	1145	5.79	4	6	4	
66	DA	1120	1145	7.13	4	6	4	
67	CO	1120	1145	6.94	4	6	4	
69	NB	1120	1145	6.20	4	6	4	
70	W	1145	1210	5.49	5	7	5	
71	RL	1145	1210	7.36	5	7	5	
72	DA	1145	1210	6.85	5	7	5	
73	CO	1145	1210	6.38	5	7	5	
74	NO	1145	1210	5.99	5	7	5	

Attach Calibration Sheet  
 Attach site map showing grid ID

# GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LOISHWART Dwight Anderson  
RULLIEN MILLER  
CALVIN ORTEGA Cal. Gas Exp. Date: 6-9-22

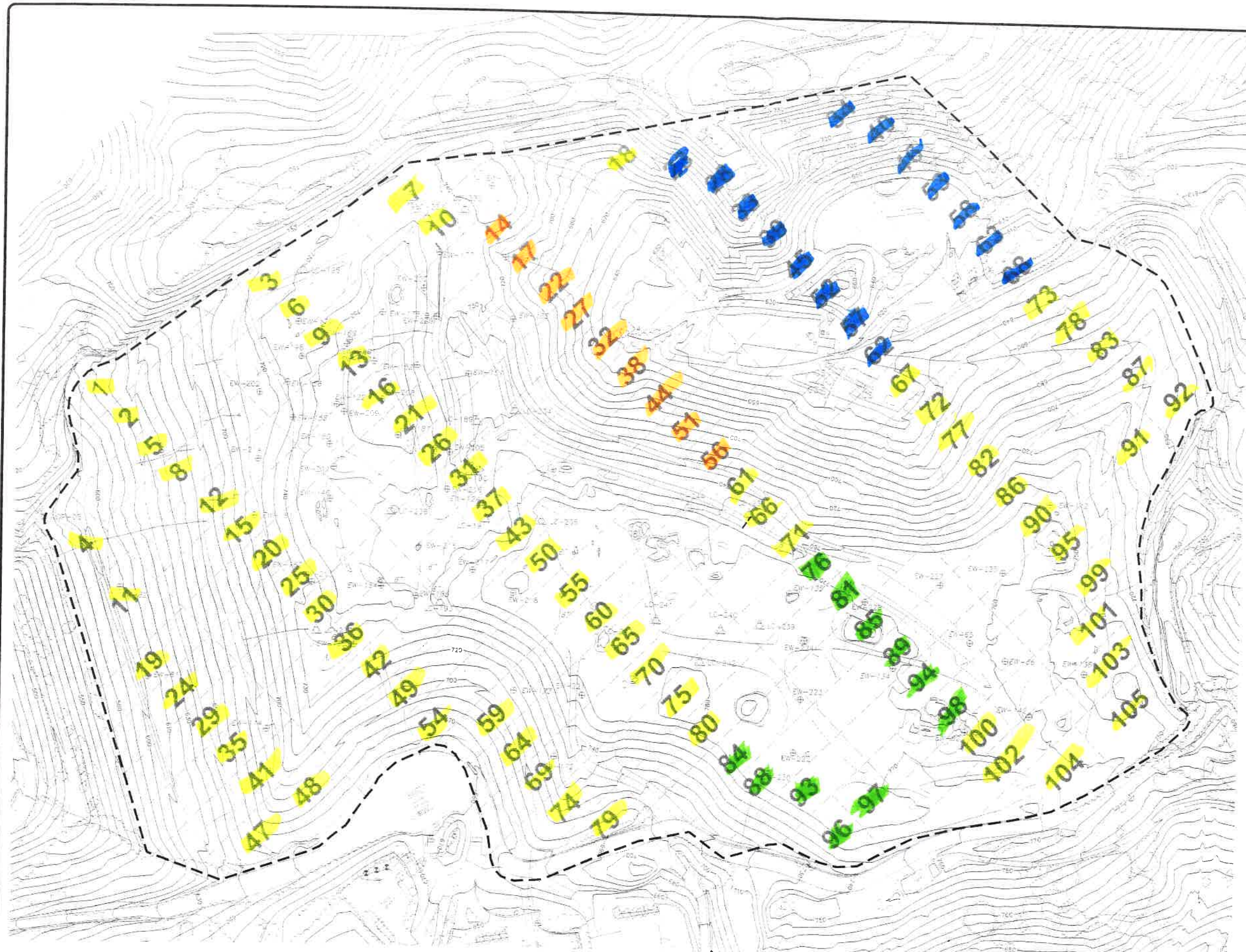
Date: 7-9-22 Instrument Used: VA1000 Grid Spacing: 251

Temperature: 74 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.6

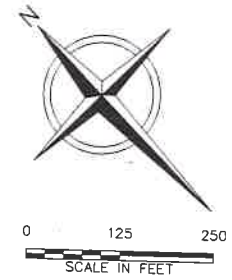
GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
75	W	1210	1235	8.51	6	8	5	
77	RL	1210	1235	6.31	6	6	5	
78	DA	1210	1235	6.40	6	8	5	
79	CO	1210	1235	8.35	6	6	5	
80	ND	1210	1235	7.92	6	6	5	
82	LW	1235	1300	6.11	6	6	4	
83	RL	1235	1300	6.41	6	8	4	
86	DA	1235	1300	5.50	6	6	4	
87	CO	1235	1300	5.39	6	6	4	
90	ND	1235	1300	8.65	6	6	4	
91	LW	1300	1325	7.22	7	9	4	
92	RL	1300	1325	6.40	7	9	4	
95	DA	1300	1325	5.29	7	9	4	
99	CO	1300	1325	6.12	7	9	4	
100	ND	1300	1325	6.55	7	9	4	
101	LW	1325	1350	5.36	6	7	1	
102	RL	1325	1350	5.10	6	7	1	
103	DA	1325	1350	5.97	6	7	1	
104	CO	1325	1350	6.03	6	7	1	
105	ND	1325	1350	5.49	6	7	1	

Attach Calibration Sheet  
Attach site map showing grid ID

D:\Projects\2020\2020\_GCCS\2020\_GCCS\_Map\2020\_GCCS\_Map.dwg User: GHELSAYMAN, No. 12, 2020 - 10:30am



- LEGEND**
- PROPERTY BOUNDARY
  - APPROXIMATE WASTE FOOTPRINT
  - EXISTING 10' CONTOUR
  - EXISTING LFG EXTRACTION WELL
  - EXISTING REMOTE WELLHEAD
  - EXISTING PROBE
  - EXISTING HORIZONTAL COLLECTOR WELLHEAD
  - EXISTING LOCAL CONTROL WELL
  - 105 SEM GRID BLOCK



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEK, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
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  3. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2019.
  4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
  5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

*Integrated 2-8-22  
2-9-22*

- GRIDS MONITORED
- ACTIVE TRENCH
- STEEP SLOPES
- NO WASTE IMPLCE



REV	DATE	DESCRIPTION	CHK BY	DES BY	CHK BY	APP BY
DATE OF ISSUE		DRAWN BY	CVP	CHECKED BY	AMN	
1/15/2020		DESIGNED BY	DEF	APPROVED BY	F.S.	



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
SAN JOSE, CALIFORNIA  
2020 GCCS IMPROVEMENTS

SEM GRID MAP

FINAL AS-BUILT

SHEET NO  
**3**

PROJECT NO  
200126

**Attachment C**

Component Leak Monitoring Event Records

**Table C.1**  
**AB-32 Component Leak Monitoring**  
**Summary of Component Leaks Greater than 500 ppmv**

**2022 QUARTER:** 1

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
<b>Flare Station A-9</b>	2/9/2022	ND	RES	NA	NA	NA	NA	NA
<b>Flare Station A-14</b>	2/9/2022	ND	RES	NA	NA	NA	NA	NA

ND= Non Exceedances



**Table C.2**  
**BAAQMD Component Leak Monitoring**  
**Summary of Component Leaks Greater than 1,000 ppmv**

2022 QUARTER: 1

INITIAL MONITORING PERFORMED BY: RES

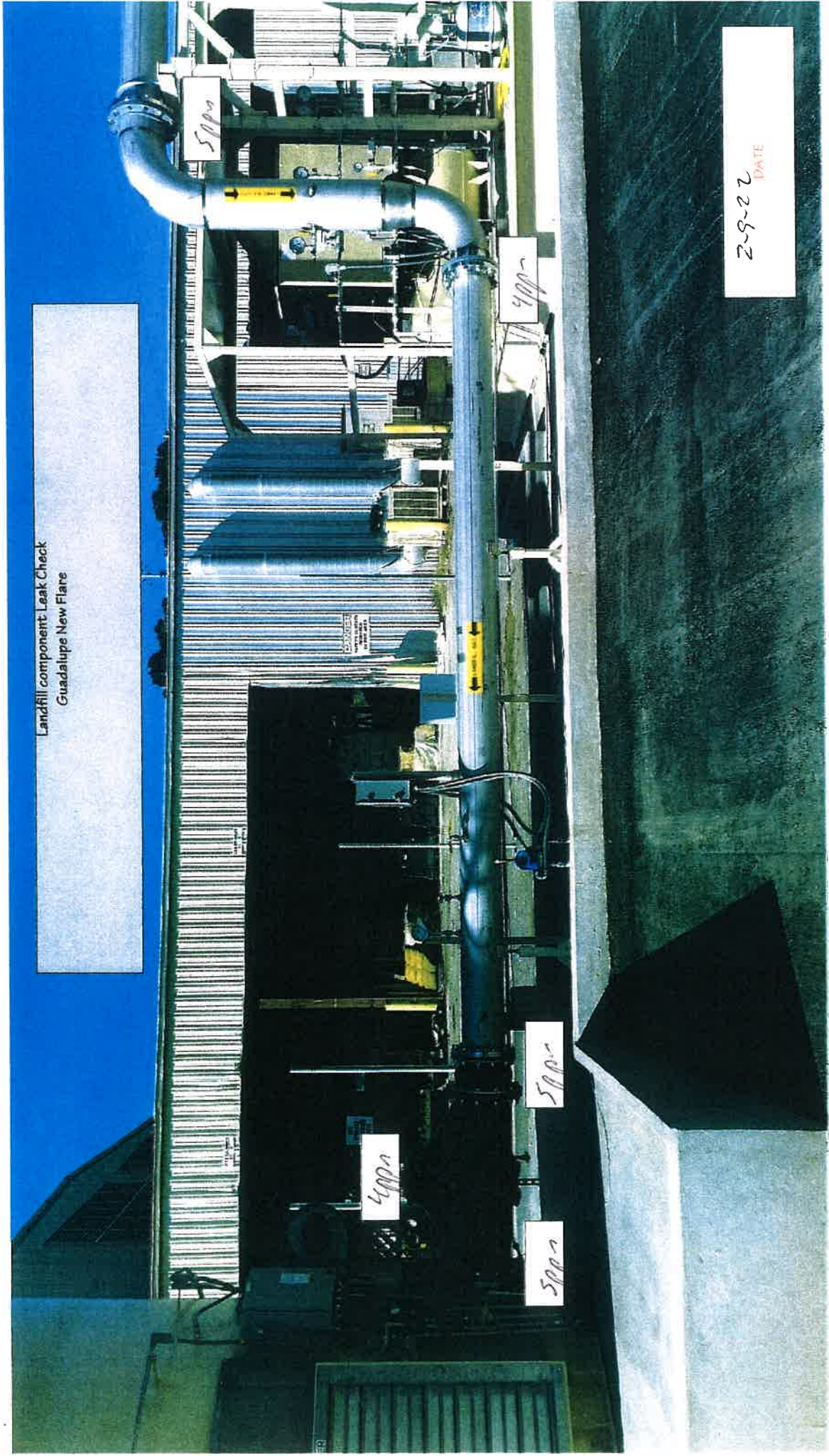
FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
<b>Flare Station A-9</b>	2/9/2022	ND	RES	NA	NA	NA	NA	NA
<b>Flare Station A-14</b>	2/9/2022	ND	RES	NA	NA	NA	NA	NA

ND= Non Exceedances

Landfill component Leak Check  
Guadalupe New Flare



500~

400~

500~

400~

500~

2-9-22  
DATE

Landfill component Leak Check  
Guadalupe New Flare

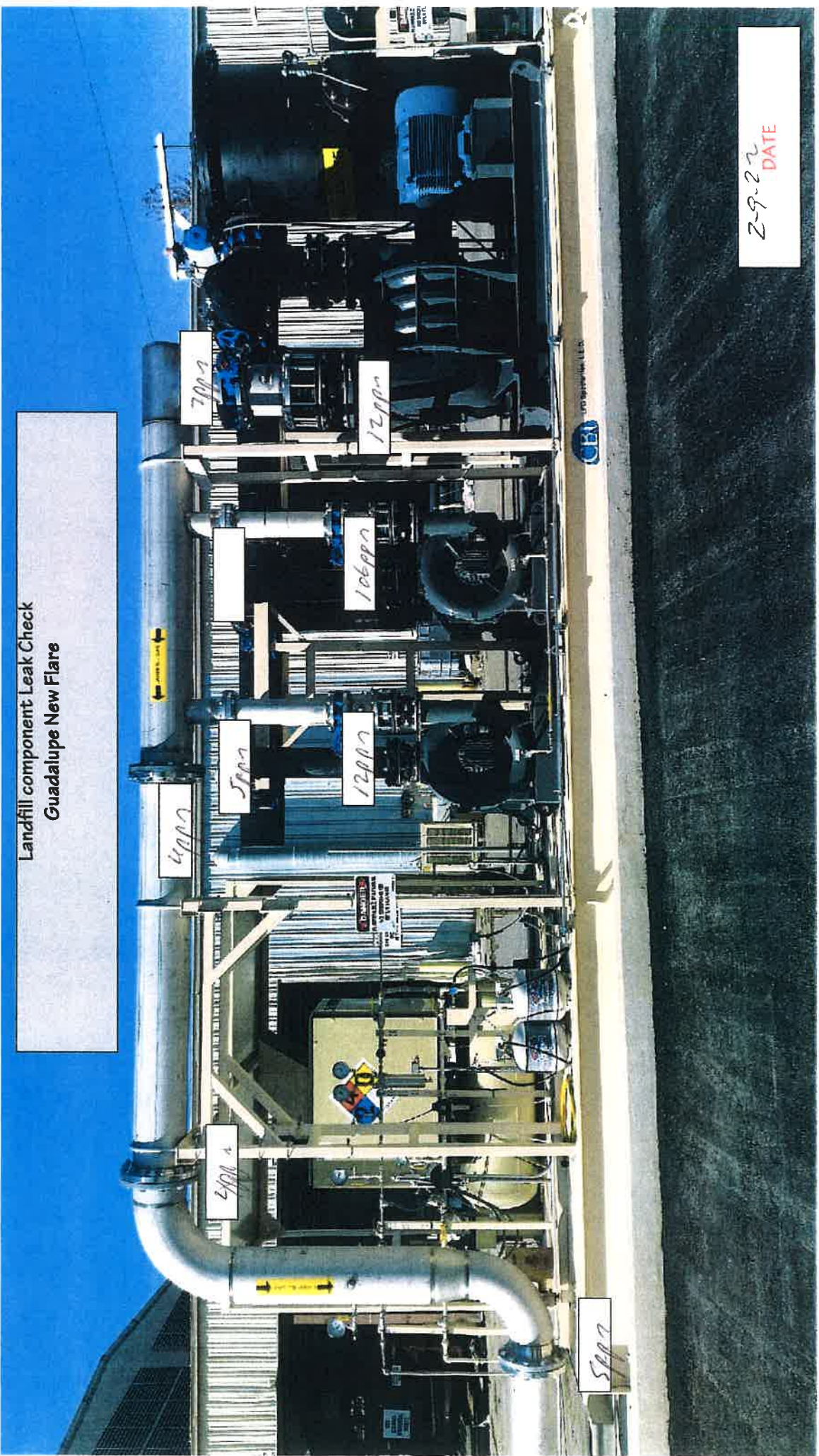


4900

3007

2-9-22  
DATE

Landfill component Leak Check  
Guadalupe New Flare



2-9-22  
DATE

Landfill component Leak Check  
Guadalupe



4902

3907

2-9-22  
DATE

Landfill component Leak Check  
Guadalupe

5997

4997

4997

2-9-20  
DATE



Landfill component Leak Check  
Guadalupe

300 ~

400 ~

400 ~

500 ~

600 ~

22-6-2



**LANDFILL NAME:** *Gas Delap & Co*  
**QUARTERLY LFG COMPONENT LEAK MONITORING**

INSTRUMENT          FID  
 MAKE: Thermo Environr  
 MODEL: TVA 1000  
 SN: *1036346773*

DATE OF SAMPLING: *2-9-22*  
 TECHNICIAN: *LEISHWADE*

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
<i>155X66Dewicks</i>							

In the event that an exceedance is detected, please initiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

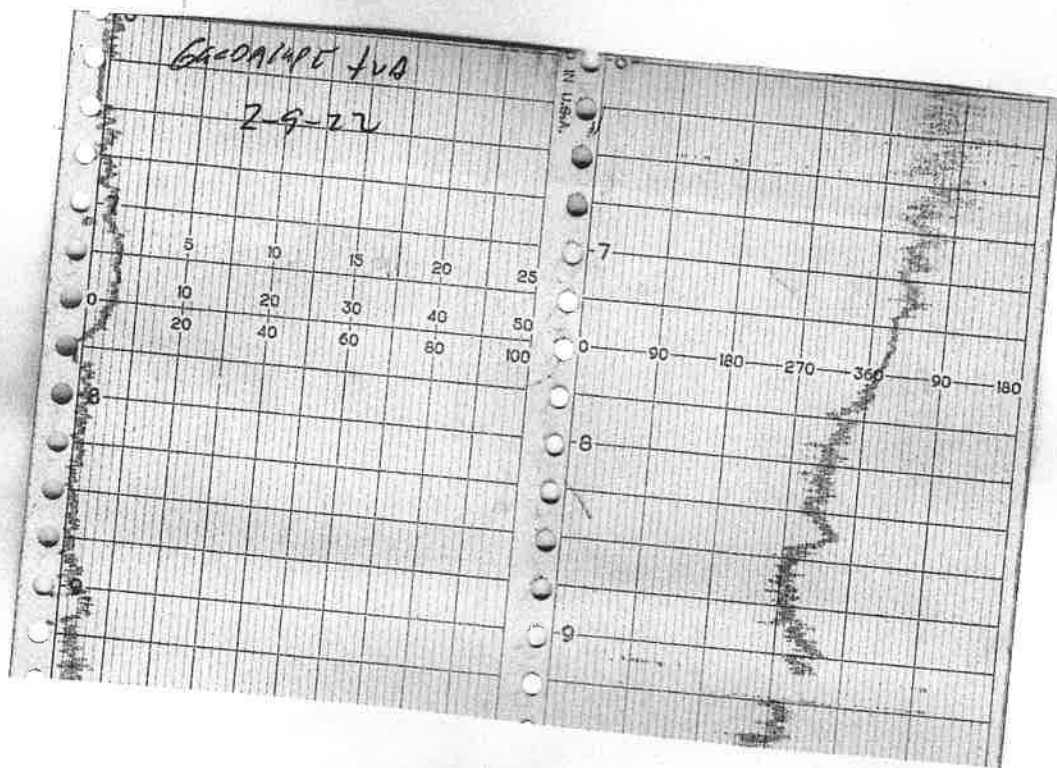
NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).

NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.

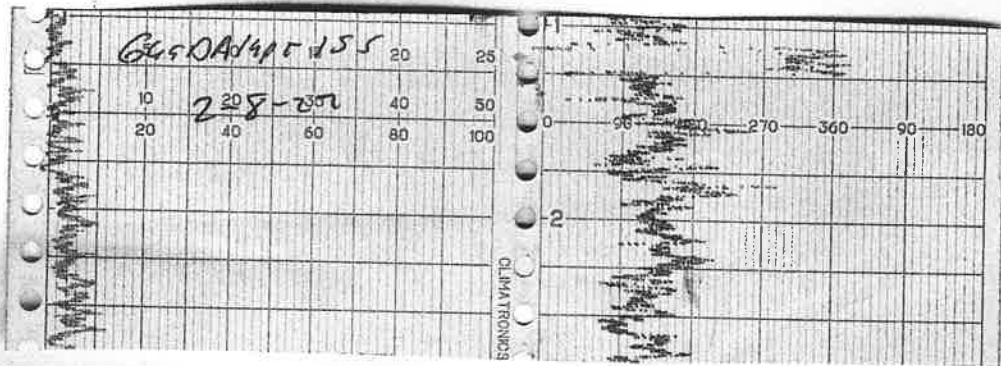


**Attachment D**  
Weather Station Data

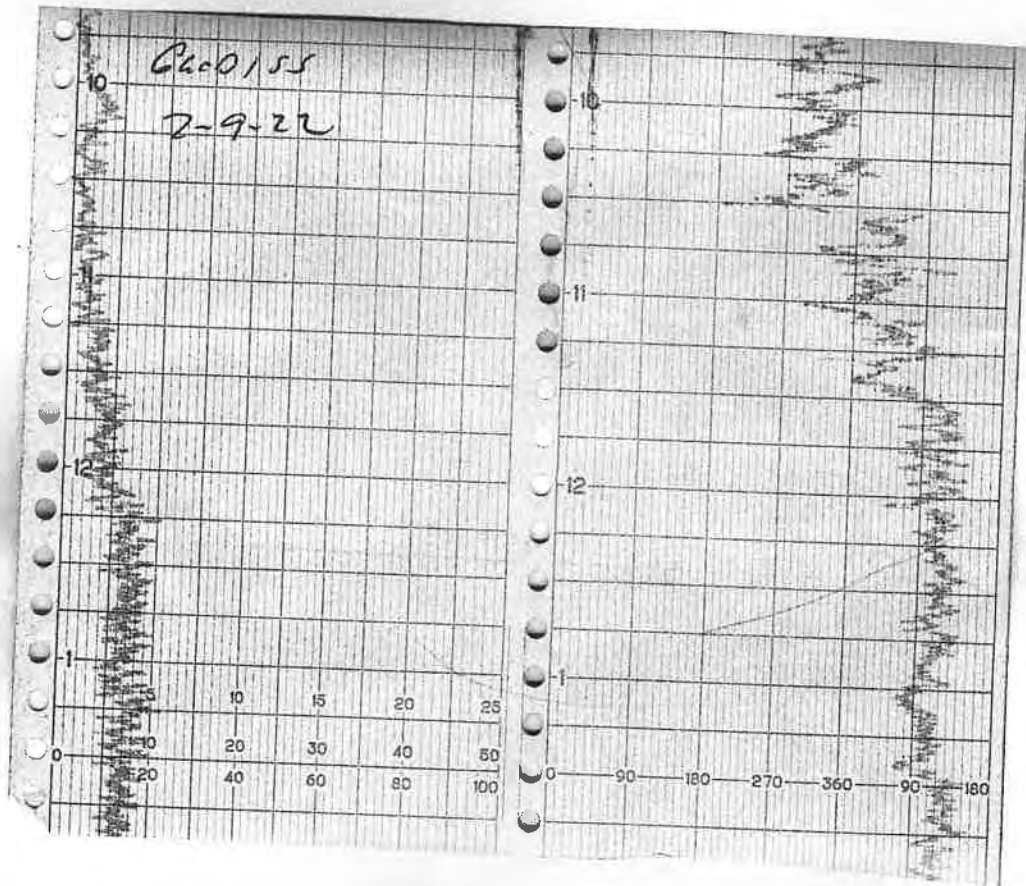
# WIND SPEED & DIRECTION CHART ROLL



# WIND SPEED & DIRECTION CHART ROLL



# WIND SPEED & DIRECTION CHART ROLL





16-POINT WIND DIRECTION INDEX

<u>NO</u>	<u>DIRECTION</u>	<u>DEGREES</u>		
		<u>FROM</u>	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>369.0</u>	0.0
1	NORTH-NORTHEAST (NNE)	011.3	<u>022.5</u>	033.8
2	NORTHEAST (NE)	033.8	<u>045.0</u>	056.3
3	EAST-NORTHEAST (ENE)	056.3	<u>067.5</u>	078.8
4	EAST (E)	078.8	<u>090.0</u>	101.3
5	EAST-SOUTHEAST (ESE)	101.3	<u>112.5</u>	123.8
6	SOUTHEAST (SE)	123.8	<u>135.0</u>	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	<u>180.0</u>	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
10	SOUTHWEST (SW)	213.8	<u>225.0</u>	236.3
11	WEST-SOUTHWEST (WSW)	236.3	<u>247.5</u>	258.8
12	WEST (W)	258.8	<u>270.0</u>	281.3
13	WEST-NORTHWEST (WNW)	281.3	<u>292.5</u>	303.8
14	NORTHWEST (NW)	303.8	<u>315.0</u>	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337.5</u>	348.8

**Attachment E**  
Calibration Records

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Good Hope INSTRUMENT MAKE Hanna  
 MODEL: LVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773  
 MONITORING DATE: 2-9-22 TIME 0555

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>490</u> ppm	<u>440</u> ppm	<u>5</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.12</u> ppm	<u>490</u> ppm	<u>10</u>
#2	<u>0.10</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.08</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.68</u> #DIV/0! Must be less than 10%

Performed By: L. Shwade Date/Time: 2-9-22 0555

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME Gladstone INSTRUMENT MAKE HERND  
 MODEL LUA 1000 EQUIPMENT #: 11 SERIAL #: 1036246774  
 MONITORING DATE 2-9-22 TIME: 0555

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>496</u> ppm	<u>446</u> ppm	<u>5</u>
#2	<u>504</u> ppm	<u>454</u> ppm	<u>5</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.16</u> ppm	<u>496</u> ppm	<u>4</u>
#2	<u>0.12</u> ppm	<u>504</u> ppm	<u>4</u>
#3	<u>0.08</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.53</u> #DIV/0! Must be less than 10%

Performed By Rick Thomas Date/Time 2-9-22 0555



**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME Goodslip INSTRUMENT MAKE Thermo  
 MODEL VA100D EQUIPMENT #: 12 SERIAL #: 103624674/  
 MONITORING DATE: 2-9-22 TIME 0555

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>506</u> ppm	<u>456</u> ppm	<u>4</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>4</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.20</u> ppm	<u>506</u> ppm	<u>6</u>
#2	<u>0.14</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.06</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.40</u> #DIV/0! Must be less than 10%

Performed By: DWIGHT ANDERSON Date/Time: 2-9-22 0555

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME 6609/148 INSTRUMENT MAKE: HEM  
 MODEL VA1000 EQUIPMENT #: 13 SERIAL #: 110274672  
 MONITORING DATE: 2-9-22 TIME 0555

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>498</u> ppm	<u>448</u> ppm	<u>5</u>
#2	<u>502</u> ppm	<u>452</u> ppm	<u>5</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.11</u> ppm	<u>498</u> ppm	<u>2</u>
#2	<u>0.07</u> ppm	<u>502</u> ppm	<u>2</u>
#3	<u>0.05</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.26</u> #DIV/0! Must be less than 10%

Performed By: C9UVIV ONTIZ Date/Time: 2-9-22-0555

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME 600094pr INSTRUMENT MAKE: FHorn  
 MODEL: 4VA1000 EQUIPMENT #: 16 SERIAL #: 1102746776  
 MONITORING DATE: 2-9-22 TIME: 0555

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.09</u> ppm	<u>500</u> ppm	<u>7</u>
#2	<u>0.07</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.46</u> #DIV/0! Must be less than 10%

Performed By: W.C.C. BANKS Date/Time: 2-9-22-0555

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME 666091405 INSTRUMENT MAKE: Hann  
 MODEL FA1000 EQUIPMENT #: 10 SERIAL # 1036346773  
 MONITORING DATE 2-8-22 TIME 1300

**Calibration Procedure:**

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe Stabilized reading = 25 ppm
- 3 Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.12</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By LEISHVOOR Date/Time 2-8-22 01300

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME 6605412 INSTRUMENT MAKE Hann  
 MODEL VIA100 EQUIPMENT #: 11 SERIAL # 1036346774  
 MONITORING DATE: 2-8-22 TIME 1300

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.14</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.11</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.06</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By RICK LEAD Date/Time 2-8-22 1300

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME G6054p~ INSTRUMENT MAKE Hann  
 MODEL LVA1000 EQUIPMENT #: 12 SERIAL # 1636246741  
 MONITORING DATE 2-8-22 TIME 1300

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.09</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.07</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By DWIGHT ANDERSON Date/Time 2-8-22-1300

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME 6409 Super INSTRUMENT MAKE: Hera  
 MODEL VIA 1000 EQUIPMENT #: 13 SERIAL # 1162746775  
 MONITORING DATE: 2-8-22 TIME 1300

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.16</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.12</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By Calvin Ortiz Date/Time 2-8-22-1300

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME: 64004400 INSTRUMENT MAKE: THORN  
 MODEL: WA 1000 EQUIPMENT #: 15 SERIAL # 1036346772  
 MONITORING DATE: 2-8-22 TIME 1300

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.13</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.11</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.28</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By NICK DANES Date/Time 2-8-22 - 1300



**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME 66054pr INSTRUMENT MAKE Hann  
 MODEL: VA100D EQUIPMENT #: 10 SERIAL # 1636346773  
 MONITORING DATE: 2-9-22 TIME: 0935

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.14</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.12</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By L. B. Howard Date/Time 2-9-22 0935

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME Geoplyr INSTRUMENT MAKE Hanna  
 MODEL FVA 1000 EQUIPMENT #: 11 SERIAL # 1636346774  
 MONITORING DATE: 2-9-22 TIME 0935

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>25</u> ppm	<u>20.7</u> ppm	<u>4</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.10</u> ppm	<u>25</u> ppm	<u>2</u>
#2	<u>0.07</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>4.0</u> #DIV/0! Must be less than 10%

Performed By RICK/EMMS Date/Time 2-9-22-0935

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Gasolupr INSTRUMENT MAKE: Fluor  
 MODEL FA1020 EQUIPMENT #: 12 SERIAL # 103624674/  
 MONITORING DATE: 2-9-22 TIME 0930

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.13</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.4</u> #DIV/0! Must be less than 10%

Performed By Dwight ANDERSON Date/Time 2-9-22 - 0935

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME Goodslip INSTRUMENT MAKE HAERAN  
 MODEL: HA 1010 EQUIPMENT #: 13 SERIAL # 1102746775  
 MONITORING DATE: 2-9-22 TIME 0935

**Calibration Procedure:**

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.17</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.12</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By Colvin ORZU Date/Time 2-9-22-0935

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Good Hope INSTRUMENT MAKE Horan  
 MODEL LVA 1000 EQUIPMENT # 16 SERIAL # 1112746776  
 MONITORING DATE 7-9-22 TIME 0935

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.6</u> ppm	<u>2.3</u> ppm

Background Value = 2.3 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.13</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By NICOLE BANKS Date/Time 7-9-22-0935

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 2-10-22  
Time: 1030 AM \_\_\_\_\_ PM  
Instrument Make: TJA 100B Model: Thermal S/N: 0928538 C111

## Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.  
Stable Reading = 503 ppm
3. Adjust meter to read 500 ppm.

## Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 1 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{1.5} \text{ ppm}$$

Performed By: Bobles

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby

Date: 3/2/22

Time: 030 AM \_\_\_\_\_ PM

Instrument Make: TVA 600B

Model: THERMAL

S/N: 0928538411

## Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.  
Stable Reading = 499 ppm
3. Adjust meter to read 500 ppm.

## Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 1 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{1.5} \text{ ppm}$$

Performed By: R. J. S.

# CALIBRATION PRECISION TEST RECORD

Date: 12-14-21

Expiration Date (3 months): 3/14/22

Time: 030 AM \_\_\_\_\_ PM

Instrument Make: TVA 1000B Model: Thermal S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 505 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 499 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 505 ppm (f)

Calculate Precision:

$$\frac{\{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|\}}{3} \times \frac{1}{500} \times 100$$

\_\_\_\_\_ % (must be < than 10%)

Performed By: Polles



# RESPONSE TIME TEST RECORD

Date: 12-14-21

Expiration Date (3 months): 3-14-22

Time: 030 AM \_\_\_\_\_ PM

Instrument Make: TVA 1000B Model: Thermal S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm  
90% of the Stabilized Reading: 450 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 5 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 500 ppm  
90% of the Stabilized Reading: 450 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 6 seconds (b)

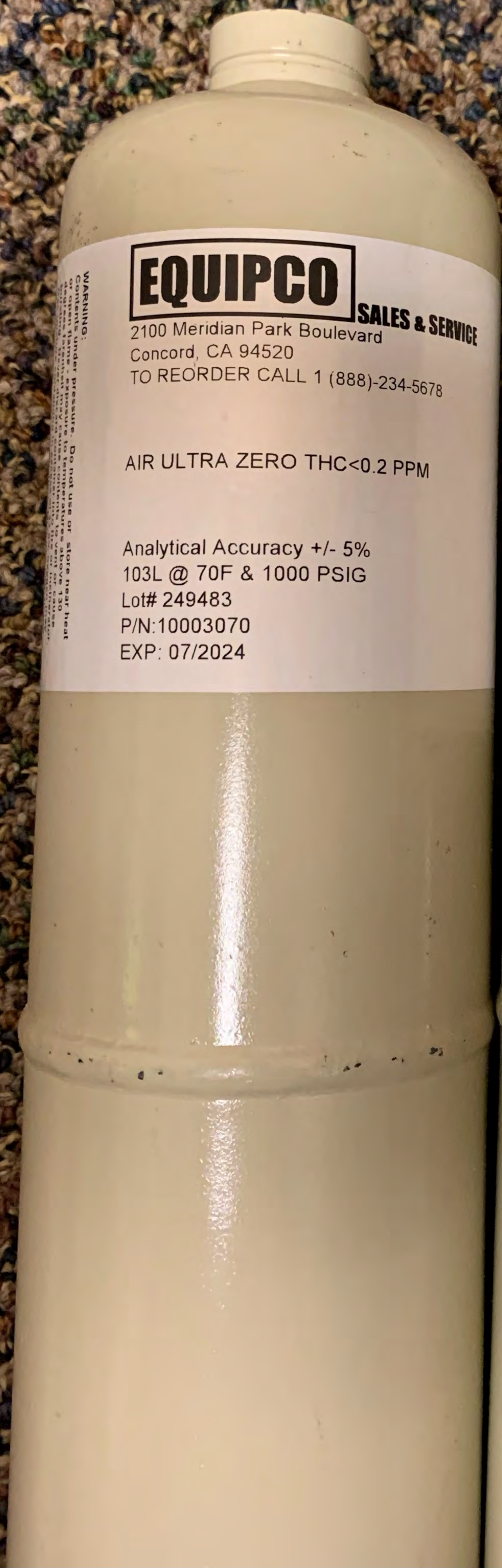
Measurement #3:

Stabilized Reading Using Calibration Gas: 498 ppm  
90% of the Stabilized Reading: 450 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 4 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \frac{5 + 6 + 4}{3} = \underline{5} \text{ seconds (must be less than 30 seconds)}$$

Performed By: [Signature]

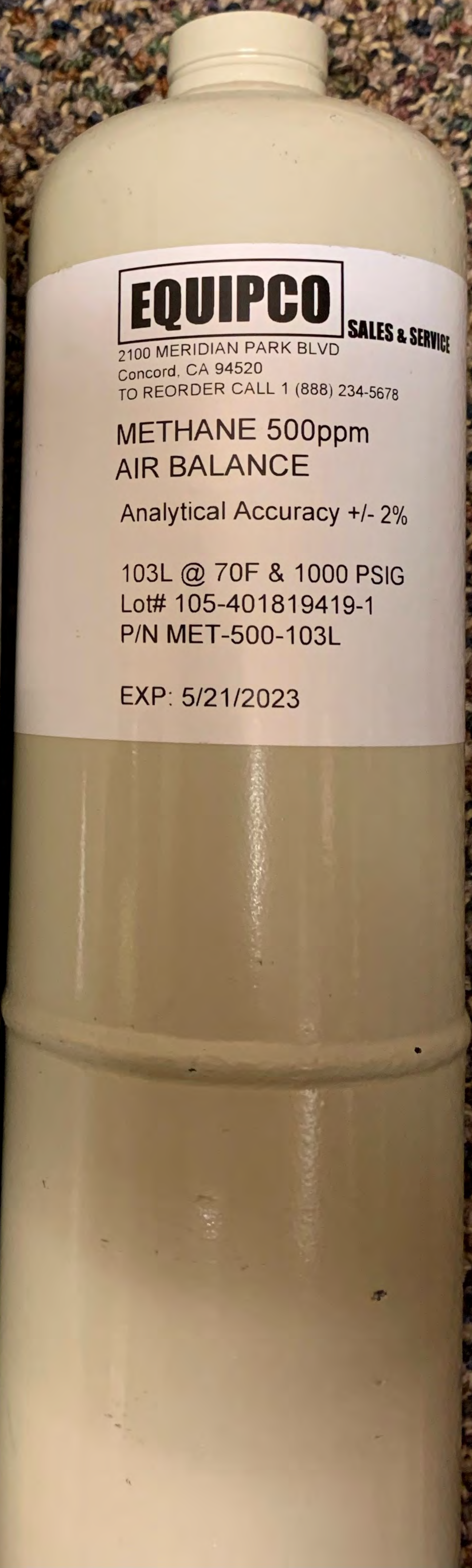


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AIR ULTRA ZERO THC<0.2 PPM

Analytical Accuracy +/- 5%  
 103L @ 70F & 1000 PSIG  
 Lot# 249483  
 P/N:10003070  
 EXP: 07/2024

WARNING:  
 Contents under pressure. Do not use or store near heat  
 or open flame. Release pressure to atmosphere before use.  
 Do not use for purposes not intended. Do not use for  
 medical or food grade purposes. Do not use for  
 industrial or laboratory purposes. Do not use for  
 any other purpose. Do not use for any other purpose.  
 Do not use for any other purpose. Do not use for  
 any other purpose. Do not use for any other purpose.



**EQUIPCO** SALES & SERVICE  
 2100 MERIDIAN PARK BLVD  
 Concord, CA 94520  
 TO REORDER CALL 1 (888) 234-5678

METHANE 500ppm  
 AIR BALANCE

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG  
 Lot# 105-401819419-1  
 P/N MET-500-103L

EXP: 5/21/2023



**EQUIPCO**

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Concord, CA 94520  
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METHANE 500ppm  
AIR BALANCE

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG  
Lot# K024306  
P/N MET-500-103L

EXP: 6/19/2022



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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Air - Zero		
THC	< 2 PPM	
Oxygen	20.9%	± 2%
Nitrogen	Balance	

<b>Lot #</b>	<b>19-6779</b>
--------------	----------------

Mfg. Date: 4/3/2019  
Parent Cylinder ID Number: 001739, 02268

**Method of Preparation:**  
Gravimetric/Pressure Transfilled

**Method of Analysis:**  
This mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart  
Quality Assurance Manager  
800-552-5003  
Certificate Date: 4/3/2019

Concentration (Mole%) Accuracy  
- 20.9% Oxygen  
- Bal. Nitrogen

Exp Date  
6/26/2023

100 PSIG and 1,000 PSIG

103 L

Avenue, Irvine, CA 92614  
Tel (949) 201-8150 Fax (949) 757-0363

CONTAINS GAS UNDER PRESSURE  
Read label before use and check  
cylinder pressure.  
Do not handle until all valves are closed.  
Use a back flow preventer when  
slowly closing valve after use.  
Data Sheet (DS) before use.  
Dispose of content and cylinder  
DO NOT REMOVE THE LABEL  
Federal law forbids returning  
this container to be reused.



103 L COA  
Lot# 19-6779



1503M-1102  
24/104  
ION  
BIBIDS



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## CERTIFICATE OF ANALYSIS

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### Composition

Methane

Air

### Certification

25 ppm

Balance

### Analytical Accuracy

± 5%

<b>Lot #</b>	<b>17-6074</b>
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Mfg. Date: 10/16/2017

Parent Cylinder ID  
Number: 17161

### **Method of Preparation:**

Gravimetric/Pressure Transfilled

### **Method of Analysis:**

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017

ProSupply Service INC.

Concentration (Mole%) Accuracy  
+/- 5%  
(CH<sub>4</sub>) - 25 ppm  
- Balance

Methane



CONTAINS GAS UNDER PRESSURE  
Read label before use. Do not use if label is torn.  
Do not handle until all safety instructions are read.  
Use a back flow preventer when connecting to equipment.  
Use slowly. Close valve after use.  
Dispose of content and cylinder according to local regulations.  
**DO NOT REMOVE THIS LABEL**  
Federal law prohibits resale of this product (49 CFR 171.15-171.16, 5124). Federal law prohibits...

Pressure: 3.67<sup>ps</sup> @ 70°F and 1,000 PSIG

Exp. Date  
7/10/2024

Lot#: 17-6074

P/N:23-0025

**103 L**

Kaiser Avenue, Irvine, CA 92614  
Tel: (949) 23-0025 or (800) 201-8150 Fax (949) 757-0363

103-23-0025  
Methane 25 ppm/  
Nitrogen 20.9% / Nitrogen

**103 L**

Lot #  
17-6074



2 of 2





# INTERMOUNTAIN SPECIALTY GASES

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## CERTIFICATE OF ANALYSIS

---

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
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Mfg. Date: 10/16/2017

Parent Cylinder ID 17161

Number:

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017

MicroSupply Service INC.

Concentration (Mole%) Accuracy  
Methane (CH<sub>4</sub>) - 25 ppm  
Balance +/- 5%

Methane



CONTAINS GAS  
Read label before use  
label at hand. Use  
Do not handle with  
protective gloves  
Use a back flow preventer  
slowly. Close valve when  
sunlight when not in  
use  
Dispose of compressed  
DO NOT REWIND  
Federal law (Title 49  
5124). Federal law

Contents: 3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
4/27/2025

Lot#: 17-6074

P/N: 23-0025

103 L

1 Kaiser Avenue, Irvine, CA 92614  
714-435-3333 or (800) 201-8150 Fax (949) 757-0363

103-23-0025  
Methane 25 ppm/  
Oxygen 20.9% / Nitrogen

103 L

Lot #  
17-6074



DOT-SP 11323 NRC 1100/1505M-1102  
TC-SU6495 NRC 76/104

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## CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

**Lot #** 20-7497  
**Mfg. Date:** 7/10/2020  
**Expiration Date:**  
**Transfill Date:** see cylinder  
**Parent Cylinder ID** TWC001763  
**Number:**

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

**Analysis By:** Tony Janquart  
**Title:** Quality Assurance Manager  
**Certificate Date:** 7/10/2020



**Concentration (Mole%) Accuracy**  
 +/- 2%  
 500 ppm  
 Balance

**Exp Date**  
 7/10/2024

70°F and 1,000 PSIG

**Lot#: 20-7497**

**P/N:23-0500**

**103 L**

Avenue, Irvine, CA 92614  
 (800) 201-8150 Fax (949) 757-0363

**Methane (0.000)**



**WAP**

**CONTAINS GAS UNDER PRESSURE**  
 Read label before use. Keep out of reach of children. Keep label at hand. Use equipment according to instructions.  
 Do not handle until all safety precautions are read and understood. Wear protective gloves, protective clothing.  
 Use a back flow preventive device. Release gas slowly. Close valve after each use and store in a cool, dry place, away from sunlight when ambient temperature is above 50°F.  
 Dispose of content and/or container in accordance with applicable regulations.  
**DO NOT REMOVE THIS PRODUCT LABEL**  
 Federal law forbids transportation in motor vehicles (49 CFR 173.301-173.302). Federal law prohibits selling for use in motor vehicles (49 CFR 173.301-173.302).

103-23-0500  
 Methane 500 ppm/  
 Nitrogen

**103 L**

**Lot #**  
 20-7497

**COA**



4 of 4



# INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	500 ppm	± 2%
Air	Balance	

<b>Lot #</b>	<b>19-6955</b>
--------------	----------------

Mfg. Date: 7/24/2019

Parent Cylinder ID 001763

Number:

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 7/24/2019



Concentration (Mole%) Accuracy  
500 ppm +/- 2%  
Balance

70°F and 1,000 PSIG

Exp Date  
11/7/2023

Lot#: 19-6955

P/N: 23-0500

**103 L**

Irvine, CA 92614  
201-8150 Fax (949) 757-0363

Methane (CH<sub>4</sub>)



CONTAINS GAS UNDER PRESSURE  
Read label before use. Keep label at hand. Use equipment  
Do not handle until all safety precautions are met.  
Use a back flow preventer and use slowly. Close valve after use. Do not use in sunlight when sunburn is a concern.  
Discard if contents are empty.  
**DO NOT REMOVE THIS PROTECTIVE LABEL**  
Federal law forbids transportation of this gas (49 CFR 171.15-171.16, 171.18, 171.20, 171.21, 171.22, 171.23, 171.24). Federal law prohibits refilling.

23-0500  
500 ppm/  
20.9% Nitrogen

**103 L**

COA



Lot #  
19-6955

4 of 5

DOT SP 11323 NRC 1100/1505M-1102  
TC-SU6495 NRC 76/104

**CAUTION**  
FEDERAL LAW FORBIDS  
TRANSPORTATION IF  
REFILLED-PENALTY UP  
TO \$500,000 FINE AND  
5 YEARS IMPRISONMENT

# Intermountain Specialty Gases

520 N. Kings Road  
Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



## CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

**Lot #** 18-6641

Mfg. Date: 12/18/2018

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID  
Number: 001763

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart  
Title: Quality Assurance Manager  
Certificate Date: 12/18/2018

Wino Supply Service INC

Concentration (Mole%) Accuracy

(CH<sub>4</sub>) - 500 ppm  
Balance

+/- 2%

3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
6/26/2023



103 L

1791 Kaiser Avenue, Irvine, CA 92614  
757-0353 or (800) 201-8150 Fax (949) 757-0363

500 ppm/  
Nitrogen

103 L

COA



Lot #  
18-6641

NRC 1100/1505M-1102  
NRC 76





**Guadalupe Rubbish  
Disposal Co., Inc.**  
P.O. Box 20957  
San Jose, CA 95160

December 27, 2021

Ms. Becky Azevedo  
Guadalupe Rubbish Disposal Co., Inc  
15999 Guadalupe Mines Road  
San Jose, CA 95120

**Re: Fourth Quarter 2021 Surface Emissions and Component Leak Monitoring Report  
for Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This monitoring report for “**Guadalupe Rubbish Disposal Co., Inc. (GRDC)**” contains the results of the Fourth Quarter 2021 Integrated and Instantaneous Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by Roberts Environmental Services, LLC. (RES). Re-monitoring of surface emissions and component leak monitoring was conducted by RES and/or Waste Management (WM) personnel.

**APPLICABLE REQUIREMENTS**

The monitoring discussed in this report was conducted in accordance with the following requirements:

**Surface Emission Monitoring (SEM)**

- New Source Performance Standard (NSPS), Title 40 of the Code of Federal Regulations (CFR) §60.755 (c) and (d), 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95460 to §95476, known as the Assembly Bill 32 (AB32) landfill methane rule (LMR).
- Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) and Section 607 (Landfill Surface Inspection Procedures).
- United States Environmental Protection Agency’s (USEPA) *Standards of Performance for Municipal Solid Waste Landfills*; 40 Code of Federal Regulations (CFR) Part 63, Subpart AAAA-National Emission Standards for Hazardous Air Pollutants (NESHAP).

## **Component Leak**

- BAAQMD Regulation 8, Rule 34, Section 301 (Landfill Gas Collection and Emission Control System Requirements) and Section 602 (Collection and Control System Leak Inspection procedures).
- California Code of Regulations (CCR) Title 17, Subchapter 10, Article 4, Subarticle 6, §95464, known as the AB32 LMR.

## **GRDC Plan and Alternative Compliance Measures**

An Alternative Compliance Option (ACO) Request was submitted to the California Air Resources Board (CARB) on May 16, 2011. After receipt of comments, this ACO was amended, restated, and submitted to BAAQMD on July 1, 2016. SEM and Component Leak monitoring was conducted per the methods outlined in the July 1, 2016 ACO.

## **PROCEDURES**

### **General**

The surface of the GRDC disposal area has been divided into one-hundred-and-five (105), approximately 50,000 square foot monitoring grids. Of these grids, eleven (11) currently have no waste in place. The entire landfill surface is monitored with the exception of active portions of the Landfill, slope areas, and as requested in the approved ACO, areas containing only asbestos-containing waste, inert waste and/or non-decomposable waste which are excluded for safety as allowed by CCR Title 17 §95466.

Field personnel walked the surface of the landfill following the walking pattern as depicted the 2011 GRDC AB-32 SEM Plan, which traverses each monitoring grid. Additionally, in accordance with the provisions of 40 CFR 60.753(d) and 60.755(c)(1-3), the entire perimeter of the landfill surface was monitored. During the event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any areas with unusual odors.

The monitoring probe was positioned 2 inches above the ground surface. While walking, the wand tip of the FID was held within 2 inches of the landfill surface while traversing the grid. Per the approved alternative request, the wand tip of the FID was held at 2 inches of vegetation in areas where the landfill surface is covered with low-lying vegetation such as grasses while traversing the grid.

### **Instantaneous Surface Emissions Monitoring**

The Instantaneous and Integrated SEM was conducted using flame ionization detectors (FID), calibrated to 500 parts per million by volume (ppm<sub>v</sub>) methane, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a) and NSPS. The FIDs were calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

RES personnel walked the surface of the landfill on a grid by grid basis with the wand tip held at 2 inches from the landfill surface. While sampling the grid; the technicians also checked any surface impoundments (wells or otherwise) for leaks. Technicians also checked any surface cracks, seeps, or other areas that show evidence of surface emissions (odors or distressed vegetation). Active and sloped areas excluded for safety were documented on field data sheets and maps.

All instantaneous surface monitoring was performed in accordance with the applicable requirements referenced in this report. Any detections of methane above 200 ppm<sub>v</sub> (areas of concern) or 500 ppm<sub>v</sub> (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Appendices of this report. Applicable corrective action and re-monitoring timelines are listed below:

- Corrective actions must be initiated within 5 days of the initial exceedance and re-monitoring shall be conducted within 10 days of the initial exceedance.
  - If the re-monitoring event shows the exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance.
  - If the 1-month re-monitoring event shows the location is still corrected, all re-monitoring requirements have been completed.
- If either the first 10-day or 1-month re-monitoring events show a second exceedance, additional corrective actions shall be completed and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, the location shall be re-monitored within 1 month of the initial exceedance. If the 1-month re-monitoring event shows the area is still corrected, monitoring requirements have been completed.
- If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

### **Integrated Surface Emissions Monitoring**

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm<sub>v</sub> for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 2 inches above the landfill surface. The Integrated monitoring procedures followed the requirements of CCR Title 17 §95471(c)(2).

Grids with results greater than 25 ppm<sub>v</sub> were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm<sub>v</sub> are subject to the following re-monitoring timeline:

- Re-monitoring shall be conducted within 10 days of the initial exceedance.

- If the 10-day re-monitoring event shows the exceedance is corrected, all re-monitoring requirements have been completed.
- If either the first 10-day re-monitoring event shows a second grid exceedance, additional corrective actions shall be completed and a second re-monitoring event shall be conducted within 10 days of the second exceedance.
- If the second 10-day re-monitoring event shows the second exceedance is corrected, all re-monitoring requirements have been completed.
- The second 10-day re-monitoring event shows a third grid exceedance, an additional well shall be installed within 120 days of the third exceedance.

### **Component Leak Monitoring Procedures**

WM personnel monitored the exposed LFG components under positive pressure (pipes, wellheads, valves, blowers, and other mechanical appurtenances) using a TVA 1000 calibrated to 500 ppm<sub>v</sub>. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm<sub>v</sub> per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) and 1,000 ppm<sub>v</sub> per requirements outlined in BAAQMD 8-34-303 were recorded. Applicable corrective action and re-monitoring timelines are listed below:

- Leaks between 500 and 999 ppm<sub>v</sub> must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm<sub>v</sub> must be corrected and re-monitored within 7 days of the initial exceedance.

### **FOURTH QUARTER 2021 SEM AND COMPONENT LEAK RESULTS**

The following is a summary of the SEM and component leak monitoring results completed for the Fourth Quarter 2021.

#### **Instantaneous Surface Emissions Monitoring Results**

The Instantaneous surface monitoring was performed on November 12, 2021, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

#### ***Initial Monitoring Event Exceedances of 500 ppm<sub>v</sub>***

There were 6 exceedances of 500 ppm<sub>v</sub> as methane detected on November 12, 2021. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (November 15, 2021).

### Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on November 19, 2021. All locations were observed at less than 500 ppm<sub>v</sub>.

### One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on December 6, 2021. All locations were observed at less than 500 ppm<sub>v</sub>.

### Readings between 200 ppm<sub>v</sub> and 499 ppm<sub>v</sub> (Initial and Re-monitored)

There were no readings between 200 ppm<sub>v</sub> and 499 ppm<sub>v</sub> as methane detected during the initial monitoring event. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm<sub>v</sub> but below 500 ppm<sub>v</sub> are required to be recorded.

## **Integrated Surface Emissions Monitoring Results**

The Integrated surface sampling (ISS) was performed on November 11 and 12, 2021, accordance with the ACO and requirements outlined in CCR Title 17 §95469.

### Initial Monitoring Event Exceedances of 25 ppm<sub>v</sub>

There were no grids with exceedances of 25 ppm<sub>v</sub> as methane detected during monitoring on November 11 and 12, 2021.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B, Integrated SEM 25 ppm<sub>v</sub> Exceedances and Monitoring Log, and SEM Map included in Attachment B, for details.

## **Component Leak Monitoring Results**

Component leak monitoring was conducted per the applicable requirements on November 12, 2021. No leaks greater than 500 ppm<sub>v</sub> were identified during this monitoring period. Please see Attachment C, for details.

## **WEATHER CONDITIONS**

### **Wind Speed Conductions during the Surface Emission Monitoring Events**

Wind speeds during initial monitoring were monitored using a portable weather station. The station has a strip chart that records the wind speed and direction. After completion of monitoring, the strip chart is reviewed by RES office staff to determine the average and maximum wind speeds during the monitoring and the average wind direction during each grid and ensure that the wind speed requirements are met (no gusts greater than 20 mph, average wind speed cannot exceed 10 mph). These values are documented in the field data sheets. The strip chart data is scanned and included in Attachment D.

## **Precipitation Requirements**

Per the GRDC's ACO, the initial monitoring event was carefully scheduled so that it could be conducted in compliance with the precipitation requirements (no measurable precipitation within 24 hours). Re-monitoring events are required to adhere to strict timelines. Any conflicts with precipitation requirements are discussed in the results section of this document.

## **EQUIPMENT CALIBRATION**

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25 ppm<sub>v</sub> in air for integrated sample analyses and 500 ppm<sub>v</sub> in air for instantaneous monitoring to comply with the requirements.

All analyzers were calibrated prior to use with required response time and precision related instrument checks. Calibration records include the following: One time response time test record; One time response factor determination for methane; Calibration Precision test records (test to be performed every 3 months); and Daily Instrument Calibration and Background test records for each gas meter that was used during the quarterly monitoring event. The calibration log records are included in Attachment E.

All monitoring was completed in accordance with the applicable regulatory requirements or approved alternatives. If you have any questions regarding this report, please do not hesitate to contact me at rphadnis@wm.com.

Thank you,  
Waste Management



Rajan Phadnis  
Environmental Protection Specialist

## **Attachment A – Instantaneous Surface Emission Monitoring Event Records**

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

## **Attachment B – Integrated Surface Emission Monitoring Event Records**

- Monitoring Logs and Exceedances
- Surface Monitoring Weather Data
- SEM Map

## **Attachment C – Component Leak Monitoring Event Records**

Ms. Becky Azevedo

December 27, 2021

Page 7

- Component Leak Exceedances and Monitoring Logs

**Attachment D – Weather Station Data**

- Strip Chart Data

**Attachment E – Calibration Records**

- Instrument and Gas Calibration Records

**Attachment A**

Instantaneous Surface Emission Monitoring Event Records



**Instantaneous Landfill Surface Emissions Monitoring  
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)**

**2021 QUARTER: Q4**

**INITIAL MONITORING PERFORMED BY: RES**

**FOLLOW-UP MONITORING PERFORMED BY: Tino**

**LANDFILL NAME: GRDF**

**Wind Direction: NE**

**Wind Speed: 3**

**Wind Direction: NW**

**Wind Speed: 5**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
1	11/12/2021	510	11/15/2021	Fully Open/No BECS	11/19/2021	15		12/6/2021	4		Well SV1
2	11/12/2021	600	11/15/2021	BECS fully open	11/19/2021	15		12/6/2021	6		Well 176
21	11/12/2021	1,500	11/15/2021	BECS fully open	11/19/2021	4		12/6/2021	3		Well 207
11	11/12/2021	500	11/15/2021	BECS fully open	11/19/2021	4		12/6/2021	2		Well 199
12	11/12/2021	19,432	11/15/2021	BECS fully open	11/19/2021	12		12/6/2021	8		Well 185
13	11/12/2021	1,500	11/15/2021	BECS fully open	11/19/2021	90		12/6/2021	24		Well 112

**Table A.1**  
**Instantaneous Landfill Surface Emissions Monitoring**  
**Initial Monitoring Event Areas of Concern**

**2021 QUARTER:** 4

**PERFORMED BY:** RES

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments
1	1	11/12/2021	510	Well SVE1
2	10	11/12/2021	600	Well 176
21	13	11/12/2021	1,500	Well 207
11	13	11/12/2021	500	Well 199
12	36	11/12/2021	19,432	Well 185
13	90	11/12/2021	1,500	Well 112

**Notes:** Please refer to field data sheets for details

**Table A.2  
Instantaneous Landfill Surface Emissions Monitoring  
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)**

**2021 QUARTER:** 4

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** WM-Tino Robles

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag	Monitoring	Field	Repair	Action taken to repair	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Number	Date	Reading	Date	Exceedance	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
1	11/12/2021	510	11/15/2021	Fully Open/No BECS	11/19/2021	15.00		12/6/2021	4.00		Well SVE1
2	11/12/2021	600	11/15/2021	BECS fully open	11/19/2021	15.00		12/6/2021	6.00		Well 176
21	11/12/2021	1,500	11/15/2021	BECS fully open	11/19/2021	4.00		12/6/2021	3.00		Well 207
11	11/12/2021	500	11/15/2021	BECS fully open	11/19/2021	4.00		12/6/2021	2.00		Well 199
12	11/12/2021	19,432	11/15/2021	BECS fully open	11/19/2021	12.00		12/6/2021	8.00		Well 185
13	11/12/2021	1,500	11/15/2021	BECS fully open	11/19/2021	90.00		12/6/2021	24.00		Well 112

**Table A.3**  
**Instantaneous Landfill Surface Emissions Monitoring**  
**Exceedance and Monitoring Logs (AB-32)**

**2021 QUARTER:** 4  
**INITIAL MONITORING PERFORMED BY:** RES  
**FOLLOW-UP MONITORING PERFORMED BY:** WM-Tino Robles  
**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments
Exceedance	Monitoring	Field	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Grid ID No.	Date	Reading	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
1	11/12/2021	510	11/19/2021	15.00					Well SVE1
10	11/12/2021	600	11/19/2021	15.00					Well 176
13	11/12/2021	1,500	11/19/2021	4.00					Well 207
13	11/12/2021	500	11/19/2021	4.00					Well 199
36	11/12/2021	19,432	11/19/2021	12.00					Well 185
90	11/12/2021	1,500	11/19/2021	90.00					Well 112

**Table A.4**  
**Instantaneous Landfill Surface Emissions Monitoring**  
**Areas of Concern Greater than 200 ppmv**

**2021 QUARTER:** 4

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			Re-mon Event		Comments
Exceedance	Monitoring	Field	Monitoring	Reading	
Grid ID No.	Date	Reading	Date	ppm	
None					

# Orange Flag Landfill Surface Emissions Monitoring Exceedances and Monitoring Log

Site: Garbage

Quarter / Year:		4Q4 2021		Page		of		Pages	
Technician:		LESLIE AOE		30-Day Follow-up Monitoring		Date <td colspan="2">Comments</td>		Comments	
Instrument:		AVA 1050		No Excd.		No Excd.			
Calibration Standard:		500ppm		<500 ppm		<500 ppm			
		Date <th colspan="2">Monitored</th> <th colspan="2">Monitored</th> <td colspan="2"></td>		Monitored		Monitored			
		Monitored <th colspan="2">&gt;500 ppm</th> <th colspan="2">&gt;500 ppm</th> <td colspan="2"></td>		>500 ppm		>500 ppm			
		Date <th colspan="2">Monitored</th> <th colspan="2">Monitored</th> <td colspan="2"></td>		Monitored		Monitored			
		Field Reading (ppm) <th colspan="2">No Excd.</th> <th colspan="2">No Excd.</th> <td colspan="2"></td>		No Excd.		No Excd.			
		Date <th colspan="2">&lt;500 ppm</th> <th colspan="2">&gt;500 ppm</th> <td colspan="2"></td>		<500 ppm		>500 ppm			
		Monitored <th colspan="2">&gt;500 ppm</th> <th colspan="2">&gt;500 ppm</th> <td colspan="2"></td>		>500 ppm		>500 ppm			
01	1	510	11-12-21						WEI 1581
02	10	600							WEI 176
021	13	1500							WEI 207
011	13	500							WEI 199
012	36	19,432							WEI 185
013	90	1500							WEI 112
0-									
0-									
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## GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: L. S. W. 105 C. C. W. 0212  
D. W. H. A. M. O. N. J. W.  
R. C. C. L. O. N. G. Cal. Gas Exp. Date: 6-9-22

Date: 11-12-21 Instrument Used: LVA 1060 Grid Spacing: 25'

Temperature: 50 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	0545	0600	510	2	3	1	well 567
2	DA	0545	0600	45	2	3	1	
3	RL	0545	0600	80	2	3	1	
4	CO	0545	0600	22	2	3	1	
5	LW	0600	0615	27	2	3	2	
6	DA	0600	0615	39	2	3	2	
7	RL	0600	0615	45	2	3	2	
8	CO	0600	0615	32	2	3	2	
9	LW	0615	0630	27	2	3	1	
10	DA	0615	0630	600	2	3	1	well 176
11	RL	0615	0630	16	2	3	1	
12	CO	0615	0630	22	2	3	1	
13	LW	0630	0645	1560	2	3	1	well 207
15	DA	0630	0645	31	2	3	1	
16	RL	0630	0645	41	2	3	1	
18	CO	0630	0645	56	2	3	1	
19	LW	0645	0700	13	2	3	1	
20	DA	0645	0700	49	2	3	1	
21	RL	0645	0700	130	2	3	1	
24	CO	0645	0710	18	2	3	1	
25	LW	0700	0715	59	2	4	2	
26	DA	0700	0715	34	2	4	2	
29	RL	0700	0715	25	2	4	2	
30	CO	0700	0715	37	2	4	2	
31	LW	0715	0730	85	2	3	16	
35	DA	0715	0730	18	2	3	16	
36	RL	0715	0730	19,432	2	3	16	well 185
37	CO	0715	0730	54	2	3	16	
41	LW	0730	0745	19	2	3	15	
42	DA	0730	0745	24	2	3	15	

Attach Calibration Sheet  
 Attach site map showing grid ID

## GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHWADE CALVIN ORTIZ  
DWIGHT ANDRUSIV  
R. CLAREN Cal. Gas Exp. Date: 6-9-22

Date: 11-12-21 Instrument Used: FVA 1000 Grid Spacing: 25'

Temperature: 54 Precip: 0 Upwind BG: 1.5 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
43	RL	0730	0745	38	2	3	15	
47	CO	0730	0745	22	2	3	15	
48	LW	0745	0800	19	2	3	15	
49	DA	0745	0800	26	2	3	15	
50	RL	0745	0800	65	2	3	15	
54	CO	0745	0800	37	2	3	15	
55	LW	0800	0815	68	2	3	15	
59	DA	0800	0815	49	2	3	15	
60	RL	0800	0815	71	2	3	15	
61	CO	0800	0815	42	2	3	15	
64	LW	0815	0830	78	2	3	15	
66	DA	0815	0830	41	2	3	15	
67	RL	0815	0830	84	2	3	15	
69	CO	0815	0830	22	2	3	15	
71	LW	0830	0845	28	2	3	14	
72	DA	0830	0845	35	2	3	14	
73	RL	0830	0845	23	2	3	14	
74	CO	0830	0845	16	2	3	14	
76	LW	0845	0900	19	2	3	14	
77	DA	0845	0900	21	2	3	14	
78	RL	0845	0900	46	2	3	14	
79	CO	0845	0900	20	2	3	14	
81	LW	0900	0915	27	2	3	12	
82	DA	0900	0915	39	2	3	12	
83	RL	0900	0915	33	2	3	12	
85	CO	0900	0915	92	2	3	12	
86	LW	0915	0930	21	1	2	12	
87	DA	0915	0930	37	1	2	12	
89	RL	0915	0930	126	1	2	12	
90	CO	0915	0930	1500	1	2	12	WELL 112

Attach Calibration Sheet  
 Attach site map showing grid ID



**GUADALUPE LANDFILL  
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: Coughlin      Estroff  
DWIGHT ANDERSON  
RICK ENOS      Cal. Gas Exp. Date: 6-9-22

Date: 11-12-21 Instrument Used: FVA1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
91	LW	0930	0945	14	1	2	12	
92	DA	0930	0945	11	1	2	12	
93	RL	0930	0945	26	1	2	12	
94	LO	0930	0945	18	1	2	12	
95	LW	0945	1000	14	1	2	11	
96	DA	0945	1000	11	1	2	11	
97	RL	0945	1000	18	1	2	11	
98	LO	0945	1000	45	1	2	11	
99	LW	1000	1015	15	1	2	12	
100	DA	1000	1015	11	1	2	12	
101	RL	1000	1015	14	1	2	12	
102	LO	1000	1015	27	1	2	12	
103	LW	1015	1030	17	1	2	12	
104	-DA	1015	1030	14	1	2	12	
105	RL	1015	1030	21	1	2	12	

Attach Calibration Sheet  
 Attach site map showing grid ID

# GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHMAN \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Cal. Gas Exp. Date: \_\_\_\_\_

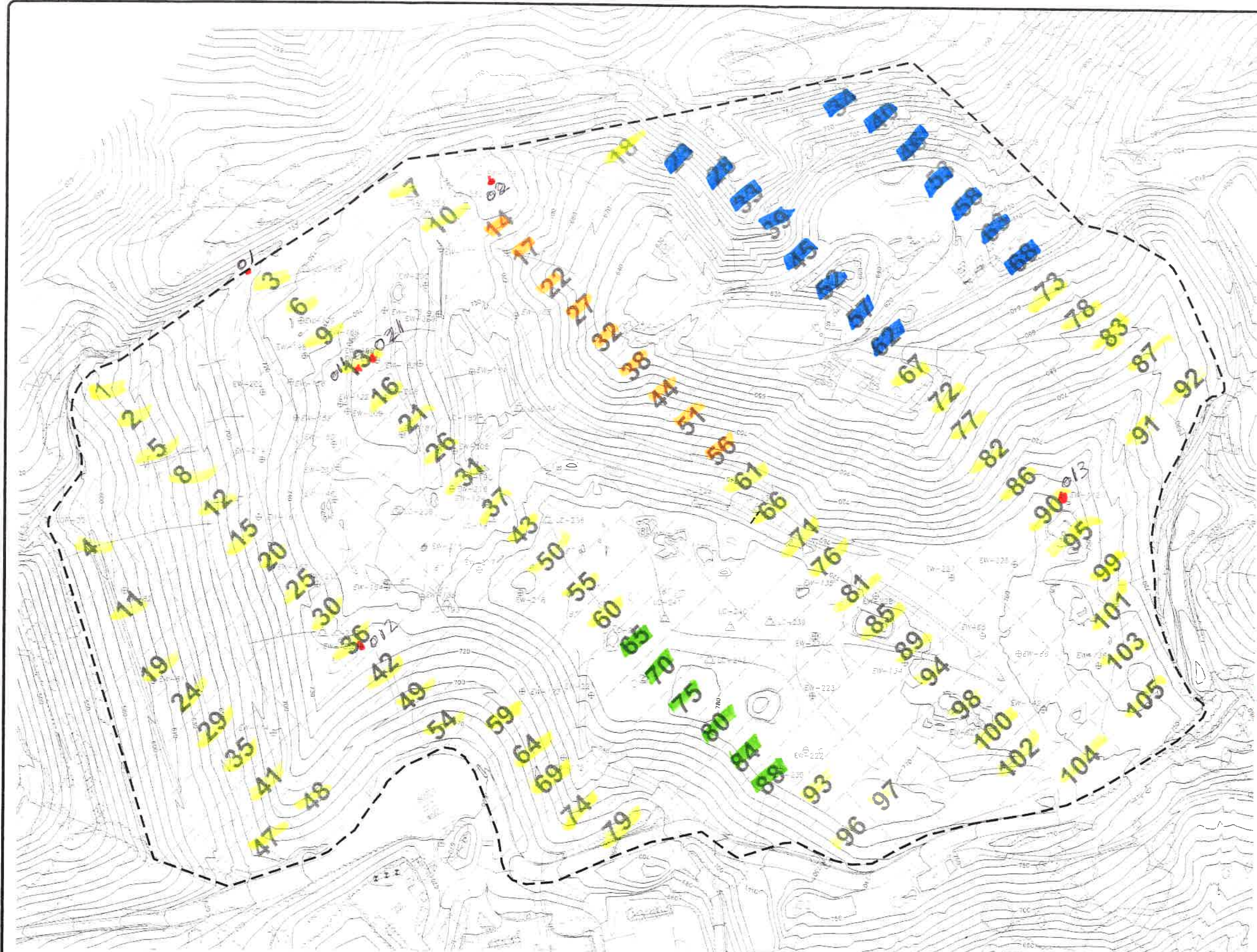
Date: 11-12-21 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

Temperature: \_\_\_\_\_ Precip: \_\_\_\_\_ Upwind BG: \_\_\_\_\_ Downwind BG: \_\_\_\_\_

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
65								Active trash
70								
75								
80								
84								
88								↓
23								no waste in place
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								
58								
62								
63								
68								↓
14								steep slopes
17								
22								
27								
32								
38								
44								
51								
56								↓

Attach Calibration Sheet  
 Attach site map showing grid ID

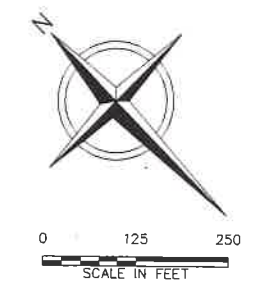
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**LEGEND**

- PROPERTY BOUNDARY
- APPROXIMATE WASTE FOOTPRINT
- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING REMOTE WELLHEAD
- EXISTING PROBE
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING LOCAL CONTROL WELL
- SEM GRID BLOCK

105



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
  2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
  3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
  4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
  5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

*Instalation 2020 11-12-21*

- GRASSY SLOPES
- steep slopes
- NO WASTE IMPACT
- Active Areas
- Soot Puff



REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
1	1/12/2020					



**FINAL AS-BUILT**










GUADALUPE RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
 2020 GCCS IMPROVEMENTS

**SEM GRID MAP**

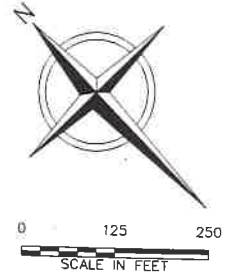
SHEET NO  
**3**  
 PROJECT NO  
 200126

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**LEGEND**




-  PROPERTY BOUNDARY
-  APPROXIMATE WASTE FOOTPRINT
-  EXISTING 10' CONTOUR
-  EXISTING LFG EXTRACTION WELL
-  EXISTING REMOTE WELLHEAD
-  EXISTING PROBE
-  EXISTING HORIZONTAL COLLECTOR WELLHEAD
-  EXISTING LOCAL CONTROL WELL
-  SEM GRID BLOCK

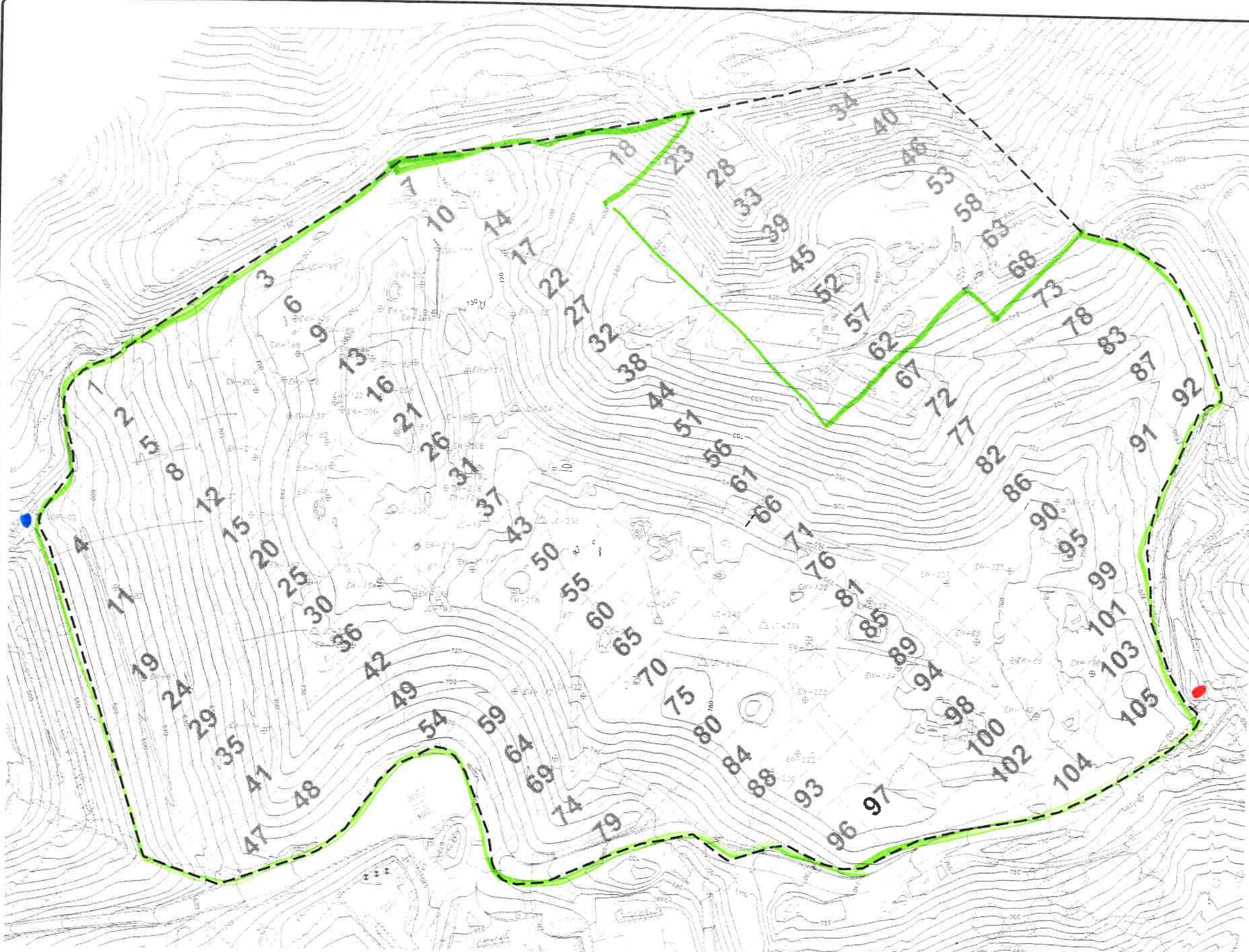
105



**NOTES:**

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF EUREN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
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6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

 4th Quarter 2021  
 NPS perimeter sweep  
 Upwind  
 Downwind



REV	DATE	DESCRIPTION	DWG BY	DES BY	CHK BY	APP BY
1	11/12/2020		GVP	DPP	JAM	PLS



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
 2020 GCCS IMPROVEMENTS

SHEET NO  
**3**  
 PROJECT NO  
 ZC0126

SEM GRID MAP

FINAL AS-BUILT

**Attachment B**

Integrated Surface Emission Monitoring Event Records

**Table B.1  
Integrated Landfill Surface Monitoring  
Exceedances and Monitoring Log**

**2021 QUARTER:** 4

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			Comments
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	
None						

## GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WOOD CELIA WORTH  
DWIGHT A. ROSS  
ROBERTSON Cal. Gas Exp. Date: 6-9-22

Date: 11-11-21 Instrument Used: LVA1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	1450	1515	6.51	1	2	16	
2	DA	1450	1515	6.45	1	2	16	
3	RL	1450	1515	8.22	1	2	16	
4	CO	1450	1515	6.17	1	2	16	
5	LW	1515	1540	5.92	2	3	1	
6	DA	1515	1540	7.24	2	3	1	
7	RL	1515	1540	6.18	2	3	1	
8	CO	1515	1540	6.57	2	3	1	
9	LW	1540	1605	8.22	2	3	2	
10	DA	1540	1605	6.07	2	3	2	
11	RL	1540	1605	9.10	2	3	2	
12	CO	1540	1605	7.42	2	3	2	
13	LW	1605	1630	6.07	2	3	3	
15	DA	1605	1630	6.30	2	3	3	
16	RL	1605	1630	7.30	2	3	3	
18	CO	1605	1630	6.97	2	3	3	
19	LW	1630	1655	3.77	2	3	3	
20	DA	1630	1655	7.45	2	3	3	
21	RL	1630	1655	6.13	2	3	3	
24	CO	1630	1655	3.42	2	3	3	
25	LW	1655	1720	5.92	2	3	3	
26	DA	1655	1720	9.20	2	3	3	
29	RL	1655	1720	6.89	2	3	3	
30	CO	1655	1720	7.14	2	3	3	

Attach Calibration Sheet  
 Attach site map showing grid ID

Page 1 of 1

## GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Cal. Gas Exp. Date: \_\_\_\_\_

Date: 11-11-21 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

Temperature: \_\_\_\_\_ Precip: \_\_\_\_\_ Upwind BG: \_\_\_\_\_ Downwind BG: \_\_\_\_\_

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
65								Active trash
70								
75								
80								
84								
88								
23								no waste in place
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								
58								
62								
63								
68								
14								steep slopes
17								
22								
27								
32								
38								
44								
51								
56								

Attach Calibration Sheet  
 Attach site map showing grid ID



## GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE COLVIN ORTIZ  
DWIGHT ANDERSON  
RICK LONES Cal. Gas Exp. Date: 6-9-22

Date: 11-12-21 Instrument Used: LVA 1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
31	LV	1040	1105	6.97	1	2	13	
35	DA	1040	1105	5.40	1	2	D	
36	RL	1040	1105	8.42	1	2	D	
37	CO	1040	1105	10.12	1	2	13	
41	LV	1105	1120	5.40	1	2	13	
42	DA	1105	1120	6.49	1	2	D	
43	RL	1105	1120	6.77	1	2	D	
47	CO	1105	1120	5.21	1	2	13	
48	LV	1120	1155	7.30	1	2	D	
49	DA	1120	1155	7.58	1	2	D	
50	RL	1120	1155	6.27	1	2	13	
54	CO	1120	1155	5.48	1	2	13	
55	LV	1155	1220	9.21	1	2	13	
59	DA	1155	1220	6.14	1	2	D	
60	RL	1155	1220	7.31	1	2	D	
61	CO	1155	1220	5.25	1	2	13	
64	LV	1220	1245	5.15	1	2	13	
66	DA	1220	1245	7.38	1	2	D	
67	RL	1220	1245	8.19	1	2	D	
69	CO	1220	1245	6.34	1	2	13	
71	LV	1245	1310	5.58	1	2	14	
72	DA	1245	1310	5.96	1	2	14	
73	RL	1245	1310	6.24	1	2	14	
74	CO	1245	1310	5.50	1	2	14	
76	LV	1310	1335	5.75	1	2	14	
77	DA	1310	1335	6.03	1	2	14	
78	RL	1310	1335	5.30	1	2	14	
79	CO	1310	1335	4.67	1	2	14	
81	LV	1335	1400	5.46	1	2	14	
82	DA	1335	1400	5.78	1	2	14	

Attach Calibration Sheet  
 Attach site map showing grid ID

# GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LOUIS WOOD CSLWIN DATA  
Dwight Anderson  
RICKE LOUIS Cal. Gas Exp. Date: 6-9-22

Date: 11-12-21 Instrument Used: AVA1000 Grid Spacing: 25'

Temperature: 71 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.4

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
83	RL	1335	1400	6.34	1	2	12	
85	CO	1335	1400	5.21	1	2	12	
86	LW	1400	1425	6.07	1	2	14	
87	DR	1400	1425	5.30	1	2	14	
89	RL	1400	1425	5.47	1	2	14	
90	CO	1400	1425	5.22	1	2	14	
91	LW	1425	1450	4.80	1	2	14	
92	DR	1425	1450	4.28	1	2	14	
93	RL	1425	1450	4.75	1	2	14	
94	CO	1425	1450	5.18	1	2	14	
95	LW	1450	1515	4.29	1	2	13	
96	DR	1450	1515	5.35	1	2	D	
97	RL	1450	1515	5.10	1	2	D	
98	CO	1515	1540	4.07	1	2	D	
99	LW	1515	1540	4.65	1	2	D	
100	DR	1515	1540	3.95	1	2	D	
101	RL	1515	1540	5.18	1	2	D	
102	CO	1540	1565	4.66	1	2	13	
103	LW	1540	1605	4.14	1	2	12	
104	DR	1540	1605	3.65	1	2	D	
105	RL	1540	1605	3.22	1	2	12	

Attach Calibration Sheet  
 Attach site map showing grid ID

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

11-12-21

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
1		Riser-1				1		510	
2		Riser-2				3		80	
3	39270	H-12L ✓	Leachate Riser or Sump (LR)	37.2175051	-121.9013879	4		22	LCRS NORTH
4	46004	EW-179 ✓	LFG Collector - Standard	37.2172819	-121.8987819	6		39	
5	49173	LC-196 ✓	LFG Collector - Standard	37.217485	-121.8971917	7		45	
6		Riser-3				7		31	
7	51829	EW-198 ✓	LFG Collector - Standard	37.217173	-121.8988572	9		27	
8	51833	EW-202 ✓	LFG Collector - Standard	37.2171697	-121.8994333	9		24	
9	45884	EW-176 ✓	LFG Collector - Standard	37.2171275	-121.896709	10		600	
10	45883	EW-177 ✓	LFG Collector - Standard	37.217047	-121.8974175	10		20	
11	60097	LC-232 ✓	LFG Collector - Standard	37.2171237	-121.8970001	10		14	WAS 2019 PW6
12	60098	LC-233 ✓	LFG Collector - Standard	37.2172233	-121.8972595	10		11	WAS 2019 PW7
13	23223	EW-82 ✓	LFG Collector - Standard	37.216757	-121.9015677	11		16	
14	54149	EW-214 ✓	LFG Collector - Standard	37.2168516	-121.8997801	12		14	
15	54149	EW-214 ✓	LFG Collector - Standard	37.2168516	-121.8997801	12		22	
16	38188	EW-122 ✓	LFG Collector - Standard	37.2167213	-121.8989765	13		45	
17	45881	EW-178 ✓	LFG Collector - Standard	37.2170005	-121.8981799	13		17	
18	51830	EW-199 ✓	LFG Collector - Standard	37.216939	-121.8985607	13		500	
19	54142	EW-207 ✓	LFG Collector - Standard	37.2167973	-121.8984098	13		29	
20	54142	EW-207 ✓	LFG Collector - Standard	37.2167973	-121.8984098	13		1500	stop slope top
21	51831	EW-200 ✓	LFG Collector - Standard	37.2165278	-121.8982343	14		25	
22	39762	EW-161 ✓	LFG Collector - Standard	37.2163602	-121.899993	15		31	
23	39753	EW-152 ✓	LFG Collector - Standard	37.2170233	-121.897694	16		27	
24	49230	EW-180 ✓	LFG Collector - Standard	37.2164993	-121.899249	16		41	
25	54143	EW-208 ✓	LFG Collector - Standard	37.2166558	-121.8986408	16		38	
26	54144	EW-209 ✓	LFG Collector - Standard	37.2166911	-121.898995	16		22	
27	54143	EW-208 ✓	LFG Collector - Standard	37.2166558	-121.8986408	16		15	
28	54144	EW-209 ✓	LFG Collector - Standard	37.2166911	-121.898995	16		34	
29	49165	LC-188 ✓	LFG Collector - Standard	37.2165115	-121.8979523	16		27	
30	39748	EW-147 ✓	LFG Collector - Standard	37.2163282	-121.8974612	17		21	top of slope slope ↓
31	54139	EW-204 ✓	LFG Collector - Standard	37.2164842	-121.8974352	17		46	
32	23222	EW-81 ✓	LFG Collector - Standard	37.2164003	-121.9016828	19		13	
33	39766	EW-146 ✓	LFG Collector - Standard	37.2161893	-121.8996248	20		27	
34	39763	EW-162 ✓	LFG Collector - Standard	37.2162872	-121.9004384	20		49	
35	39752	EW-151 ✓	LFG Collector - Standard	37.216596	-121.8976265	21		25	
36	45882	EW-181 ✓	LFG Collector - Standard	37.2163757	-121.8981417	21		130	
37	54146	EW-211 ✓	LFG Collector - Standard	37.2164085	-121.899347	21		33	
38	54146	EW-211 ✓	LFG Collector - Standard	37.2164085	-121.899347	21		16	
39	54148	EW-213 ✓	LFG Collector - Standard	37.2157313	-121.9000587	25		28	
40	54148	EW-213 ✓	LFG Collector - Standard	37.2157313	-121.9000587	25		59	
41	54140	EW-205 ✓	LFG Collector - Standard	37.2159232	-121.8985607	26		20	
42	49166	LC-189 ✓	LFG Collector - Standard	37.2159743	-121.8981168	26		17	
43	60101	LC-236 ✓	LFG Collector - Standard	37.2159606	-121.8993035	26		34	WAS 2019 PW1A

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

11-12-21

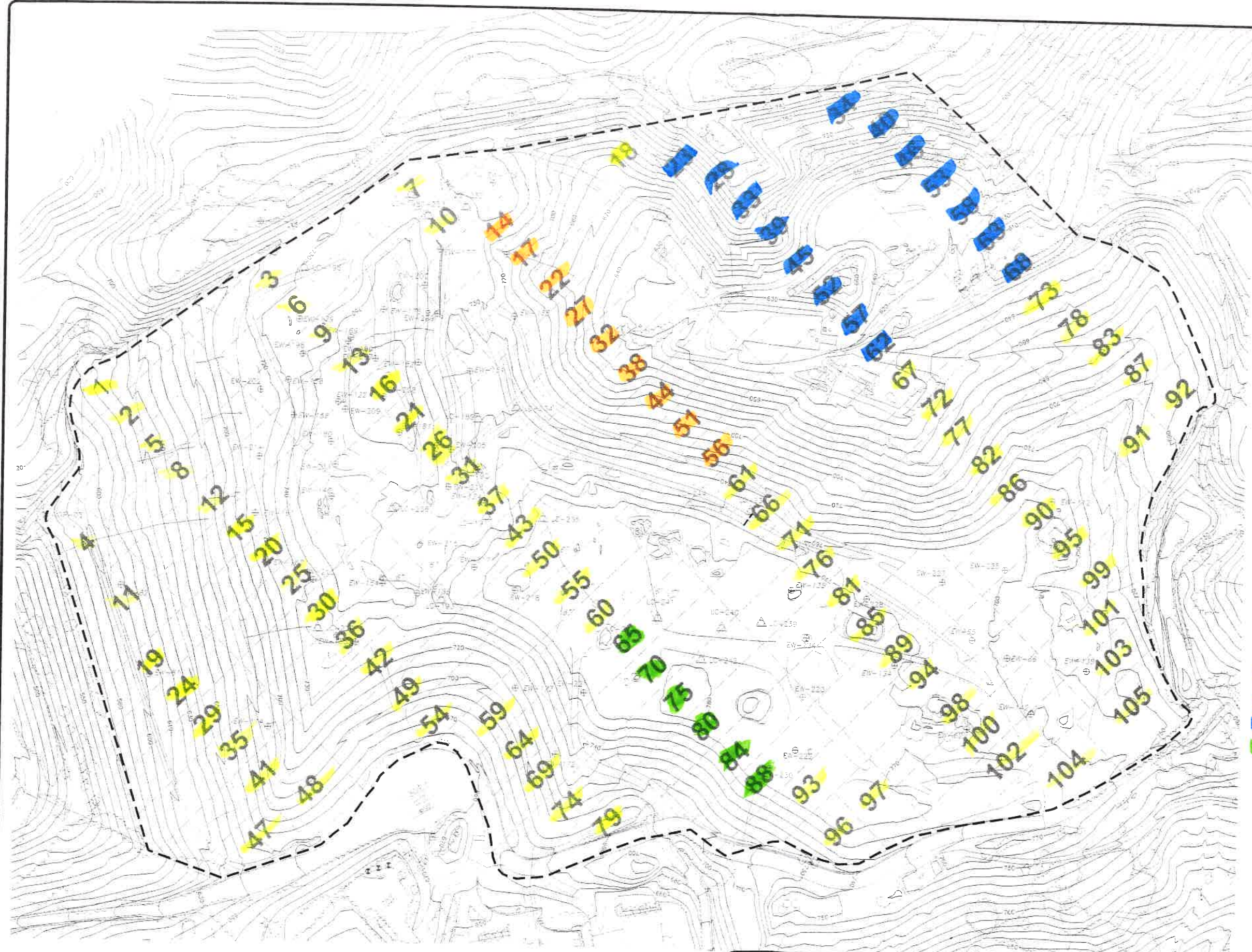
No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
44	60102	LC-237 ✓	LFG Collector - Standard	37.2155189	-121.9004241	30		37	WAS 2019 PW2
45	51832	EW-201 ✓	LFG Collector - Standard	37.2158282	-121.8977395	31		19	
46	54151	EW-216 ✓	LFG Collector - Standard	37.2157522	-121.8988583	31		24	
47	54151	EW-216 ✓	LFG Collector - Standard	37.2157522	-121.8988583	31		65	
48	49167	LC-190 ✓	LFG Collector - Standard	37.2158131	-121.8986935	31		32	
49	60099	LC-234 ✓	LFG Collector - Standard	37.2158817	-121.8978367	31		15	WAS 2019 PW3
50		Riser-4				32		38	stop slope bottom
51	31994	EW-114 ✓	LFG Collector - Standard	37.2156196	-121.9010846	35		18	
52	39755	EW-154 ✓	LFG Collector - Standard	37.2155737	-121.8997444	36		42	
53	46005	EW-185 ✓	LFG Collector - Standard	37.2153905	-121.9003022	36		19, 43, 2	
54	49231	EW-186 ✓	LFG Collector - Standard	37.2154869	-121.8998067	36		45	
55	38190	EW-124 ✓	LFG Collector - Standard	37.2153568	-121.8985882	37		31	
56	54150	EW-215 ✓	LFG Collector - Standard	37.215772	-121.899337	37		26	
57	54150	EW-215 ✓	LFG Collector - Standard	37.215772	-121.899337	37		54	
58	49168	LC-191 ✓	LFG Collector - Standard	37.2152815	-121.8987616	37		31	
59	51834	EW-203 ✓	LFG Collector - Standard	37.2148903	-121.8973953	38		15	top stop slope
60	39269	H-111 ✓	Leachate Riser or Sump (LR)	37.2152234	-121.9024543	41		17	LCRS SOUTH
61	49170	LC-193 ✓	LFG Collector - Standard	37.2152829	-121.8997004	42		24	
62	48202	EW-183 ✓	LFG Collector - Standard	37.2151482	-121.897999	43		33	
63	54152	EW-217 ✓	LFG Collector - Standard	37.2151787	-121.8990435	43		21	
64	54152	EW-217 ✓	LFG Collector - Standard	37.2151787	-121.8990435	43		38	
65	60100	LC-235 ✓	LFG Collector - Standard	37.2151227	-121.8982697	43		22	WAS 2019 PW15
66		Riser-5				44		37	stop slope bottom
67	54153	EW-218 ✓	LFG Collector - Standard	37.2148855	-121.8989922	50		65	
68	54153	EW-218 ✓	LFG Collector - Standard	37.2148855	-121.8989922	50		49	
69	48203	EW-184 ✓	LFG Collector - Standard	37.2147669	-121.8977769	55		37	
70	46006	EW-187 ✓	LFG Collector - Standard	37.2144877	-121.89889	55		20	
71	49169	LC-192 ✓	LFG Collector - Standard	37.2147005	-121.8985396	55		68	
72	42102	EW-173 ✓	LFG Collector - Standard	37.2145096	-121.8994779	59		49	
73	38195	EW-129 ✓	LFG Collector - Standard	37.2086995	-121.8522755	60		53	
74	54154	EW-219 ✓	LFG Collector - Standard	37.2142966	-121.898854	60		38	
75	54155	EW-220 ✓	LFG Collector - Standard	37.2145068	-121.8985888	60		44	
76	54154	EW-219 ✓	LFG Collector - Standard	37.2142966	-121.898854	60		26	
77	54155	EW-220 ✓	LFG Collector - Standard	37.2145068	-121.8985888	60		71	
78	60109	LC-244 ✓	LFG Collector - Standard	37.2148416	-121.8974755	61		42	WAS 2019 PW4
79		CS-1	Condensate Sump or Drain (CS)	37.2141842	-121.8986237	62		155	now active in piece
80		CS-2	Condensate Sump or Drain (CS)	37.2148416	-121.8974755	62		85	↑
81		CS-3	Condensate Sump or Drain (CS)	37.2152234	-121.9024543	62		110	
82	54156	EW-221 ✓	LFG Collector - Standard	37.2141303	-121.8990035	65			Active
83	54156	EW-221 ✓	LFG Collector - Standard	37.2141303	-121.8990035	65			Active
84	60106	LC-241 ✓	LFG Collector - Standard	37.214152	-121.8981348	65			WAS 2019 PW10 Active
85	60108	LC-243 ✓	LFG Collector - Standard	37.2141842	-121.8986237	65			WAS 2019 PW8 Active
86	54161	EW-226 ✓	LFG Collector - Standard	37.2139737	-121.8975753	66		28	
87	54161	EW-226 ✓	LFG Collector - Standard	37.2139737	-121.8975753	66		41	

GUADALUPE LANDFILL - MONITORING POINTS FOR SEM - UPDATED ON 11-09-2021

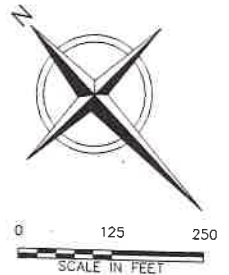
11-12-21

No.	Point ID	DESCRIPTION	POINT TYPE	LATITUDE	LONGITUDE	SEM GRID BLOCK NO.	DATE	READING (PPM)	NOTES
88	60103	LC-238, ✓ Riser-6	LFG Collector - Standard	37.2142127	-121.896996	66		27	WAS 2019 PW11
89	42101	EW-172 ✓	LFG Collector - Standard	37.21412	-121.8996291	67		84	
90	60105	LC-240 ✓	LFG Collector - Standard	37.2138042	-121.8978297	69		22	
91	49174	LC-197 ✓	LFG Collector - Standard	37.2138179	-121.8967375	70			WAS 2019 PW13 Active
92	38197	EW-131 ✓	LFG Collector - Standard	37.2136797	-121.8993258	71		28	Active
93	60107	LC-242 ✓	LFG Collector - Standard	37.2138288	-121.8983188	75			WAS 2019 PW14 Active
94	38201	EW-135 ✓	LFG Collector - Standard	37.2136061	-121.897305	75		19	
95	60104	LC-239 ✓	LFG Collector - Standard	37.2134243	-121.897615	76		12	
96	54159	EW-224 ✓	LFG Collector - Standard	37.2132002	-121.8974548	81		21	WAS 2019 PW239
97	54163	EW-228 ✓	LFG Collector - Standard	37.2132484	-121.8969069	81		14	
98	54159	EW-224 ✓	LFG Collector - Standard	37.2132002	-121.8974548	81		27	
99	54158	EW-223 ✓	LFG Collector - Standard	37.2129712	-121.8977091	84		39	Active
100	54158	EW-223 ✓	LFG Collector - Standard	37.2129712	-121.8977091	84			Active
101	54158	EW-223 ✓	LFG Collector - Standard	37.2129712	-121.8977091	84			Active
102	54163	EW-228 ✓	LFG Collector - Standard	37.2132484	-121.8969069	85		92	Active
103	54157	EW-222 ✓	LFG Collector - Standard	37.2127377	-121.8981113	88			Active
104	54165	EW-230 ✓	LFG Collector - Standard	37.2126277	-121.8980338	88			
105	54157	EW-222 ✓	LFG Collector - Standard	37.2127377	-121.8981113	88			
106	54165	EW-230 ✓	LFG Collector - Standard	37.2126277	-121.8980338	88			
107	38200	EW-134 ✓	LFG Collector - Standard	37.2129335	-121.8970899	89		126	
108	54162	EW-227 ✓	LFG Collector - Standard	37.2129485	-121.8961233	89		19	
109	54162	EW-227 ✓	LFG Collector - Standard	37.2129485	-121.8961233	89		32	
110	23240	EW-112 ✓	LFG Collector - Standard	37.2127553	-121.8949208	90		1500	
111	54160	EW-225 ✓	LFG Collector - Standard	37.2126679	-121.8956942	90		31	
112	54160	EW-225 ✓	LFG Collector - Standard	37.2126679	-121.8956942	90		24	
113	23214	EW-65 ✓	LFG Collector - Standard	37.2123487	-121.896153	94		18	
114	23215	EW-66 ✓	LFG Collector - Standard	37.2119331	-121.8960039	98		45	
115	23211	EW-62 ✓	LFG Collector - Standard	37.2119254	-121.8968871	100		11	
116	38208	EW-142 ✓	LFG Collector - Standard	37.2118093	-121.8963646	102		21	
117	38204	EW-138 ✓	LFG Collector - Standard	37.2118108	-121.8959464	103		17	

I:\Projects\GIS\MapInfo\Projects\Guadalupe\2020\AS-BUILT Final Update\_RCPD.dwg Layout: 53 User: CHELSEA\WMS Nov 12, 2020 - 10:33am



- LEGEND**
- PROPERTY BOUNDARY
  - APPROXIMATE WASTE FOOTPRINT
  - EXISTING 10' CONTOUR
  - EXISTING LFG EXTRACTION WELL
  - EXISTING REMOTE WELLHEAD
  - EXISTING PROBE
  - EXISTING HORIZONTAL COLLECTOR WELLHEAD
  - EXISTING LOCAL CONTROL WELL
  - SEM GRID BLOCK



- NOTES:**
1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: APRIL 1, 2020. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
  2. SUPPLEMENTAL 2015 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON MAY 29, 2015. WELL LOCATIONS PER ISSUED FOR CONSTRUCTION WELL SCHEDULE DATED APRIL 10, 2015.
  3. 2018 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: DECEMBER 11, 2018.
  4. 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER SURVEY PROVIDED BY WM DATED: NOVEMBER 11, 2019.
  5. SUPPLEMENTAL 2019 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JANUARY 6, 2020.
  6. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON JANUARY 27, 2020 AND JANUARY 29, 2020.
  7. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.

Integrated 11-11-21  
11-12-21

- Grass mounds
- steep slopes
- no waste in place
- Active trash



REV	DATE	DESCRIPTION	OWN BY	DES BY	CHK BY	APP BY
1	11/12/2020					



GUADALUPE RECYCLING AND DISPOSAL FACILITY  
SAN JOSE, CALIFORNIA  
2020 GCCS IMPROVEMENTS

SHEET NO.  
**3**  
PROJECT NO.  
200126

FINAL AS-BUILT

SEM GRID MAP

**Attachment C**

Component Leak Monitoring Event Records

**Table C.1**  
**AB-32 Component Leak Monitoring**  
**Summary of Component Leaks Greater than 500 ppmv**

**2021 QUARTER:** 4

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
<b>Flare Station A-9</b>	11/12/2021	ND	RES	NA	NA	NA	NA	NA
<b>Flare Station A-14</b>	11/12/2021	ND	RES	NA	NA	NA	NA	NA

ND= Non Exceedances



**Table C.2**  
**BAAQMD Component Leak Monitoring**  
**Summary of Component Leaks Greater than 1,000 ppmv**

**2021 QUARTER:** 4

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** NA

**LANDFILL NAME:** Guadalupe Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
<b>Flare Station A-9</b>	11/12/2021	ND	RES	NA	NA	NA	NA	NA
<b>Flare Station A-14</b>	11/12/2021	ND	RES	NA	NA	NA	NA	NA

ND= Non Exceedances



Landfill component Leak Check  
Guadalupe New Flare



1/12-21  
DATE

8900

3000

5000

4500

5000

7000

1800

3000

3000



Landfill component Leak Check  
Guadalupe New Flare

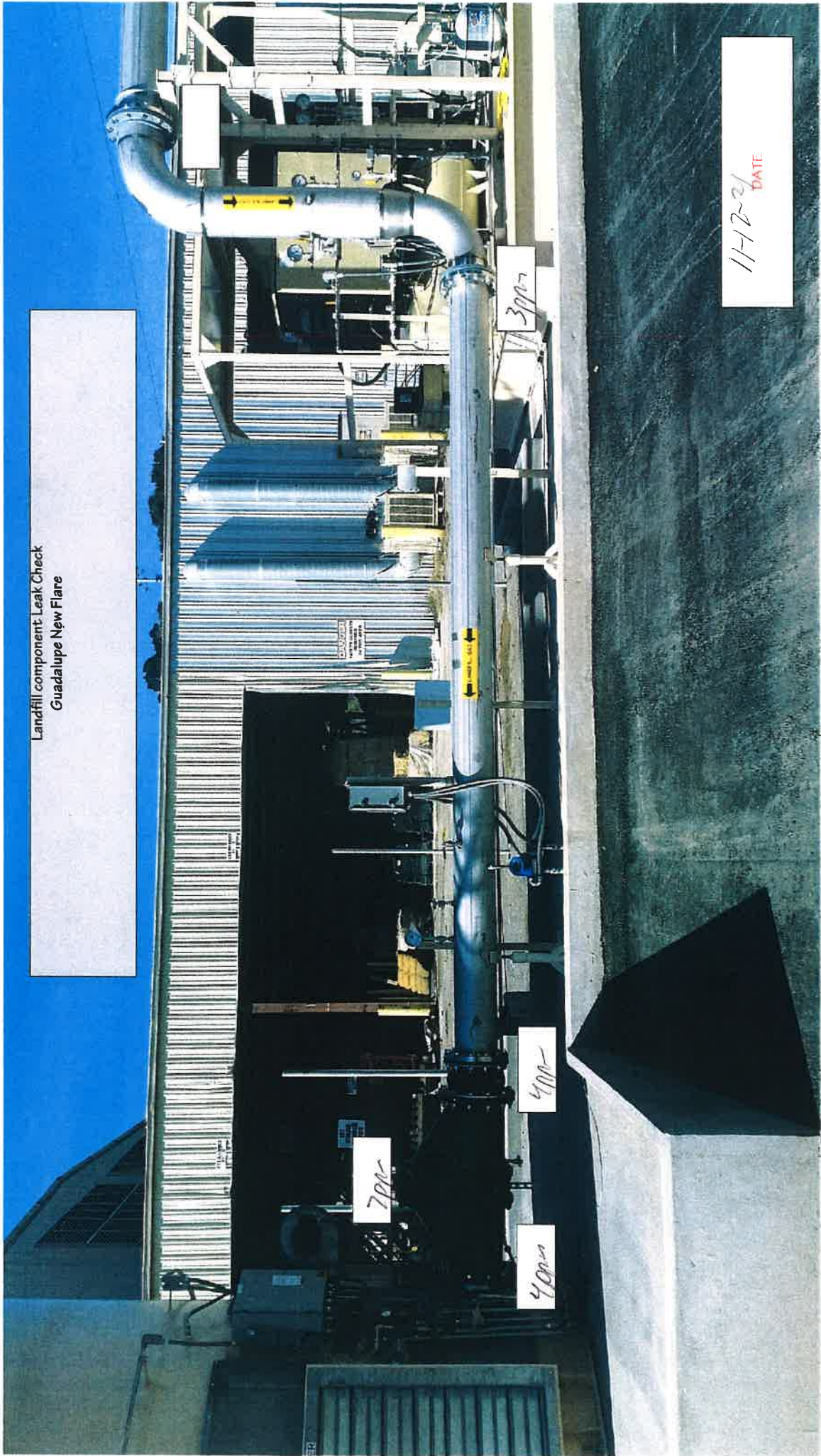


11-20-21  
DATE

3

3

Landfill component: Leak Check  
Guadalupe New Flare



11-17-21  
DATE

Landfill component Leak Check  
Guadalupe



4992

3997

11-12-21  
DATE

Landfill component Leak Check  
Guadalupe

3ppv

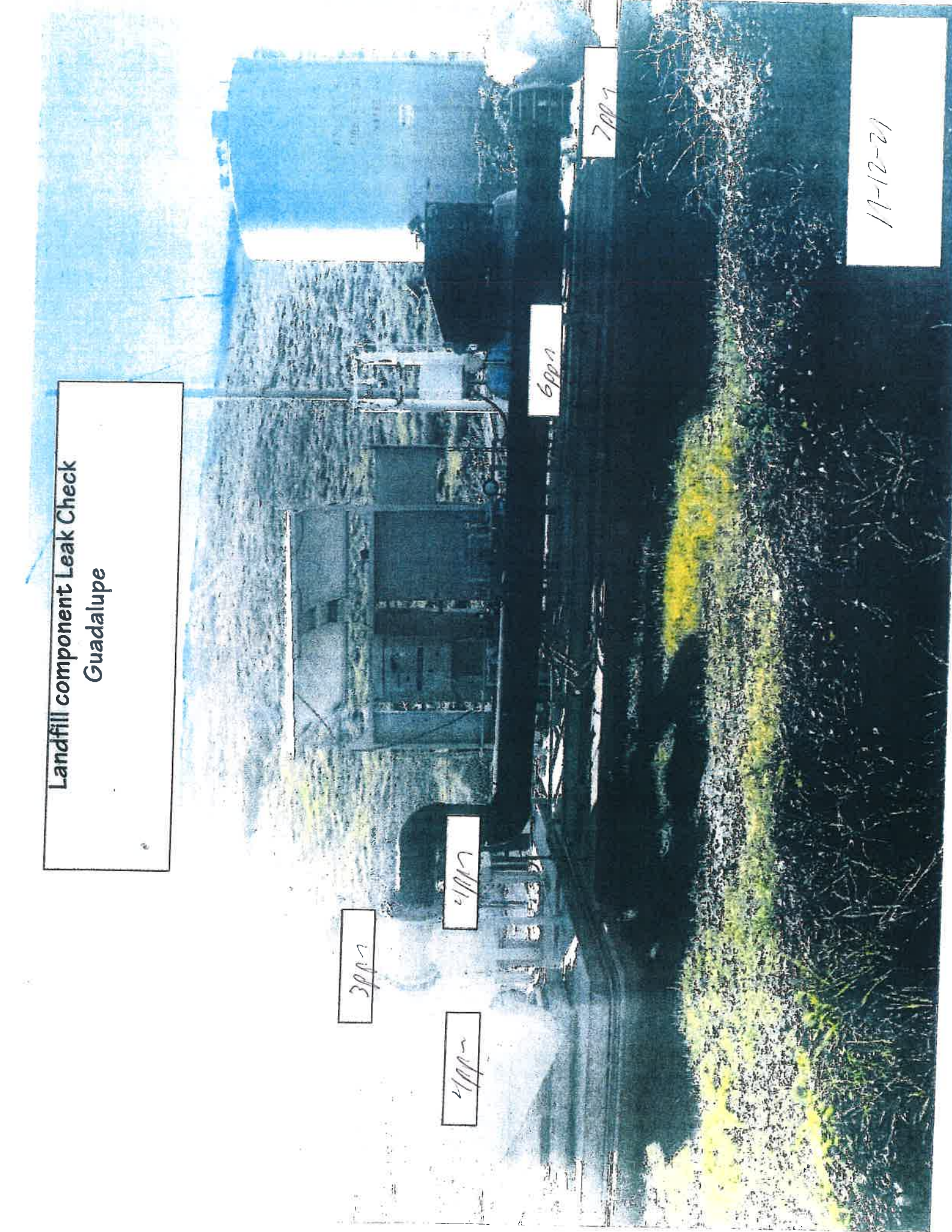
4ppv

5ppv

6ppv

7ppv

17-12-21



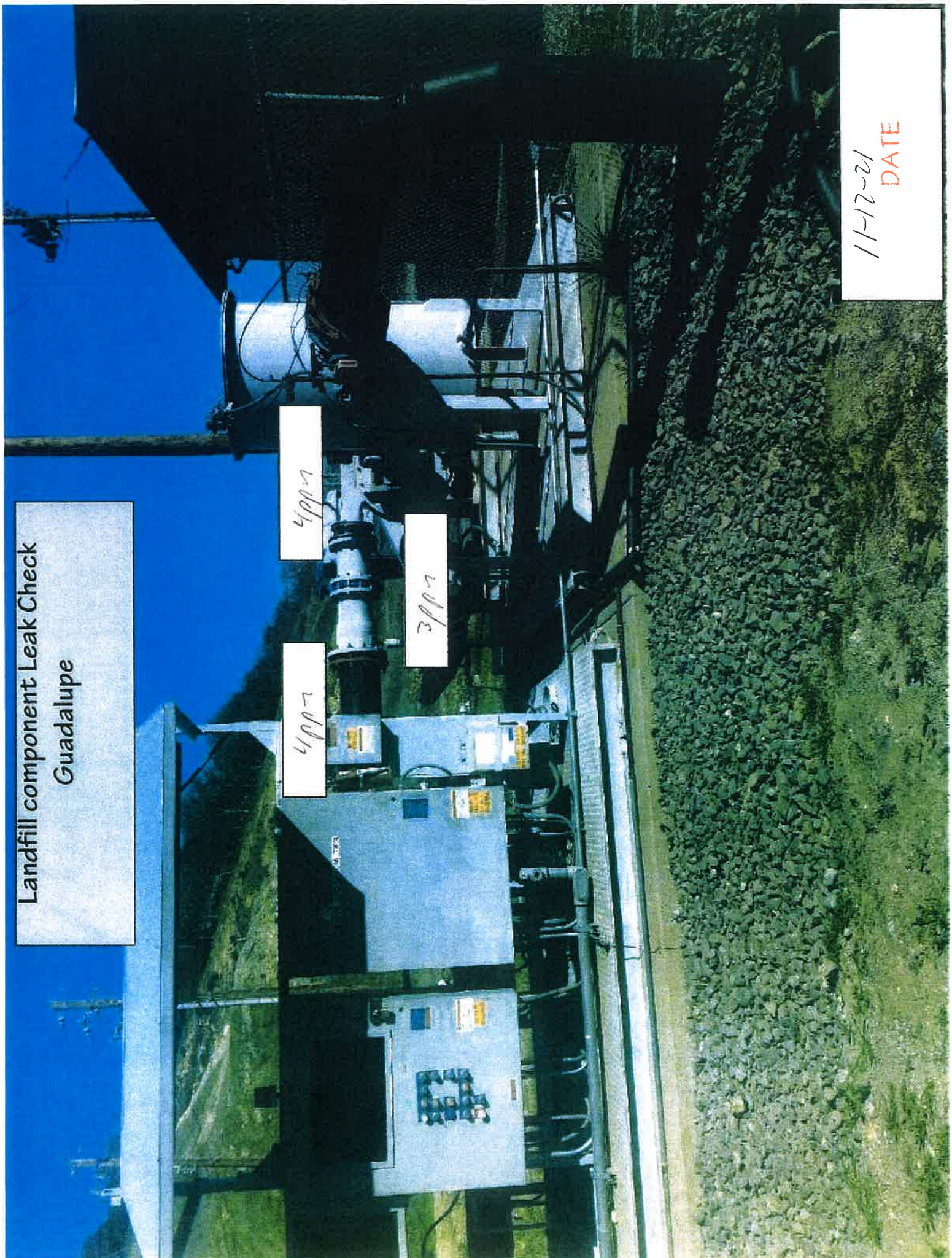
Landfill component Leak Check  
Guadalupe

4997

4997

3997

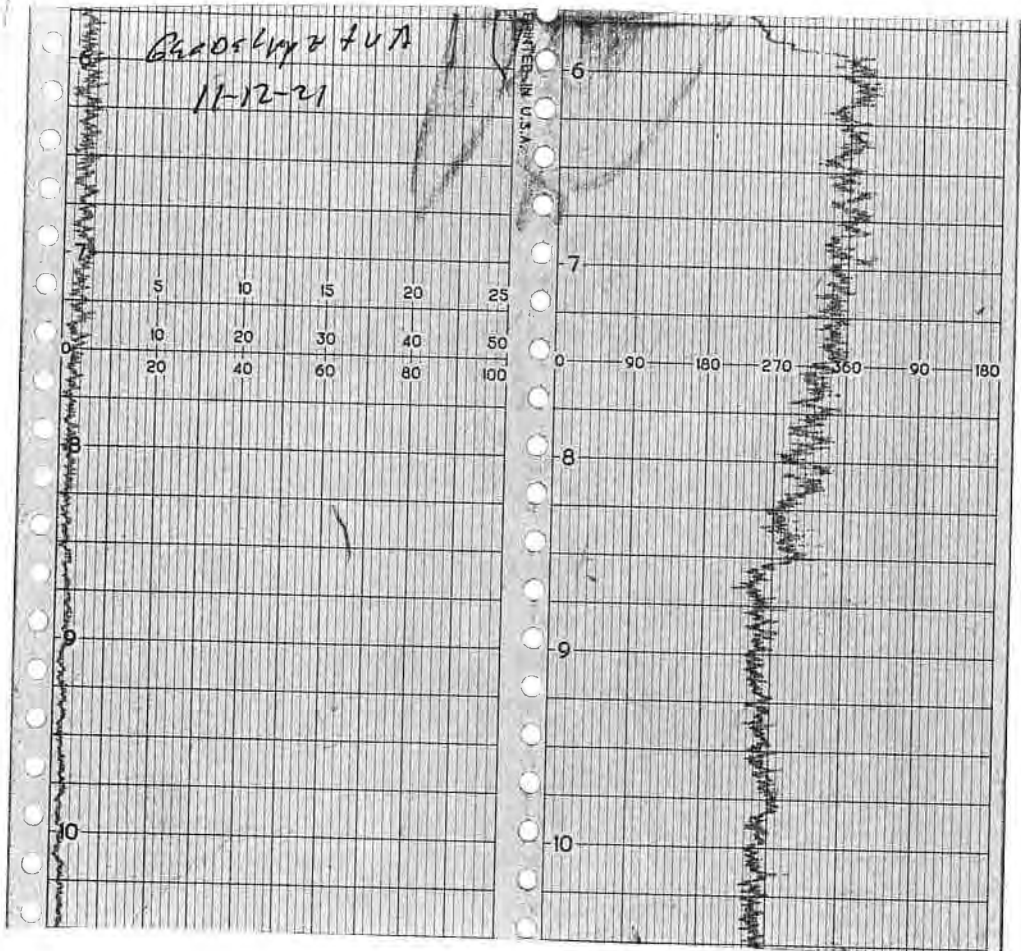
1/12/21  
DATE



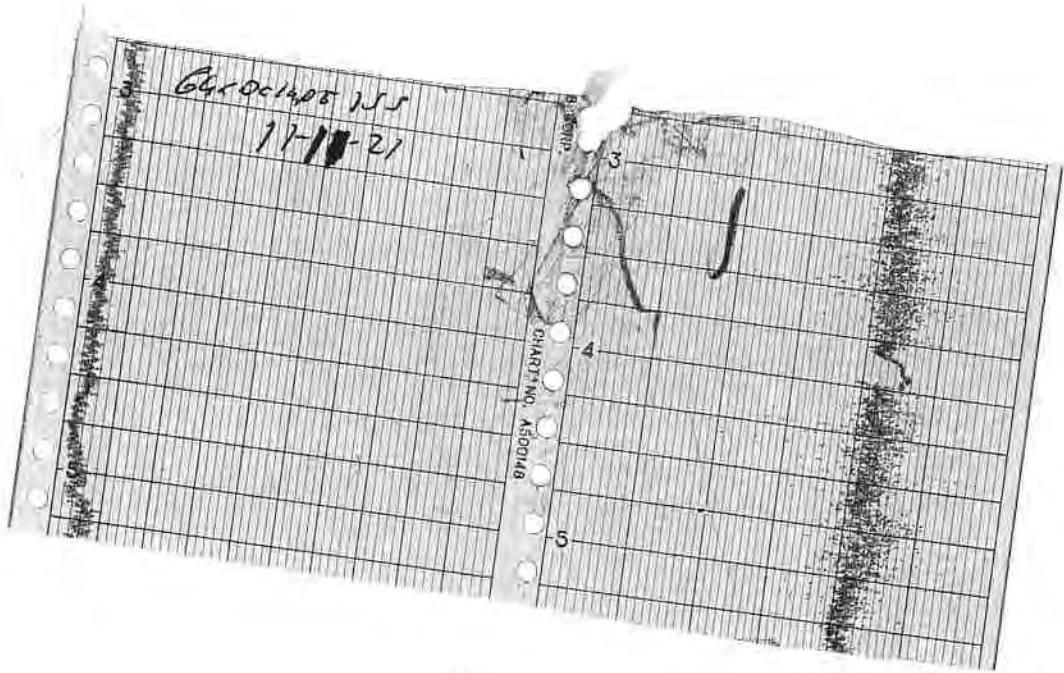


**Attachment D**  
Weather Station Data

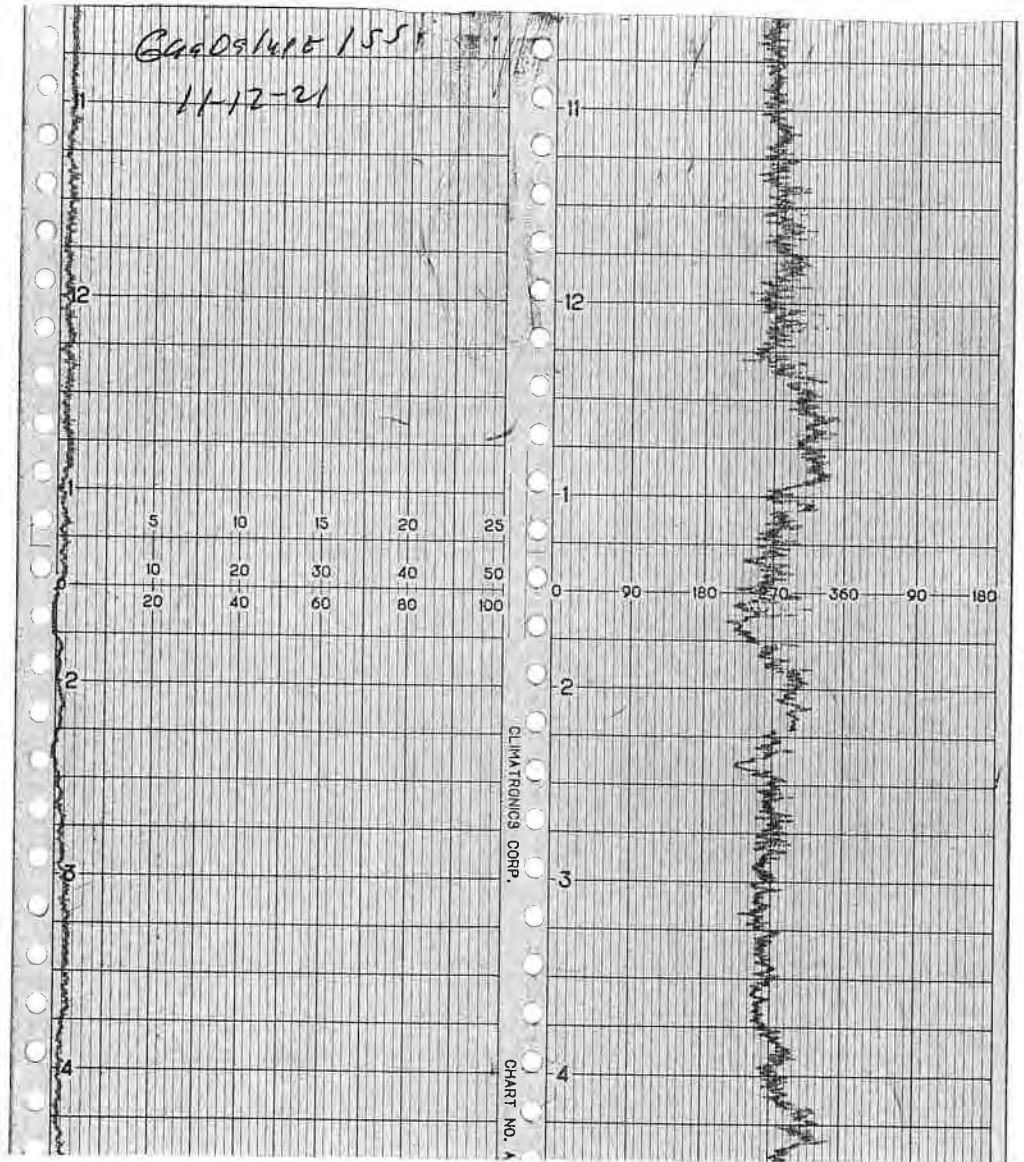
# WIND SPEED & DIRECTION CHART ROLL



# WIND SPEED & DIRECTION CHART ROLL



# WIND SPEED & DIRECTION CHART ROLL





16-POINT WIND DIRECTION INDEX

<u>NO</u>	<u>DIRECTION</u>	<u>DEGREES</u>		
		<u>FROM</u>	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>369.0</u>	0.0
1	NORTH-NORTHEAST (NNE)	011.3	<u>022.5</u>	033.8
2	NORTHEAST (NE)	033.8	<u>045.0</u>	056.3
3	EAST-NORTHEAST (ENE)	056.3	<u>067.5</u>	078.8
4	EAST (E)	078.8	<u>090.0</u>	101.3
5	EAST-SOUTHEAST (ESE)	101.3	<u>112.5</u>	123.8
6	SOUTHEAST (SE)	123.8	<u>135.0</u>	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	<u>180.0</u>	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
10	SOUTHWEST (SW)	213.8	<u>225.0</u>	236.3
11	WEST-SOUTHWEST (WSW)	236.3	<u>247.5</u>	258.8
12	WEST (W)	258.8	<u>270.0</u>	281.3
13	WEST-NORTHWEST (WNW)	281.3	<u>292.5</u>	303.8
14	NORTHWEST (NW)	303.8	<u>315.0</u>	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337.5</u>	348.8

**Attachment E**  
Calibration Records



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 10

SERIAL NUMBER: 1036346773

TECHNICIAN: M. Roberts DATE: 10-2-21

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,006	+/- 2500
< 1	ZERO GAS	0.74	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit # 11

SERIAL NUMBER: 1036346774

TECHNICIAN: M. ABERS

DATE: 10-2-21

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.61	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.





# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit # 12

SERIAL NUMBER: 1036246741

TECHNICIAN: M. RUBIN DATE: 10-2-21

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,003	+/- 2500
< 1	ZERO GAS	0.04	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES UNIT #13

SERIAL NUMBER: 1102746775

TECHNICIAN: M. MIZUS DATE: 10-2-21

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.72	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100	/	+/- 25
500	500	/	+/- 125
< 1	ZERO GAS	/	< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.

**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: MM

Date: 11-6-21 Time: 0900

Model # YCA 1000B

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.4</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>10-2-21</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>5</u>		
		2. <u>5</u>		
		3. <u>6</u>		
		Average <u>5.3</u>		
		Equal to or less than 30 seconds?	<input checked="" type="radio"/>	N
		Instrument calibrated to <u>city</u> gas.		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator:                     *SM*                    

Date:           11-6-21                     Time:           0915                    

Model #           7VA 1000 B                    

Serial #           #11 1036346774                    

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.5</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>10-2-21</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>6</u>	
		2.	<u>6</u>	
		3.	<u>6</u>	
		Average	<u>6.0</u>	
		Equal to or less than 30 seconds?	<u>Y</u>	N
		Instrument calibrated to	<u>CU</u>	gas.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SURFACE EMISSION MONITORING INSTRUMENT  
CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator:                     J M M                    

Date:           11-6-21                     Time:           0930                    

Model #           TVA 100013                    

Serial #           #12 1036246741                    

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.6</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>10-2-21</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>6</u>		
		2. <u>6</u>		
		3. <u>6</u>		
		Average <u>6.0</u>		
		Equal to or less than 30 seconds?	<input checked="" type="checkbox"/>	N
		Instrument calibrated to <u>CH<sub>4</sub></u> gas.		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator:                     JW My                    

Date:           11-6-21           Time:           0945          

Model #           YCA 1000B          

Serial #           #13 1102746775          

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.4</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>900</u>	<u>900</u>	<u>100%</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>900</u>	
Date of last factory calibration	<u>10-2-21</u>	90% of Calibration Gas, ppm	<u>810</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>5</u>	
		2.	<u>6</u>	
		3.	<u>6</u>	
		Average	<u>5.6</u>	
		Equal to or less than 30 seconds?	<input checked="" type="checkbox"/>	N
		Instrument calibrated to	<u>clean</u>	gas.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



# INTERMOUNTAIN SPECIALTY GASES

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800-552-5003 • www.isgases.com

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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Air - Zero		
THC	< 2 PPM	
Oxygen	20.9%	± 2%
Nitrogen	Balance	

<b>Lot #</b>	<b>19-6779</b>
--------------	----------------

Mfg. Date: 4/3/2019  
Parent Cylinder ID Number: 001739, 02268

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

This mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart  
Quality Assurance Manager  
800-552-5003  
Certificate Date: 4/3/2019

Concentration (Mole%) Accuracy  
- 20.9% Oxygen  
- Bal. Nitrogen

Exp Date  
6/26/2023

100 TFF and 1,000 PSIG

103 L

10000 Avenue, Irvine, CA 92614  
Tel (949) 251-8150 Fax (949) 757-0363

CONTAINS GAS UNDER PRESSURE  
Read label before use. Do not use if cylinder pressure is low.  
Do not handle until all leaks are repaired.  
Use a back flow preventer on the cylinder. Close valve after use.  
Data Sheet (DS) before use.  
Dispose of contents according to local, state, and federal regulations.  
DO NOT REMOVE THIS LABEL  
Federal law forbids tampering with this container. To do so may be a criminal offense.



103 L COA  
Lot# 10-6778



10000M-1102  
10000M-104  
DO NOT REMOVE THIS LABEL  
FEDERAL LAW FORBIDS TAMPERING WITH THIS CONTAINER





# INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
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Mfg. Date: 10/16/2017

Parent Cylinder ID 17161

Number:

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017

ProSupply Service INC.

Concentration (Mole%) Accuracy +/- 5%

(CH<sub>4</sub>) - 25 ppm  
- Balance

Methane



CONTAINS GAS UNDER PRESSURE  
Read label before use. Use label at hand. Use appropriate safety equipment.  
Do not handle until all safety instructions are read.  
Use a back flow preventer when connecting to equipment. Close valve after use.  
Dispose of content under pressure.  
DO NOT REMOVE THIS LABEL  
Federal law forbids transportation of compressed gases in containers not certified for use (49 CFR 178.33-1, 178.33-2, 178.33-3, 178.33-4, 178.33-5, 178.33-6, 178.33-7, 178.33-8, 178.33-9, 178.33-10, 178.33-11, 178.33-12, 178.33-13, 178.33-14, 178.33-15, 178.33-16, 178.33-17, 178.33-18, 178.33-19, 178.33-20, 178.33-21, 178.33-22, 178.33-23, 178.33-24, 178.33-25, 178.33-26, 178.33-27, 178.33-28, 178.33-29, 178.33-30, 178.33-31, 178.33-32, 178.33-33, 178.33-34, 178.33-35, 178.33-36, 178.33-37, 178.33-38, 178.33-39, 178.33-40, 178.33-41, 178.33-42, 178.33-43, 178.33-44, 178.33-45, 178.33-46, 178.33-47, 178.33-48, 178.33-49, 178.33-50, 178.33-51, 178.33-52, 178.33-53, 178.33-54, 178.33-55, 178.33-56, 178.33-57, 178.33-58, 178.33-59, 178.33-60, 178.33-61, 178.33-62, 178.33-63, 178.33-64, 178.33-65, 178.33-66, 178.33-67, 178.33-68, 178.33-69, 178.33-70, 178.33-71, 178.33-72, 178.33-73, 178.33-74, 178.33-75, 178.33-76, 178.33-77, 178.33-78, 178.33-79, 178.33-80, 178.33-81, 178.33-82, 178.33-83, 178.33-84, 178.33-85, 178.33-86, 178.33-87, 178.33-88, 178.33-89, 178.33-90, 178.33-91, 178.33-92, 178.33-93, 178.33-94, 178.33-95, 178.33-96, 178.33-97, 178.33-98, 178.33-99, 178.33-100).

Pressure 3.67<sup>PSI</sup> @ 70°F and 1,000 PSIG

Exp Date 7/10/2024

Lot#: 17-6074

P/N: 23-0025

103 L

Kaiser Avenue, Irvine, CA 92614  
Tel: (949) 253-4353 or (800) 201-8150 Fax (949) 757-0363

103-23-0025  
Methane 25 ppm/  
Oxygen 20.9% / Nitrogen

103 L

Lot # 17-6074



COA



2 of 2



# INTERMOUNTAIN SPECIALTY GASES

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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
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Mfg. Date: 10/16/2017

Parent Cylinder ID 17161

Number:

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017

MicroSupply Service INC.

Concentration (Mole%) Accuracy  
Methane (CH<sub>4</sub>) - 25 ppm  
Balance +/- 5%

Methane



CONTAINS GAS  
Read label before use  
Do not handle until wearing protective glasses  
Use a back flow preventer slowly. Check for leaks in sunlight when using  
Dispose of contents  
DO NOT REMOVE  
Federal law forbids  
5124. Federal

Contents: 3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
4/27/2025

Lot#: 17-6074

P/N:23-0025

103 L

1031 Kaiser Avenue, Irvine, CA 92614  
757-0363 or (800) 201-8150 Fax (949) 757-0363

103-23-0025  
Methane 25 ppm/  
Oxygen 20.9%/ Nitrogen

103 L

Lot #  
17-6074



DOT SP 11323 NRC 1100/1505M-1102  
TC-SU6495 NRC 76/104

# Intermountain Specialty Gases

520 N. Kings Road  
Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



## CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

**Lot #** 20-7497  
**Mfg. Date:** 7/10/2020  
**Expiration Date:**  
**Transfill Date:** see cylinder  
**Parent Cylinder ID Number:** TWC001763

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

**Analysis By:** Tony Janquart  
**Title:** Quality Assurance Manager  
**Certificate Date:** 7/10/2020



Concentration (Mole%) Accuracy  
+/- 2%

800 ppm  
Balance

Exp Date  
7/10/2024

70°F and 1,000 PSIG

Lot#: 20-7497

P/N:23-0500

**103 L**

Avenue, Irvine, CA 92614  
Fax (800) 201-8150 Fax (949) 757-0363

Methane (0.5%)



WA

CONTAINS GAS UNDER PRESSURE  
Read label before use. Keep out of reach of children. Keep label at hand. Use equipment according to instructions.

Do not handle until all safety precautions are read. Wear protective gloves, protective clothing.

Use a back flow preventive device in the line. Open slowly. Close valve after each use. Store in a cool, dry place, away from sunlight when ambient temperature is above 50°F.

Dispose of content and/or container in accordance with applicable regulations.

DO NOT REMOVE THIS PRODUCT LABEL

Federal law forbids transportation of this product in a motor vehicle (49 CFR 173.301). Federal law prohibits selling this product in a motor vehicle.

103-23-0500  
800 ppm/  
Nitrogen

**103 L**

Lot #  
20-7497



4 of 4



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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	500 ppm	± 2%
Air	Balance	

<b>Lot #</b>	<b>19-6955</b>
--------------	----------------

Mfg. Date: 7/24/2019

Parent Cylinder ID 001763

Number:

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 7/24/2019



Concentration (Mole%) Accuracy  
800 ppm  
Balance +/- 2%

70°F and 1,000 PSIG

Exp Date  
11/7/2023

Lot#: 19-6955

P/N: 23-0500

**103 L**

Irvine, CA 92614  
201-8150 Fax (949) 757-0368

Methane (0.001)



CONTAINS GAS UNDER PRESSURE  
Read label before use. Keep label at hand. Use equipment in accordance with label instructions.  
Do not handle until all safety precautions are read and understood. Use protective gloves, protective eyewear, and a back flow preventer during use. Close valve after use. Do not use in sunlight when ambient temperature is above 50°F.  
Dispose of contents and container in accordance with applicable regulations. DO NOT REMOVE THIS LABEL.  
Federal law (Public Law 104-188, 112 Stat. 853) prohibits the sale, distribution, and use of certain hazardous materials (including this gas) unless the container is properly labeled in accordance with 49 CFR 171.15-171.16. Federal law prohibits the use of this gas in certain applications.

23-0500  
500 ppm/  
0.9% Nitrogen

**103 L**

Lot #  
19-6955



DIT SP 11323 NRC 1100/1505M-1102  
TC-SU6495 NRC 76/104

**CAUTION**  
FEDERAL LAW FORBIDS  
TRANSPORTATION IF  
REFILLED-PENALTY UP  
TO \$500,000 FINE AND  
3 YEARS IMPRISONMENT



# Intermountain Specialty Gases

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Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



## CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

**Lot #** 18-6641

Mfg. Date: 12/18/2018

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID  
Number: 001763

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart  
Title: Quality Assurance Manager  
Certificate Date: 12/18/2018

Wire Supply & Service  
INC

Concentration (Mole%) Accuracy

(CH<sub>4</sub>) - 500 ppm  
v: Balance

+/- 2%

3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
6/26/2023



103 L

1781 Kaiser Avenue, Irvine, CA 92614  
757-0353 or (800) 201-8150 Fax (949) 757-0363

500 ppm/  
Nitrogen

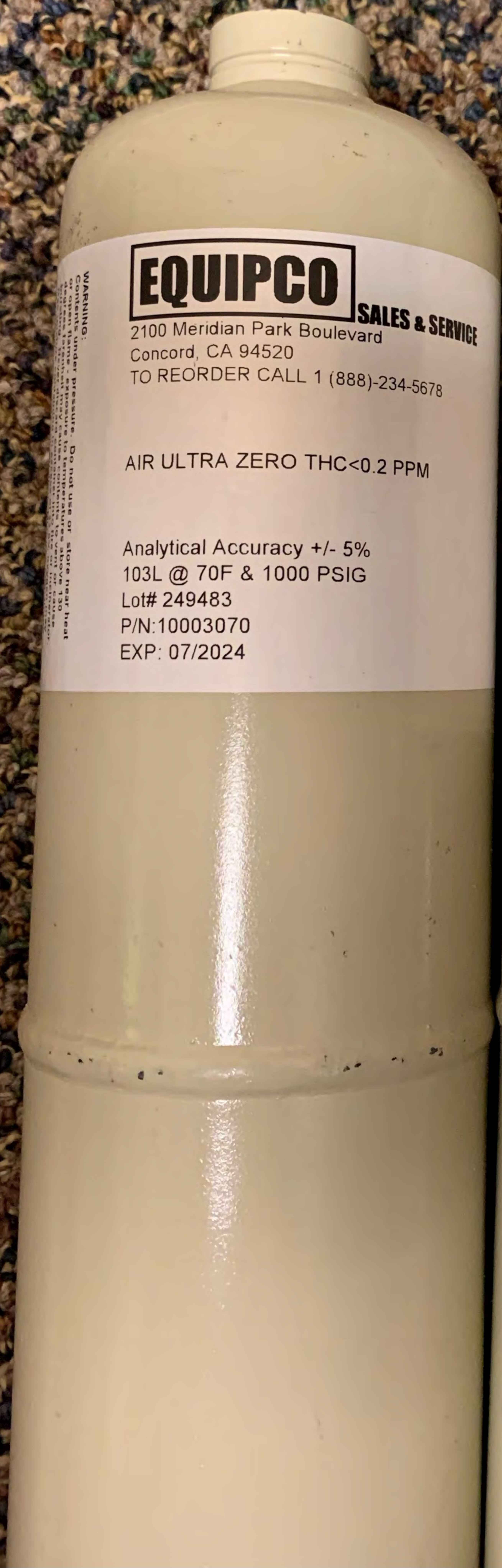
103 L

COA



Lot #  
18-6641

NRC 1100/1505M-1102  
NRC 76



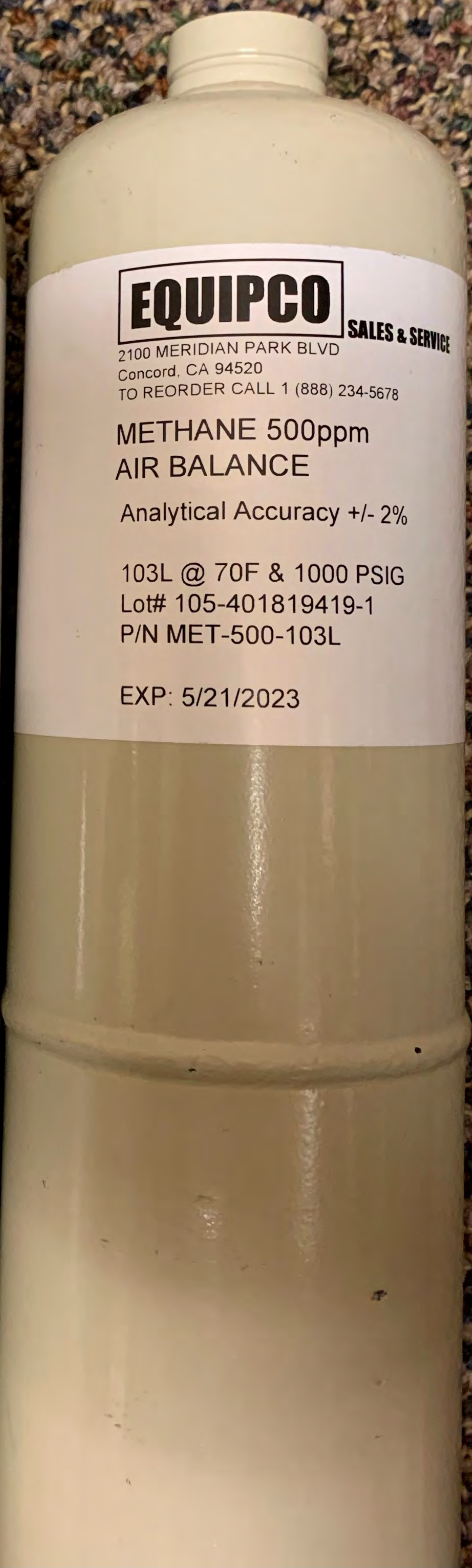
**EQUIPCO** SALES & SERVICE

2100 Meridian Park Boulevard  
Concord, CA 94520  
TO REORDER CALL 1 (888)-234-5678

WARNING:  
Contents under pressure. Do not use or store near heat  
or open flame. Exposure to temperature extremes may  
cause rupture or leakage of contents. Do not use if  
damaged or leaking. For more information, contact  
EQUIPCO at 1 (888) 234-5678.

AIR ULTRA ZERO THC<0.2 PPM

Analytical Accuracy +/- 5%  
103L @ 70F & 1000 PSIG  
Lot# 249483  
P/N:10003070  
EXP: 07/2024



**EQUIPCO** SALES & SERVICE

2100 MERIDIAN PARK BLVD  
Concord, CA 94520  
TO REORDER CALL 1 (888) 234-5678

METHANE 500ppm  
AIR BALANCE

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG  
Lot# 105-401819419-1  
P/N MET-500-103L

EXP: 5/21/2023

## RESPONSE TIME TEST RECORD

Date: 11/18/21

Expiration Date (3 months): \_\_\_\_\_

Time: ~~09:00~~ AM 3:30 (PM)

Instrument Make: TVA Model: 1000 S/N: 0936338909

Measurement #1:

Stabilized Reading Using Calibration Gas: 498 ppm  
90% of the Stabilized Reading: 448 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 3 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 502 ppm  
90% of the Stabilized Reading: 452 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 3 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 501 ppm  
90% of the Stabilized Reading: 451 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 3 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \frac{3 + 3 + 3}{3} = \underline{3} \text{ seconds (must be less than 30 seconds)}$$

Performed By: J Dutra

## CALIBRATION PRECISION TEST RECORD

Date: 11/18/21

Expiration Date (3 months): \_\_\_\_\_

Time: \_\_\_\_\_ AM 3:30 PM

Instrument Make: TVA Model: 1000 S/N: 0936339909

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 499 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 501 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 502 ppm (f)

Calculate Precision:

$$\frac{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|}{3} \times \frac{1}{500} \times 100$$

\_\_\_\_\_ % (must be < than 10%)

Performed By: J Putra

**CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION  
REPORT**

Landfill Name: Guadalupe Date: 11/19/21  
Time: 9:30 AM PM  
Instrument Make: Thermo Model: TVA 1000 B S/N: 0936338909  
81020

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.  
Stable Reading = 500 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \text{ Background} = \underline{0} \text{ ppm}$$

Performed By: Tino R.

CAP/

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Cundalupa Date: 12/6/21  
Time: 0650 AM \_\_\_\_\_ PM  
Instrument Make: Thermo Model: TVA-10006 S/N: 0936338109

## Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.  
Stable Reading = 498 ppm
3. Adjust meter to read 500 ppm.

## Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 0 ppm (a)
2. Downwind Reading (highest in 30 seconds): 0 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{0} \text{ ppm}$$

Performed By: Tino Rodas

## **APPENDIX I**

### **MONTHLY SOLID WASTE PLACEMENT TOTALS**



**Guadalupe Recycling & Disposal Facility, San Jose, CA**  
**Solid Waste Placement Totals**  
**October 1, 2021 through March 31, 2022**

<b>Month</b>	<b>Decomposed Waste Disposed in tons</b>	<b>During Reporting Period</b>
Oct-21	9,350	54,548
Nov-21	9,641	
Dec-21	8,698	
Jan-22	9,133	
Feb-22	8,366	
Mar-22	9,359	

**APPENDIX J**

**WELLFIELD MONITORING LOGS**

**Guadalupe Recycling & Disposal Facility, San Jose, CA**

Wellfield Monitoring Report -October 5, 6, 7, 8, 11, 12, and 13, 2021

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	10/7/2021 13:42	2.8	2.8	20.5	73.9	83.1	82.9	-1.12	-1.09
GDLC0188	10/7/2021 13:45	1.3	1.1	21.3	76.3	81.6	81.6	-1.04	-1.03
GDLC0189	10/7/2021 13:53	51.6	39	0.2	9.2	137.5	137.6	-0.11	-0.07
GDLC0190	10/12/2021 9:19	46.7	46.1	0.0	7.2	128.6	129.1	-8.41	-9.01
GDLC0191	10/5/2021 13:46	49.2	41.4	0.7	8.7	124.9	124.9	-1.64	-1.64
GDLC0192	10/5/2021 14:01	42.4	43.7	0.0	13.9	127.5	127.3	-6.34	-4.44
GDLC0193	10/6/2021 13:45	41.3	36.9	0.1	21.7	129.4	128.3	-0.1	-0.06
GDLC0196	10/8/2021 12:44	59.6	40.4	0.0	0	102.4	102.5	-1.61	-1.69
GDLC0197	10/12/2021 8:03	34.4	34.1	0.0	31.5	118.1	118	-0.8	-0.8
GDLC0232	10/8/2021 13:13	55.9	44.1	0.0	0	113.1	113.1	-0.26	-0.27
GDLC0233	10/8/2021 12:39	49.6	37.1	1.6	11.7	108.7	109.2	-0.66	-0.69
GDLC0233	10/8/2021 12:40	48.9	36.9	1.6	12.6	109.6	109.8	-0.63	-0.65
GDLC0234	10/7/2021 13:22	31.1	34.1	0.0	34.8	118.5	118.5	-0.06	-0.06
GDLC0235	10/5/2021 13:38	54.9	41.7	0.2	3.2	124.4	124.5	-32.2	-32.26
GDLC0236	10/8/2021 16:23	52.3	43.7	0.0	4.0	124.4	124.6	-0.46	-0.44
GDLC0237	10/6/2021 13:57	55.5	41.5	0.1	2.9	123.2	124.9	-1.51	-2.09
GDLC0238	10/7/2021 13:05	17.5	28.2	0.0	54.3	110.8	110.6	-0.16	-0.01
GDLC0239	10/5/2021 11:09	26	30	0.0	44	111.5	111.6	-0.35	-0.35
GDLC0240	10/5/2021 11:00	36.4	36.4	3.1	24.1	117.7	117.8	-0.76	-0.76
GDLC0241	10/5/2021 13:10	46.5	42.7	0.0	10.8	124.9	124.9	-1.61	-1.59
GDLC0242	10/8/2021 15:50	53.6	46.4	0.0	0	124.6	124.6	-43.81	-43.8
GDLC0242	10/8/2021 15:57	53.3	46.7	0.0	0	124.8	124.8	-34.22	-34.22
GDLC0243	10/5/2021 12:47	44.9	37.4	0.2	17.5	103.9	104	-0.18	-0.18
GDLC0244	10/7/2021 13:13	25.5	31.8	0.0	42.7	116.3	115.1	-0.11	-0.04
GUAD0062	10/5/2021 9:53	46.2	36.7	0.0	17.1	95.2	95.1	-2	-1.97
GUAD0065	10/6/2021 12:53	47.2	38.6	0.2	14.0	114.4	114.4	-41.4	-41.44
GUAD0065	10/6/2021 12:56	46.9	38.4	0.2	14.5	115.3	115.5	-41.52	-42.23
GUAD0066	10/6/2021 12:39	39.0	32.7	0.1	28.2	105.1	105.1	-3.42	-3.39
GUAD0081	10/8/2021 8:53	50.6	40.6	1.7	7.1	104.8	103.7	-48.29	-48.5
GUAD0082	10/8/2021 8:29	46.9	36.4	0.6	16.1	101.1	100.9	-12.71	-12.5
GUAD0112	10/6/2021 13:20	44.3	34.5	0.0	21.2	125.4	125.4	-0.04	-0.03
GUAD0114	10/13/2021 11:37	55.2	43.7	0.0	1.1	133.3	133.4	-5.36	-5.37
GUAD0122	10/12/2021 14:31	55.8	44.2	0.0	0.0	135	135	-35.84	-36.25
GUAD0124	10/5/2021 13:43	55.3	42	0.1	2.6	129.9	130	-30.07	-30.09
GUAD0129	10/5/2021 13:18	57.2	40.7	0.0	2.1	108	108	-41.96	-41.94
GUAD0131	10/12/2021 7:19	59.3	40.7	0.0	0	116.4	116.4	-46.2	-46.27
GUAD0134	10/5/2021 10:36	46.5	37.4	0.0	16.1	124.4	124.3	-0.98	-0.96
GUAD0135	10/5/2021 10:44	52.9	40.5	0.0	6.6	131.9	132	-1.74	-1.74
GUAD0138	10/6/2021 12:45	28.2	30.7	0.0	41.1	99.7	99.5	-0.91	-0.83
GUAD0142	10/6/2021 12:34	45.4	31.9	0.4	22.3	99.4	99.5	-4.42	-4.42
GUAD0146	10/11/2021 15:09	56.8	43.2	0.0	0.0	127.1	126.6	-35.37	-35.96
GUAD0147	10/8/2021 13:01	56.2	43.8	0.0	0.0	116.8	116.9	-7.04	-7
GUAD0151	10/7/2021 13:33	59.7	34.9	0.0	5.4	85	86.6	0.14	0.14
GUAD0151	10/7/2021 13:36	60.4	34.4	0.0	5.2	84.9	84.8	0.16	0.16

GUAD0151	10/19/2021 12:45	60.8	37.6	0	1.6	77.9	77.5	5.13	5.14
GUAD0152	10/7/2021 15:34	56.5	41.3	0.2	2.0	124.9	124.9	-18.59	-19.89
GUAD0154	10/6/2021 14:08	56.5	41	0.7	1.8	136	135.8	-14.53	-13.86
GUAD0161	10/12/2021 17:41	49.8	35.7	0.1	14.4	139.7	139.6	-21.22	-21.22
GUAD0162	10/12/2021 17:48	51.7	40	0.1	8.2	144.8	144.7	-41.72	-42.49
GUAD0172	10/8/2021 9:37	57	41.8	0.0	1.2	111.3	111.3	-2.66	-2.74
GUAD0173	10/8/2021 9:47	55.4	42.7	0.0	1.9	106	105.9	-0.05	-0.06
GUAD0176	10/8/2021 12:55	55.5	44.5	0.0	0.0	108.5	108.5	-1.27	-1.24
GUAD0177	10/8/2021 13:09	55.4	44.6	0.0	0.0	128.6	128.7	-9.51	-10.7
GUAD0178	10/7/2021 15:38	52.2	40.1	1.6	6.1	121.5	121.4	-43.84	-44.64
GUAD0179	10/7/2021 15:48	24.1	27.5	0.0	48.4	103.5	103.3	-0.59	-0.57
GUAD0180	10/7/2021 16:00	46.8	40.1	1.7	11.4	129.4	129.2	-40.1	-40.07
GUAD0181	10/12/2021 9:55	52.6	47.4	0.0	0.0	111.1	110.1	-39.53	-38.41
GUAD0183	10/5/2021 13:34	54.4	41.9	0.0	3.7	125.0	125.0	-35.42	-35.4
GUAD0184	10/6/2021 13:38	41.7	41.9	0.3	16.1	126.8	125.3	-30.56	-9.46
GUAD0185	10/6/2021 13:51	50.8	39.3	0.1	9.8	137.9	138.1	-0.4	-0.29
GUAD0186	10/6/2021 13:41	45.1	41.2	0.5	13.2	133.0	133.0	-17.21	-17.19
GUAD0187	10/5/2021 14:04	43.8	43.7	0.6	11.9	124.0	124.0	-33.93	-33.92
GUAD0198	10/7/2021 15:51	47.9	38.3	0.0	13.8	123.8	123.8	-2.58	-2.57
GUAD0199	10/7/2021 15:44	41.5	35.5	0.8	22.2	130.2	130.5	-32.95	-27.94
GUAD0200	10/7/2021 15:29	57.5	39.9	0.0	2.6	134.1	134.1	-15.31	-15.26
GUAD0200	10/12/2021 16:24	58.6	39.5	0.0	1.9	130.5	132.3	-5.94	-5.89
GUAD0200	10/12/2021 16:26	CO was 0 ppm							
GUAD0201	10/7/2021 13:27	54.2	42.2	0.7	2.9	81.4	81.4	-17.05	-17.03
GUAD0202	10/12/2021 8:16	45.9	38.6	0.0	15.5	123	122.9	-1.18	-1.17
GUAD0203	10/8/2021 13:21	52.2	47.8	0.0	0.0	119.5	119.4	-32.76	-32.76
GUAD0204	10/7/2021 14:05	53.5	43.7	0.1	2.7	130.9	130.9	-29.14	-29.77
GUAD0205	10/7/2021 13:57	54.3	45.3	0.0	0.4	132.1	133.8	-0.01	-0.03
GUAD0207	10/8/2021 11:07	44.8	55.2	0.0	0.0	125.3	125.7	-0.05	-0.04
GUAD0208	10/8/2021 10:57	49.5	50.5	0.0	0.0	129.9	130.0	-0.06	-0.05
GUAD0209	10/12/2021 14:29	53.1	46.9	0.0	0.0	111.1	115.0	-0.06	-0.09
GUAD0211	10/12/2021 8:49	44.0	42.4	0.0	13.6	121.0	121.2	-0.63	-0.64
GUAD0213	10/12/2021 8:57	48.4	43.1	0.0	8.5	124.3	124.2	-24.19	-24.19
GUAD0214	10/12/2021 8:30	45.3	41.2	0.0	13.5	128.3	128.4	-4.34	-4.99
GUAD0215	10/11/2021 15:16	46.7	42	0.0	11.3	129.5	128.5	-0.74	-0.72
GUAD0216	10/12/2021 9:15	47.8	44.9	0.0	7.3	122.6	122.1	-0.49	-0.49
GUAD0217	10/5/2021 13:50	45.3	41.1	0.8	12.8	131.3	131.3	-2.49	-2.48
GUAD0217	10/5/2021 14:50	34.7	37	0.0	28.3	128.5	128.5	-5.1	-5.12
GUAD0217	10/5/2021 14:52	CO was 10 ppm							
GUAD0217	10/8/2021 16:13	49.6	42.4	0.0	8.0	129.8	129.9	-0.74	-0.79
GUAD0217	10/8/2021 16:15	CO was 0 ppm							
GUAD0218	10/5/2021 13:54	30.2	34.3	0.0	35.5	127.8	127.7	-1.02	-0.99
GUAD0218	10/6/2021 14:12	46.0	40.4	0.1	13.5	132.3	132.3	-0.69	-0.68
GUAD0218	10/8/2021 16:07	44.8	41.1	0.0	14.1	111.7	111.5	-0.15	-0.16
GUAD0218	10/8/2021 16:08	CO was 0 ppm							
GUAD0219	10/5/2021 12:55	45.8	39.0	0.2	15.0	124.0	124.0	-1.33	-1.35
GUAD0220	10/12/2021 7:27	47.0	41.0	0.0	12.0	124.3	124.4	-36.38	-36.37
GUAD0221	10/8/2021 9:55	55	43.9	0.0	1.1	115.9	116.1	-0.07	-0.09

GUAD0222	10/5/2021 10:11	35.2	31.0	0.0	33.8	114.4	114.6	-0.1	-0.12
GUAD0223	10/5/2021 10:21	33.4	32.9	0.0	33.7	121.2	121.2	-0.12	-0.12
GUAD0224	10/5/2021 10:30	21.5	27.2	0.0	51.3	114.1	114.1	-0.19	-0.19
GUAD0225	10/6/2021 13:12	48.3	36.1	0.0	15.6	119.9	120.1	-0.09	-0.09
GUAD0226	10/12/2021 7:44	47.7	40.5	0.0	11.8	122.2	122.2	-23.81	-24.6
GUAD0227	10/6/2021 13:00	44.9	35.9	0.0	19.2	120.2	120.2	-0.69	-0.69
GUAD0228	10/7/2021 15:08	42.9	35.1	0.0	22	114.1	113.7	-0.01	-0.01
GUAD0230	10/5/2021 10:03	45.4	35	0.0	19.6	113	113	-0.27	-0.26
GUADH11L	10/8/2021 9:03	46.1	30.5	4.3	19.1	73	73.8	-3.31	-3.3
GUADH12L	10/8/2021 8:16	20.3	12.7	12.7	54.3	54.6	53.1	-2.78	-2.72

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218, are approved to  
There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

**Guadalupe Recycling & Disposal Facility, San Jose, CA**

Wellfield Monitoring Report -November 1, 2, 3, 4, 8, 9, 10, 15, and 18, 2021

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	11/15/2021 15:27	53.5	46.1	0	0.4	128.7	128.6	-8.63	-10.29
GDLC0188	11/15/2021 15:30	New collection system installed;NSPS/EG Corrective Action Completed (CAC)							
GDLC0189	11/4/2021 15:38	53.6	45.1	0	1.3	125.7	126.5	-2.15	-4.41
GDLC0190	11/4/2021 13:34	52.9	45.5	0	1.6	129.4	129.3	-8.08	-8.08
GDLC0191	11/1/2021 9:06	32.1	38.1	0	29.8	115.9	116.2	-1.19	-1.2
GDLC0192	11/1/2021 9:34	46.7	45.6	0	7.7	125.2	125.4	-4.34	-4.72
GDLC0193	11/10/2021 15:52	54.6	45.3	0.1	0	127.8	126.9	-1.45	-1.47
GDLC0196	11/3/2021 13:45	53.8	42.7	0	3.5	104.3	104.3	-7.72	-7.79
GDLC0197	11/3/2021 11:19	40.4	38.8	0	20.8	123.8	123.9	-0.3	-0.31
GDLC0232	11/3/2021 14:05	52.4	43.7	0	3.9	114.9	115.1	-0.49	-0.53
GDLC0233	11/3/2021 13:50	54.8	43.2	0	2	108.1	109.2	-0.62	-0.64
GDLC0234	11/3/2021 13:10	38.2	37.4	0	24.4	117.8	117.9	-0.36	-0.37
GDLC0234	11/3/2021 13:11	37.4	37.7	0	24.9	117.9	118	-19.97	-0.45
GDLC0235	11/1/2021 9:26	43.1	43.2	0.1	13.6	124	124	-29.7	-29.64
GDLC0236	11/8/2021 10:50	51.4	39.6	0	9	126.7	127.5	-0.35	-0.41
GDLC0237	11/9/2021 9:43	55.8	44.2	0	0	122	120.2	-2.47	-2.81
GDLC0238	11/3/2021 11:55	22.1	32.8	0	45.1	110.2	110.3	-0.12	-0.07
GDLC0239	11/1/2021 11:51	36.3	34.3	0	29.4	111.5	111.5	-0.37	-0.37
GDLC0240	11/1/2021 11:47	54.2	39.2	0	6.6	116.3	115.9	-0.65	-0.54
GDLC0241	11/1/2021 10:15	52.8	44.7	0	2.5	124.2	124.1	-1.8	-1.58
GDLC0242	11/1/2021 10:26	53.7	46	0.1	0.2	117.2	117.4	-43.81	-43.41
GDLC0243	11/1/2021 10:21	54	46	0	0	69.1	74.5	-0.14	-0.11
GDLC0244	11/3/2021 11:47	33.1	38.4	0	28.5	114.4	114.4	-0.15	-0.14
GUAD0062	11/1/2021 12:57	47.9	37.8	0	14.3	92.5	92.5	-1.47	-1.46
GUAD0065	11/3/2021 10:34	52.2	43.4	0	4.4	108.6	108.7	-38.15	-38.14
GUAD0066	11/3/2021 9:58	47.5	38.4	0	14.1	106.3	106.8	-7.92	-8.62
GUAD0081	11/1/2021 7:42	54.3	44.2	0.4	1.1	100.7	100.5	-43.96	-44.23
GUAD0082	11/1/2021 7:34	52.4	35.2	0.1	12.3	100.3	100.8	-11.21	-14.74
GUAD0112	11/3/2021 10:17	45.7	38.1	0	16.2	126.5	126.5	-0.53	-0.54
GUAD0114	11/3/2021 7:50	54.7	42.7	0	2.6	130	130.2	-14.48	-14.49
GUAD0122	11/4/2021 15:06	53.7	46.3	0	0	127.8	127.6	-35.19	-35.09
GUAD0124	11/1/2021 9:10	53.5	46.4	0.1	0	126.5	127.3	-29.47	-29.44
GUAD0129	11/1/2021 10:06	55.9	44.1	0	0	103	103.2	-39.93	-39.95
GUAD0131	11/1/2021 8:39	56	43.9	0.2	-0.1	116.4	116.4	-40.33	-38.91
GUAD0134	11/1/2021 13:03	51.3	40.7	0	8	122.9	122.9	-0.63	-0.63
GUAD0135	11/1/2021 11:57	54.4	42.6	0	3	130.1	129.8	-1.37	-1.37
GUAD0138	11/3/2021 10:02	37.4	33.4	0	29.2	88.4	89.5	-0.26	-0.32
GUAD0142	11/3/2021 9:40	47.1	38.4	0	14.5	104.9	104.7	-3.54	-3.23
GUAD0146	11/8/2021 10:56	56.8	43.2	0	0	126.3	125.1	-33.29	-33.26
GUAD0147	11/3/2021 13:33	54.7	44.1	0	1.2	116.1	116.4	-6.24	-6.88
GUAD0151	11/15/2021 15:21	58.7	41.3	0	0	128.9	128.9	-0.36	-0.4
GUAD0151	11/15/2021 15:25	NSPS/EG Corrective Action Completed (CAC) Collection line added							
GUAD0152	11/4/2021 14:27	56.4	43.3	0.3	0	114.9	115.4	-4.85	-3.89
GUAD0154	11/9/2021 10:20	62.8	37.1	0	0.1	70.4	70.9	-3.45	-3.51

GUAD0161	11/9/2021 9:28	51.7	41.6	0.1	6.6	128.3	128.2	-21.64	-21.64
GUAD0162	11/9/2021 11:04	54	44.1	0	1.9	129.5	129.7	-36.94	-36.92
GUAD0172	11/1/2021 8:18	43.7	33.9	0	22.4	94.4	94.4	-3.19	-3.24
GUAD0173	11/1/2021 8:26	51.1	39.5	0	9.4	101.3	105.2	-0.46	-0.53
GUAD0176	11/3/2021 13:39	52.6	44.2	0	3.2	89.8	91.4	-0.65	-0.65
GUAD0177	11/3/2021 13:57	54.2	45.8	0	0	127.9	128.1	-4.35	-3.71
GUAD0178	11/4/2021 14:33	56.1	43.4	0.5	0	101.7	108.4	-37.99	-38.36
GUAD0179	11/4/2021 14:45	39.3	32.7	0	28	108.4	108.5	-0.08	-0.06
GUAD0180	11/4/2021 14:56	53.9	43.8	0	2.3	128.2	128.8	-32.51	-33.27
GUAD0181	11/4/2021 15:28	53.4	46.6	0	0	127.9	127.7	-33.37	-32.77
GUAD0183	11/1/2021 9:22	54.7	45.2	0.1	0	98.4	99.5	-33.01	-33.07
GUAD0184	11/1/2021 10:00	52.7	47	0	0.3	126	126.2	-3.38	-3.33
GUAD0185	11/9/2021 9:50	56.6	43.4	0	0	129.1	130.4	-0.84	-0.9
GUAD0186	11/11/2021 7:39	48.4	43	0.1	8.5	130.3	130.4	-28.95	-28.98
GUAD0187	11/1/2021 9:38	53.4	46.5	0	0.1	122.9	123	-31.95	-31.96
GUAD0198	11/4/2021 14:51	50.2	38.8	0	11	119.6	119	-1.58	-1.58
GUAD0199	11/4/2021 14:37	51.7	39.6	0	8.7	129.8	129.8	-14.85	-14.83
GUAD0200	11/4/2021 14:15	58.5	41.5	0	0	128.4	128.5	-0.25	-0.51
GUAD0200	11/18/2021 12:45	56.8	43.2	0.1	-0.1	125.5	126.8	-11.86	-12.6
GUAD0200	11/18/2021 12:50	CO was 5 ppm							
GUAD0201	11/3/2021 13:17	53.8	45.6	0.6	0	122.1	122.1	-13.59	-13.58
GUAD0202	11/3/2021 14:22	50.4	41.2	0	8.4	124.3	124.3	-0.57	-0.57
GUAD0203	11/3/2021 11:31	51	45.4	0	3.6	118.9	118.8	-30.52	-30.49
GUAD0204	11/3/2021 13:26	51.4	48.6	0	0	128.4	128.4	-28.46	-28.45
GUAD0205	11/15/2021 15:04	55.7	42.3	0	2	126.3	126.8	-1.69	-1.48
GUAD0207	11/4/2021 15:16	47	44.9	0	8.1	128.4	128.3	-0.12	-0.16
GUAD0208	11/4/2021 15:10	45.2	42.8	0	12	129.8	129.8	-0.21	-0.27
GUAD0209	11/4/2021 15:03	42.8	45.4	0	11.8	124.8	125.1	-0.11	-0.11
GUAD0211	11/9/2021 9:12	45.8	39.6	0	14.6	116.9	116.2	-0.64	-0.65
GUAD0213	11/9/2021 9:36	53.7	44.2	0	2.1	130.5	129.8	-21.91	-21.93
GUAD0214	11/9/2021 9:17	45.6	40.5	0	13.9	99.3	97.7	-6.67	-6.66
GUAD0215	11/4/2021 13:24	52.1	43.1	0.1	4.7	129.1	129.1	-0.22	-0.17
GUAD0216	11/15/2021 15:10	52.6	45.1	0	2.3	129.4	129.4	-2	-1.99
GUAD0217	11/1/2021 13:20	CO was 0 ppm							
GUAD0217	11/1/2021 13:23	48.5	44.4	0	7.1	126.3	126.2	-0.47	-0.46
GUAD0218	11/1/2021 13:11	50.1	42.6	0	7.3	126.5	126.5	-1.11	-1.11
GUAD0218	11/1/2021 13:14	CO was 0 ppm							
GUAD0219	11/1/2021 8:47	48	40	0	12	121.4	122.4	-1.91	-2.47
GUAD0220	11/1/2021 9:52	48.3	44	0	7.7	124.1	124.1	-31.2	-31.18
GUAD0221	11/1/2021 8:34	41.2	39.5	0	19.3	116.7	116.9	-1.61	-1.8
GUAD0222	11/1/2021 12:23	42.7	33.9	0	23.4	113	111.2	-0.28	-0.2
GUAD0223	11/1/2021 12:13	41.7	38.3	0	20	126.8	126.9	-0.53	-0.56
GUAD0224	11/1/2021 12:03	29	32.7	0	38.3	110	110.6	-0.16	-0.17
GUAD0225	11/3/2021 10:11	47.7	40.1	0	12.2	123	123.4	-1.13	-1.24
GUAD0226	11/1/2021 10:52	50.7	42.4	0	6.9	122.5	122.4	-16.56	-17.22
GUAD0227	11/3/2021 10:23	48.4	40.3	0	11.3	121.6	121.7	-1.59	-1.7
GUAD0228	11/3/2021 11:10	44.6	38.4	0	17	114	114.1	-0.27	-0.27

GUAD0230	11/1/2021 12:29	50.7	39.1	0	10.2	111.9	111.7	-0.41	-0.34
GUADH11L	11/1/2021 8:02	50.5	35.9	2.9	10.7	66.4	66.4	-0.58	-0.55
GUADH12L	11/2/2021 7:51	51	31.3	3.3	14.4	55.1	55.1	-0.37	-0.36

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218, are approved to  
There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System



**Guadalupe Recycling & Disposal Facility, San Jose, CA**

Wellfield Monitoring Report -December 1, 2, 3, 6, 10, 14, 15 and 16, 2021

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	12/10/2021 12:02	43.7	40.7	0	15.6	128.4	129.1	-19.33	-19.38
GDLC0189	12/6/2021 13:11	35.6	39.7	0	24.7	129.8	129.1	-13.02	-3.84
GDLC0190	12/6/2021 13:07	32.6	36.8	0	30.6	127.8	125.6	-7.08	-3.67
GDLC0191	12/2/2021 12:54	28.4	35.2	0	36.4	117.4	117.4	-2.98	-2.32
GDLC0192	12/2/2021 13:16	49.3	45.1	0	5.6	126.6	126.3	-4.74	-3.13
GDLC0193	12/6/2021 10:19	37.6	39.3	0	23.1	128.9	127.1	-1.54	-1.43
GDLC0196	12/15/2021 13:29	23.6	25.4	0	51	98.9	98.9	-4.54	-4.53
GDLC0197	12/10/2021 9:01	47.6	35.5	0	16.9	129.8	129	-4.02	-2.55
GDLC0232	12/15/2021 13:04	23.6	28	0	48.4	117.4	117.4	-3.86	-3.86
GDLC0233	12/15/2021 13:18	24.4	28.9	0	46.7	117.1	117.1	-4.91	-4.91
GDLC0234	12/10/2021 9:33	32.6	32.2	0	35.2	116.3	116.3	-0.44	-0.46
GDLC0235	12/2/2021 13:12	45.5	43.6	0	10.9	124.9	124.7	-27.93	-8.25
GDLC0236	12/6/2021 13:25	41.3	41.3	0	17.4	120.7	120.8	-0.2	-0.24
GDLC0237	12/6/2021 10:05	53.9	43.6	0	2.5	90.9	87	-6.14	-4.6
GDLC0238	12/15/2021 12:58	30.3	32.2	0	37.5	110.2	110.6	-0.24	-0.68
GDLC0239	12/15/2021 14:32	49.7	37.3	0	13	112.3	111.8	-0.36	-0.3
GDLC0240	12/15/2021 14:38	57.1	42.9	0	0	115.6	115.7	-0.35	-0.38
GDLC0241	12/2/2021 13:43	54.3	44.2	0	1.5	125.1	124.6	-1.22	-0.54
GDLC0242	12/15/2021 14:17	55.6	44.4	0	0	115.6	114.6	-46.29	-33
GDLC0243	12/2/2021 13:47	52.9	43.4	0	3.7	108.7	108.7	-1.1	-1.05
GDLC0244	12/10/2021 9:19	35.6	35.7	0	28.7	115	115	-0.32	-0.32
GUAD0062	12/3/2021 10:04	50.8	36.4	0	12.8	92.4	91.8	-1.61	-1.51
GUAD0065	12/3/2021 9:43	52.6	39.4	0.2	7.8	109.5	110	-39.61	-39.92
GUAD0066	12/3/2021 9:50	37.6	33.8	0	28.6	112.8	106.2	-12.4	-6.7
GUAD0081	12/1/2021 8:03	55.3	44.4	0.3	0	102.1	100.6	-42.04	-41.42
GUAD0082	12/1/2021 7:54	50.7	38.3	0.1	10.9	100.8	101	-16.86	-16.88
GUAD0112	12/3/2021 9:35	39.8	32.7	0.1	27.4	121.4	121.5	-0.26	-0.25
GUAD0114	12/1/2021 7:46	38.6	36.6	0.2	24.6	126.6	126.2	-13.79	-5.46
GUAD0122	12/6/2021 9:27	56.7	43.3	0.1	-0.1	128.2	126.4	-35.34	-33.98
GUAD0122	12/14/2021 13:05	56.5	43.5	0	0	129.6	129.6	-33.93	-26.32
GUAD0124	12/2/2021 12:59	55.1	44.1	0	0.8	123.5	123.7	-18.54	-18.59
GUAD0129	12/2/2021 13:37	59.3	39.4	0.1	1.2	106.5	106.4	-36.24	-31.89
GUAD0129	12/2/2021 13:39	58.3	40	0	1.7	103.8	104.2	-36.2	-27.58
GUAD0131	12/1/2021 8:50	57.2	42.6	0.2	0	116.9	116.9	-40.58	-38.32
GUAD0134	12/3/2021 10:09	50.9	40.4	0	8.7	123.6	123.6	-0.86	-0.85
GUAD0135	12/15/2021 15:23	57.7	41.7	0	0.6	127.3	124.7	-1.42	-0.85
GUAD0138	12/3/2021 9:54	27	30.6	0	42.4	93.7	93.6	-0.98	-0.98
GUAD0142	12/3/2021 9:59	49.8	37.1	0	13.1	104	102.6	-3.26	-2.5
GUAD0146	12/6/2021 13:30	55.7	44.3	0	0	128.2	127.8	-34.71	-29.15
GUAD0146	12/14/2021 12:42	59.2	40.7	0.1	0	125.4	126.7	-20.88	-20.06
GUAD0147	12/14/2021 13:59	55.6	38.9	0	5.5	110.5	112.2	-9.64	-10.45
GUAD0151	12/10/2021 11:36	57	37.9	0	5.1	128.5	127.8	-22.12	-20.12
GUAD0152	12/14/2021 13:24	56.6	41.7	0.4	1.3	126.5	125.2	-36.72	-37.46
GUAD0154	12/6/2021 10:12	62.3	37.7	0	0	93.9	94.1	-3.69	-3.69

GUAD0161	12/6/2021 9:42	52.4	42	0	5.6	128.6	126.8	-21.17	-16.81
GUAD0162	12/6/2021 9:49	53	44.2	0.1	2.7	130	129	-38.54	-39.21
GUAD0172	12/1/2021 8:22	40.4	34.8	0	24.8	100	100.1	-3.13	-3.1
GUAD0173	12/1/2021 9:42	55.7	44.3	0	0	104.1	104.5	-1.12	-1.13
GUAD0176	12/15/2021 13:11	33.9	33.8	0	32.3	105.5	105.5	-2.96	-2.92
GUAD0177	12/14/2021 13:28	44.7	38.5	0	16.8	127.6	127.8	-34.63	-31.02
GUAD0178	12/6/2021 9:13	55.3	42.7	0.9	1.1	104.1	103.4	-39.09	-38.99
GUAD0179	12/6/2021 9:18	39.9	34.5	0	25.6	108.5	108.4	-0.51	-0.49
GUAD0180	12/14/2021 12:56	51.9	43	0	5.1	100.3	100	-35.68	-34.32
GUAD0181	12/14/2021 12:49	55.9	43.2	0	0.9	126.8	126.2	-32.82	-34.38
GUAD0183	12/2/2021 13:05	55.7	43.5	0	0.8	110.9	110.8	-32.2	-28.66
GUAD0184	12/2/2021 13:31	53.4	45.1	0	1.5	129.9	129.4	-6.62	-13.39
GUAD0185	12/6/2021 8:56	57.2	42.8	0.1	-0.1	125.2	125.3	-1.03	-1.03
GUAD0186	12/6/2021 10:16	41.5	41	0.2	17.3	68.9	68.9	-25.98	-26
GUAD0187	12/2/2021 13:20	56	43.6	0	0.4	123.9	123.9	-32.77	-32.46
GUAD0198	12/6/2021 9:21	53.1	39.9	0	7	118.4	118.3	-2.21	-2.2
GUAD0199	12/6/2021 9:06	54.3	40.3	0	5.4	129.1	128.4	-16.48	-14.77
GUAD0200	12/10/2021 15:51	58.2	40.6	0	1.2	115.3	112.3	-25.88	-24.11
GUAD0201	12/10/2021 11:18	55.2	41.4	0.1	3.3	118	118.5	-29.26	-29.63
GUAD0202	12/1/2021 7:34	54.6	39.5	0.1	5.8	123.4	123.4	-1.04	-1.04
GUAD0203	12/10/2021 9:27	55	42.7	0	2.3	118.1	118	-29.49	-29.36
GUAD0204	12/10/2021 11:43	56.6	42.6	0	0.8	117.4	117.4	-27.88	-27.93
GUAD0205	12/6/2021 13:16	36.4	41.5	0	22.1	126.9	124.5	-1.4	-0.9
GUAD0207	12/14/2021 13:18	44.5	41.2	0	14.3	129.5	128.2	-0.26	-0.22
GUAD0208	12/15/2021 14:01	39.2	40.4	0	20.4	129	129.1	-0.12	-0.12
GUAD0209	12/6/2021 9:32	36	42.1	0	21.9	125.8	123.8	-0.31	-0.17
GUAD0209	12/14/2021 12:59	47.7	43.1	0	9.2	122.3	120.1	-0.12	-0.09
GUAD0211	12/15/2021 14:07	41.3	39.6	0	19.1	121.1	122.3	-0.12	-0.13
GUAD0213	12/6/2021 9:54	52.2	45	0	2.8	130	125.5	-22.29	-14.8
GUAD0214	12/6/2021 9:37	42.2	40.8	0	17	128.8	127.9	-8.56	-6.6
GUAD0215	12/6/2021 13:04	44.3	40.3	0.1	15.3	128.8	126	-0.84	-0.62
GUAD0216	12/6/2021 13:21	39	40.9	0	20.1	127.1	119.8	-1.6	-1.03
GUAD0217	12/2/2021 12:48	43.3	41.9	0	14.8	129.4	129.8	-4.12	-1.74
GUAD0218	12/2/2021 12:43	41.2	38.2	0.1	20.5	125	125.1	-0.75	-0.68
GUAD0219	12/1/2021 9:04	43	37.7	0	19.3	122.1	120.9	-3.36	-2.66
GUAD0220	12/2/2021 13:24	48.5	42.1	0	9.4	125.3	125.2	-32.1	-32.11
GUAD0221	12/1/2021 8:54	37.8	36.1	0	26.1	118.9	117.4	-2.05	-1.23
GUAD0222	12/15/2021 15:06	41.3	34.1	0	24.6	108.6	108.8	-0.21	-0.13
GUAD0223	12/15/2021 14:55	46.3	39.2	0	14.5	127.9	127.8	-0.81	-0.77
GUAD0224	12/15/2021 15:00	33.8	38.8	0	27.4	115.6	116.6	-0.26	-0.28
GUAD0225	12/3/2021 9:37	37.3	32.5	0	30.2	123.3	119.2	-1.81	-0.7
GUAD0226	12/16/2021 10:23	59.4	40.3	0	0.3	118	119.7	-0.93	-1.05
GUAD0227	12/3/2021 10:14	40.1	36	0	23.9	121.5	118.9	-2.32	-0.72
GUAD0228	12/10/2021 8:49	43.4	33.5	0	23.1	112.3	112.4	-0.48	-0.49
GUAD0230	12/15/2021 14:48	46.4	36.7	0	16.9	111.1	111.1	-0.29	-0.28
GUADH11L	12/1/2021 8:08	58.6	41	0.3	0.1	64.5	64.2	-0.57	-0.53

GUADH12L	12/1/2021 8:19	58.9	40.7	0.4	0	63.4	63.8	-0.53	-0.45
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Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218, are approved to  
 There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

**Guadalupe Recycling & Disposal Facility, San Jose, CA**

Wellfield Monitoring Report -January 4, 5, 6, 10, 11, 12, and 13, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	1/10/2022 9:03	54.7	43.2	0.0	2.1	127.6	128.5	-21.95	-31.95
GDLC0189	1/11/2022 10:14	49.1	43.1	0.0	7.8	130.1	129.1	-2.52	-5.49
GDLC0190	1/11/2022 10:09	41.8	40.2	0.0	18.0	127.1	120.3	-5.37	-1.07
GDLC0191	1/6/2022 8:48	33.5	44.3	0.0	22.2	111.3	112.6	-2.93	-2.86
GDLC0192	1/6/2022 8:23	53.7	42.8	0.0	3.5	122.1	123.6	-2.96	-6.21
GDLC0193	1/11/2022 13:29	44.4	38.3	0.0	17.3	127.9	127.1	-0.84	-3.46
GDLC0196	1/10/2022 7:43	21.3	26.2	0.0	52.5	90.5	90.6	-2.42	-2.45
GDLC0197	1/10/2022 7:21	51.3	28.6	0.0	20.1	128.5	128.7	-2.51	-3.49
GDLC0232	1/10/2022 7:37	20.5	26.7	0.6	52.2	116.9	115.5	-4.26	-2.06
GDLC0233	1/10/2022 8:10	26.0	28.9	0.6	44.5	115.6	114.4	-6.75	-4.75
GDLC0234	1/4/2022 10:04	37.2	33.6	0.0	29.2	115.4	114.4	-0.52	-0.41
GDLC0235	1/6/2022 8:31	48.2	43.7	0.0	8.1	123.5	124.6	-8.11	-17.74
GDLC0236	1/11/2022 10:27	43.4	41.4	0.0	15.2	122.4	122.4	-0.71	-0.70
GDLC0237	1/13/2022 14:35	55.3	41.6	0.0	3.1	124.6	125.5	-3.33	-4.86
GDLC0238	1/4/2022 9:47	34.6	33.4	0.0	32.0	110.0	108.8	-0.30	-0.08
GDLC0239	1/12/2022 10:44	47.6	35.8	0.0	16.6	111.9	111.9	-0.50	-0.45
GDLC0240	1/12/2022 9:35	56.7	43.3	0.0	0.0	116.2	118.1	-0.60	-2.36
GDLC0241	1/6/2022 9:40	57.2	42.3	0.0	0.5	121.7	123.3	-0.44	-0.99
GDLC0242	1/12/2022 9:44	55.0	45.0	0.0	0.0	113.7	104.4	-36.89	-41.90
GDLC0243	1/6/2022 8:10	58.3	40.3	0.1	1.3	92.4	92.4	-1.31	-1.83
GDLC0244	1/4/2022 9:55	36.9	37.3	0.0	25.8	112.3	111.7	-0.35	-0.23
GUAD0062	1/4/2022 8:15	55.8	37.9	0.0	6.3	87.9	90.4	-0.80	-2.78
GUAD0062	1/11/2022 15:42	52.7	35.7	0.1	11.5	95.4	95.3	-4.34	-4.01
GUAD0065	1/12/2022 8:47	57.2	38.4	0.1	4.3	109.3	109.0	-38.65	-37.32
GUAD0066	1/4/2022 8:04	53.5	37.3	0.0	9.2	102.3	107.3	-4.95	-12.36
GUAD0081	1/13/2022 15:37	58.1	41.2	0.0	0.7	100.8	100.6	-43.11	-43.50
GUAD0082	1/13/2022 15:24	57.1	34.5	0.0	8.4	99.3	99.6	-19.23	-29.96
GUAD0112	1/4/2022 9:37	49.5	36.3	0.0	14.2	119.2	121.1	-0.29	-0.26
GUAD0114	1/11/2022 12:15	55.4	43.6	0.3	0.7	65.3	66.8	-44.98	-45.31
GUAD0122	1/10/2022 8:39	53.8	43.5	0.2	2.5	129.6	129.5	-24.59	-26.07
GUAD0124	1/6/2022 8:44	56.7	43.3	0.0	0.0	125.9	126.2	-29.77	-29.82
GUAD0129	1/6/2022 9:33	57.8	42.2	0.0	0.0	101.4	100.1	-19.46	-9.82
GUAD0131	1/13/2022 14:19	60.5	39.4	0.1	0.0	105.9	105.7	-40.50	-40.65
GUAD0134	1/11/2022 8:58	46.4	47.4	0.1	6.1	123.2	123.2	-1.13	-1.09
GUAD0135	1/12/2022 8:57	57.9	42.1	0.0	0.0	130.4	130.5	-0.84	-0.93
GUAD0138	1/4/2022 7:54	25.2	28.2	0.0	46.6	84.1	84.1	-1.10	-1.10
GUAD0142	1/4/2022 8:10	57.9	38.1	0.0	4.0	99.5	104.1	-1.38	-4.01
GUAD0146	1/11/2022 10:33	56.9	42.8	0.2	0.1	129.1	129.2	-16.84	-17.84
GUAD0147	1/4/2022 10:29	51.2	39.0	0.0	9.8	110.9	112.1	-12.69	-9.45
GUAD0151	1/10/2022 9:07	57.8	40.5	0.0	1.7	128.8	128.3	-17.69	-17.69
GUAD0152	1/10/2022 8:21	33.6	33.6	6.7	26.1	128.1	127.5	-40.94	-40.05
GUAD0152	1/10/2022 10:14	55.9	41.6	0.4	2.1	127.0	126.2	-40.16	-34.45
GUAD0154	1/11/2022 13:39	57.9	42.1	0.0	0.0	129.8	129.8	-10.07	-10.50
GUAD0161	1/11/2022 11:28	53.5	43.2	0.0	3.3	129.1	129.5	-11.18	-11.17

GUAD0161	1/11/2022 11:29	56.9	41.3	0.0	1.8	129.5	129.0	-11.11	-11.12
GUAD0162	1/13/2022 14:43	54.7	44.7	0.0	0.6	130.5	127.3	-39.18	-39.19
GUAD0172	1/4/2022 12:06	58.2	38.3	0.0	3.5	108.9	110.3	-1.10	-3.10
GUAD0173	1/4/2022 12:13	59.0	41.0	0.0	0.0	87.5	81.2	0.00	-0.57
GUAD0173	1/5/2022 6:50	60.7	38.2	0.0	1.1	105.2	103.6	-1.10	-1.17
GUAD0176	1/11/2022 9:37	32.5	32.4	0.0	35.1	105.2	104.1	-2.70	-1.48
GUAD0177	1/10/2022 8:17	42.3	37.4	0.0	20.3	126.5	125.4	-37.15	-19.35
GUAD0178	1/10/2022 8:27	39.3	30.8	6.2	23.7	63.9	62.2	-39.93	-39.44
GUAD0178	1/10/2022 10:17	48.3	37.9	2.3	11.5	81.1	81.4	-43.44	-44.18
GUAD0179	1/10/2022 8:06	36.5	33.0	0.6	29.9	112.8	112.3	-1.51	-1.06
GUAD0180	1/10/2022 8:45	51.7	44.3	0.0	4.0	129.1	128.6	-33.77	-32.29
GUAD0181	1/10/2022 8:49	54.7	45.1	0.0	0.2	128.2	127.8	-36.21	-33.61
GUAD0183	1/6/2022 8:36	54.8	44.7	0.0	0.5	107.2	108.1	-30.76	-36.02
GUAD0184	1/6/2022 8:54	49.4	45.9	0.0	4.7	128.2	129.4	-16.98	-39.24
GUAD0185	1/11/2022 12:48	57.0	43.0	0.0	0.0	127.6	118.8	-0.37	-1.36
GUAD0186	1/11/2022 13:34	46.3	43.0	0.0	10.7	80.7	82.6	-35.91	-36.39
GUAD0187	1/6/2022 8:20	58.7	40.7	0.1	0.5	122.8	122.6	-36.30	-28.99
GUAD0198	1/10/2022 8:02	55.3	39.0	0.0	5.7	120.3	121.8	-2.38	-3.41
GUAD0199	1/10/2022 8:31	56.6	37.7	0.0	5.7	128.8	129.0	-13.68	-13.92
GUAD0200	1/10/2022 8:57	56.2	43.8	0.0	0.0	128.9	128.3	-23.08	-27.15
GUAD0201	1/4/2022 10:07	56.0	44.0	0.0	0.0	118.1	118.3	-33.71	-33.23
GUAD0202	1/10/2022 7:55	49.9	34.9	0.0	15.2	122.3	121.5	-1.46	-1.34
GUAD0203	1/10/2022 7:26	58.5	39.5	0.0	2.0	116.8	116.9	-33.69	-33.76
GUAD0204	1/4/2022 10:22	53.7	46.1	0.2	0.0	74.0	75.2	-34.83	-34.86
GUAD0205	1/11/2022 10:18	44.2	44.0	0.0	11.8	130.5	130.8	-0.63	-0.72
GUAD0207	1/10/2022 8:36	47.7	40.4	0.0	11.9	126.5	125.2	-0.02	-0.31
GUAD0208	1/10/2022 8:53	41.2	42.8	0.0	16.0	128.9	128.3	-0.32	-0.27
GUAD0209	1/10/2022 8:42	48.6	44.6	0.0	6.8	111.5	128.3	-0.04	-0.29
GUAD0211	1/11/2022 10:43	48.3	41.3	0.0	10.4	120.1	123.5	-0.29	-0.65
GUAD0213	1/11/2022 11:34	58.0	40.8	0.0	1.2	128.9	127.0	-5.78	-11.66
GUAD0214	1/11/2022 10:48	45.9	42.2	0.0	11.9	128.4	128.4	-7.62	-8.98
GUAD0215	1/4/2022 13:21	53.6	31.7	1.1	13.6	126.8	127.8	-0.41	-0.49
GUAD0215	1/11/2022 10:05	45.7	40.7	0.0	13.6	128.1	127.7	-1.01	-0.95
GUAD0216	1/11/2022 10:23	45.6	41.9	0.0	12.5	129.5	127.2	-0.71	-1.22
GUAD0217	1/4/2022 13:13	36.8	38.2	0.0	25.0	127.5	125.7	-2.65	-1.50
GUAD0218	1/4/2022 12:24	35.7	37.4	0.0	26.9	124.4	124.4	-0.71	-0.78
GUAD0219	1/4/2022 12:19	51.2	39.1	0.0	9.7	119.6	121.1	-0.99	-1.05
GUAD0220	1/12/2022 11:50	51.9	40.4	0.0	7.7	124.4	124.4	-30.30	-27.11
GUAD0221	1/4/2022 12:33	45.7	38.2	0.0	16.1	104.9	106.5	-0.15	-0.21
GUAD0222	1/12/2022 11:21	41.6	34.9	0.0	23.5	110.7	110.8	-0.13	-0.14
GUAD0223	1/12/2022 10:51	48.6	41.9	0.0	9.5	127.4	127.9	-0.40	-0.91
GUAD0224	1/12/2022 11:01	41.4	41.8	0.0	16.8	118.8	118.3	-0.34	-0.31
GUAD0225	1/4/2022 9:32	51.9	39.0	0.0	9.1	110.0	116.2	-0.05	-0.50
GUAD0226	1/13/2022 9:29	59.1	40.9	0.0	0.0	118.0	118.1	-0.73	-0.72
GUAD0227	1/4/2022 9:24	54.9	37.3	0.0	7.8	112.3	115.2	-0.49	-0.92
GUAD0228	1/4/2022 9:16	54.6	36.7	0.0	8.7	108.5	114.2	-0.43	-1.28
GUAD0230	1/12/2022 11:06	50.6	39.7	0.0	9.7	111.3	111.7	-0.33	-0.78

GUADH11L	1/13/2022 15:39	58.4	40.6	0.3	0.7	59.6	59.4	-2.60	-3.34
GUADH12L	1/13/2022 15:16	55.4	26.7	2.7	15.2	65.3	65.0	-42.58	-44.62

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218, are approved to  
There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

**Guadalupe Recycling & Disposal Facility, San Jose, CA**

Wellfield Monitoring Report -February 2, 3, 4, and 7, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	2/3/2022 13:52	50	42.9	0	7.1	129.1	128.8	-24.92	-25.08
GDLC0189	2/3/2022 13:04	44.9	40.6	0	14.5	129.8	130.6	-5.45	-6.49
GDLC0190	2/3/2022 12:51	45.5	41.6	0	12.9	107.9	124.4	-1.53	-17.84
GDLC0191	2/4/2022 9:56	36.2	43.8	0	20	109.8	111.5	-1.89	-6.45
GDLC0192	2/4/2022 10:14	49.4	44.5	0	6.1	126.8	126.8	-7.32	-9.58
GDLC0193	2/3/2022 12:30	42.2	39.5	0	18.3	130.3	130.2	-3.08	-2.3
GDLC0196	2/2/2022 13:08	37.2	32.2	0	30.6	94.6	94.8	-1.43	-1.85
GDLC0197	2/2/2022 11:32	44.9	38.4	0	16.7	129.8	129.8	-3.39	-3.4
GDLC0232	2/2/2022 12:47	40	33.8	0	26.2	112.7	113.6	-0.57	-0.79
GDLC0233	2/2/2022 13:11	40.7	33.3	0	26	114.1	114.4	-1.95	-2.71
GDLC0234	2/2/2022 11:44	41	32.6	0	26.4	113.7	114.4	-0.18	-0.32
GDLC0235	2/4/2022 10:07	48.6	43.1	0.1	8.2	124.8	124.7	-24.99	-27.93
GDLC0236	2/3/2022 13:21	39.8	40.9	0	19.3	120.1	122.8	-0.67	-1.37
GDLC0237	2/3/2022 12:20	50	43.8	0	6.2	126.5	126.5	-4.55	-4.55
GDLC0238	2/7/2022 10:31	34.7	35.5	0.1	29.7	109.4	109.4	-0.23	-0.23
GDLC0239	2/4/2022 11:48	27.1	30.4	0	42.5	103.9	103.6	-0.3	-0.24
GDLC0240	2/4/2022 11:43	48.6	40.5	0	10.9	118.9	118.9	-3.57	-2.53
GDLC0241	2/4/2022 10:31	55	45	0	0	125.2	125.2	-1.92	-2.58
GDLC0242	2/4/2022 11:39	55.2	44.8	0	0	104.2	104.2	-39.2	-39
GDLC0243	2/4/2022 10:34	50.4	43.5	0	6.1	105.5	105.6	-2.32	-2.32
GDLC0244	2/2/2022 11:38	47.1	41.4	0	11.5	111.2	113.7	-0.09	-0.76
GUAD0062	2/2/2022 11:09	41.5	32.3	1.1	25.1	76	75.7	-3.72	-2.56
GUAD0065	2/2/2022 10:14	56.7	39.3	0	4	108.7	108.6	-37.6	-36.08
GUAD0066	2/2/2022 10:22	39.8	34.4	0	25.8	112.1	111.5	-16.51	-13.35
GUAD0081	2/4/2022 9:05	54.4	40.5	0	5.1	97.7	97.7	-43.09	-43.22
GUAD0082	2/4/2022 9:00	46.5	35.5	0	18	99.3	99.2	-38.43	-39.83
GUAD0112	2/2/2022 10:36	42.8	34.9	0	22.3	124.9	124.4	-0.59	-0.38
GUAD0114	2/3/2022 14:46	56	43.2	0	0.8	102.8	105.7	-43.74	-43.73
GUAD0122	2/3/2022 11:40	55.9	41.5	0.1	2.5	128.4	129.6	-30.06	-31.43
GUAD0124	2/4/2022 9:59	55	44.7	0	0.3	123.4	123.2	-21.94	-21.92
GUAD0129	2/4/2022 11:07	60.4	39.6	0	0	104	104.1	-0.11	-4.62
GUAD0131	2/7/2022 8:57	60.5	39.4	0.1	0	110.9	111.1	-39.55	-42.51
GUAD0134	2/2/2022 10:50	45.9	50.6	0	3.5	122.1	122.6	-0.92	-1.33
GUAD0135	2/4/2022 11:30	57	43	0	0	129.2	129.1	-1.53	-2.19
GUAD0138	2/2/2022 10:26	21	25.9	0	53.1	89.2	89.2	-1.46	-1.45
GUAD0142	2/2/2022 10:18	48.7	36.3	0.5	14.5	103.8	103.7	-5.42	-4.87
GUAD0146	2/3/2022 11:59	55.8	44.2	0	0	127.8	128.2	-23.6	-24.71
GUAD0147	2/2/2022 12:03	58.6	41.2	0	0.2	113.5	114.4	-5.65	-8.51
GUAD0151	2/3/2022 12:57	56	39.2	0	4.8	130.7	130.8	-15.87	-16.33
GUAD0152	2/3/2022 13:58	54.7	43.2	0.5	1.6	124	125.2	-30.14	-31.46
GUAD0154	2/3/2022 12:40	56.6	43.4	0	0	127.6	128.1	-19.19	-18.84
GUAD0161	2/3/2022 12:07	53	42.3	0	4.7	129.3	128.7	-10.85	-10.89
GUAD0162	2/7/2022 10:40	54	42.6	0	3.4	130.4	130.2	-37.22	-37.23
GUAD0172	2/4/2022 9:18	49.3	38	0	12.7	110.9	110.9	-4.13	-3.86

GUAD0173	2/4/2022 9:24	41.2	36.6	0	22.2	107.6	105.6	-1.53	-1.28
GUAD0176	2/2/2022 12:44	50.9	40	0	9.1	104.7	107.1	-0.69	-2.05
GUAD0177	2/3/2022 14:08	52.7	41.5	0	5.8	126.8	128.2	-12.1	-25.95
GUAD0178	2/3/2022 11:24	46.2	33.1	3.8	16.9	63.1	69.3	-40.74	-41.23
GUAD0179	2/3/2022 11:32	31	32	0	37	112.6	112.9	-0.65	-0.72
GUAD0180	2/3/2022 11:48	48	43.9	0.1	8	128	127.8	-34.02	-33.82
GUAD0181	2/3/2022 13:26	53.3	45	0	1.7	129.8	129.6	-32.37	-35.87
GUAD0183	2/4/2022 10:03	56.1	43.9	0	0	121.4	121.4	-33.79	-33.62
GUAD0184	2/4/2022 10:44	45.6	43.6	0	10.8	129.4	129.3	-37.06	-37.46
GUAD0185	2/3/2022 12:25	53	42.9	0	4.1	129.9	129.3	-2.6	-2.45
GUAD0186	2/3/2022 12:35	47.3	43.7	0	9	72.1	69.2	-34.57	-34.28
GUAD0187	2/4/2022 10:18	55.7	44.3	0	0	122.5	122.7	-23.09	-24.82
GUAD0198	2/3/2022 11:36	48.7	38.7	0	12.6	124.3	124.3	-4.31	-4.26
GUAD0199	2/3/2022 11:28	51.6	38.4	0	10	129.6	129.7	-15.42	-15.98
GUAD0200	2/3/2022 13:46	56.5	43.5	0	0	128	130.4	-24.51	-24.89
GUAD0201	2/2/2022 11:48	55.3	43.8	0.1	0.8	118.3	118.5	-29.13	-29.51
GUAD0202	2/2/2022 13:04	47.4	34.8	0	17.8	119.5	122.1	-0.74	-0.78
GUAD0203	2/2/2022 11:58	55.5	44.5	0	0	117.2	116.9	-28.69	-27.45
GUAD0204	2/7/2022 10:47	54.8	43.5	0.1	1.6	93.3	93.1	-21.85	-21.68
GUAD0205	2/3/2022 13:07	39.8	41.3	0	18.9	129.2	129.5	-1.13	-1.18
GUAD0207	2/3/2022 13:41	37.2	40.6	0	22.2	129.1	127.6	-0.51	-0.45
GUAD0208	2/3/2022 13:30	33	39	0	28	127.3	127.3	-0.15	-0.15
GUAD0209	2/3/2022 11:44	35.1	39.9	0	25	129	129.1	-0.63	-0.28
GUAD0211	2/3/2022 11:55	44.5	41.2	0	14.3	122.2	120.9	-0.5	-0.3
GUAD0213	2/3/2022 12:17	53.5	44.9	0	1.6	128.6	127.7	-16.91	-16.9
GUAD0214	2/3/2022 12:02	43.5	41.3	0	15.2	127.5	127.6	-10.2	-8.27
GUAD0215	2/3/2022 12:45	44.2	40.5	0	15.3	130.6	130.7	-1.12	-1.25
GUAD0216	2/3/2022 13:16	39.7	36.3	0	24	130.4	129.9	-1.71	-1.64
GUAD0217	2/4/2022 9:51	39.2	40.5	0	20.3	127.8	128.7	-0.91	-0.98
GUAD0218	2/4/2022 9:47	37.8	40	0	22.2	125.8	126.2	-1.2	-1.19
GUAD0219	2/4/2022 9:31	54.1	40.6	0	5.3	118.5	123.2	-1.59	-2.19
GUAD0220	2/4/2022 10:19	53.1	43	0	3.9	124.9	124.8	-24.53	-24.46
GUAD0221	2/4/2022 9:35	49.1	39.9	0	11	112.6	115.9	-0.65	-1.15
GUAD0222	2/4/2022 12:06	32.5	33.1	0	34.4	110	110.2	-0.27	-0.26
GUAD0223	2/4/2022 12:00	45.5	42.9	0	11.6	127.3	127.4	-0.78	-0.79
GUAD0224	2/4/2022 11:54	30.3	39.6	0	30.1	112.8	112.8	-0.23	-0.23
GUAD0225	2/2/2022 10:31	55.5	39.1	0	5.4	120.2	122.1	-0.52	-1.21
GUAD0226	2/4/2022 11:24	58	42	0	0	118.2	118.3	-1.08	-0.97
GUAD0227	2/2/2022 10:52	48.5	39.7	0	11.8	119.6	119.8	-1.01	-1.55
GUAD0228	2/2/2022 10:42	38.7	37	0	24.3	116.4	116	-1.86	-1.29
GUAD0230	2/4/2022 12:10	43.7	38.1	0	18.2	112.8	112.6	-1.03	-0.78
GUADH11L	2/4/2022 9:09	56.6	40	0.6	2.8	55.1	55.1	-6.51	-6.55
GUADH12L	2/4/2022 8:58	42.9	27.7	3.1	26.3	100.2	100.1	-38.26	-37.94

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218, are approved to  
There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System



**Guadalupe Recycling & Disposal Facility, San Jose, CA**

Wellfield Monitoring Report -March 10, 14, 15 and 16, 2022

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure("H2O)	Adjusted Static Pressure("H2O)
GDLC0188	3/14/2022 13:56	48.3	42.3	0	9.4	127.1	127.2	-25.65	-26.69
GDLC0189	3/15/2022 11:45	39.9	39.8	0	20.3	127.2	120.4	-7.33	-4.25
GDLC0190	3/15/2022 11:41	31.4	36.5	0	32.1	129.4	129.1	-18.91	-10.39
GDLC0191	3/10/2022 11:57	20	33.7	0	46.3	115.8	115.8	-7.85	-7.37
GDLC0192	3/10/2022 12:11	48.8	45.2	0	6	127.2	127.2	-10.57	-10.58
GDLC0193	3/15/2022 10:28	38.3	38.1	0	23.6	130.2	129.1	-1.93	-0.86
GDLC0196	3/14/2022 14:33	38	32.3	0	29.7	97.4	96.9	-1.95	-1.17
GDLC0196	3/14/2022 14:33	38	32.3	0	29.7	97.4	96.9	-1.95	-1.17
GDLC0197	3/16/2022 7:50	37.5	33.2	0	29.3	130.7	129.9	-3.58	-1.72
GDLC0232	3/14/2022 14:41	37.7	33.7	0	28.6	116.4	116.3	-0.97	-0.85
GDLC0233	3/16/2022 13:20	29.4	29.8	0.4	40.4	114.1	113.5	-4.94	-3.03
GDLC0234	3/16/2022 8:07	32.2	33.1	0	34.7	108.5	112.6	-0.48	-0.24
GDLC0235	3/10/2022 12:03	50.2	44.3	0	5.5	125.8	125.8	-28.39	-33.35
GDLC0236	3/15/2022 11:31	31.2	37.5	0	31.3	126.3	125.6	-1.64	-1.18
GDLC0237	3/15/2022 10:40	49.6	43.7	0	6.7	126.5	127	-4	-5.97
GDLC0238	3/16/2022 8:27	24.5	31.9	0	43.6	109.7	108	-0.27	-0.03
GDLC0239	3/15/2022 9:14	21.4	26.3	0.9	51.4	102.6	103.6	-0.48	-0.4
GDLC0240	3/10/2022 14:51	51.7	40.3	0	8	118.6	118.7	-2.49	-3.34
GDLC0241	3/10/2022 12:55	54.7	45.3	0	0	126.3	126.2	-2.7	-3.65
GDLC0242	3/15/2022 9:41	57.5	42.5	0	0	78.6	70.3	-42.24	-42.06
GDLC0243	3/10/2022 12:37	45.5	42.8	0	11.7	111.9	111.9	-2.67	-3.05
GDLC0244	3/16/2022 8:20	25.4	32	0	42.6	116.4	113.7	-1.65	-0.18
GUAD0062	3/15/2022 9:05	52.5	38.9	0	8.6	92.9	93.5	-2.28	-3.75
GUAD0065	3/15/2022 8:47	54.7	41.5	0	3.8	107.8	103.9	-37.07	-35.74
GUAD0066	3/15/2022 8:53	40.2	34.1	0	25.7	110.3	110.1	-9.08	-7.78
GUAD0081	3/16/2022 10:03	53.4	41.5	0	5.1	103	102.9	-44.71	-44.66
GUAD0082	3/16/2022 9:59	43.4	34.8	0	21.8	100.1	100.4	-41.81	-34.96
GUAD0112	3/15/2022 8:04	35.3	31.1	0	33.6	123.2	122.6	-0.4	-0.29
GUAD0114	3/16/2022 9:36	53.3	46.7	0	0	79.6	79.6	-45.47	-45.1
GUAD0122	3/14/2022 13:27	54.9	41.4	0	3.7	130.1	130.4	-34.83	-36.22
GUAD0124	3/10/2022 11:59	55.4	43.6	0	1	121	121	-20.19	-20.11
GUAD0129	3/10/2022 13:10	58.8	41.2	0	0	101.8	101.8	-17.75	-17.73
GUAD0131	3/10/2022 11:09	58.1	41.9	0	0	103.1	113.9	-35.35	-44.29
GUAD0134	Offline for filling								
GUAD0135	3/15/2022 9:45	57.7	42.3	0	0	129	129.1	-2.59	-3.88
GUAD0138	3/15/2022 7:41	24.6	25	0	50.4	90.5	90.5	-1.19	-1.19
GUAD0142	3/15/2022 8:55	51.6	39	0	9.4	103.1	103.3	-3.16	-3.22
GUAD0146	3/15/2022 11:08	56.6	43.4	0	0	129.3	128.8	-29.67	-30.03
GUAD0147	3/14/2022 14:46	53.4	39.5	0	7.1	115.3	115.8	-9.68	-14.66
GUAD0151	3/16/2022 13:16	59	36.4	0	4.6	129.5	129.1	-18.23	-19.29
GUAD0152	3/14/2022 14:01	55.7	42.2	0.6	1.5	124.6	125.4	-28.65	-28.55
GUAD0154	3/15/2022 9:58	57.6	42.4	0	0	126.5	129	-23.29	-22.69
GUAD0161	3/15/2022 10:59	55.4	41.7	0	2.9	130.1	129	-14.93	-15.54
GUAD0162	3/15/2022 10:53	54.3	43.9	0	1.8	129.8	129.4	-38.88	-38.86

GUAD0172	3/10/2022 10:41	35.3	28.1	0.9	35.7	107.8	104.9	-3.03	-1.36
GUAD0173	3/10/2022 10:49	39.8	33.7	0	26.5	116.6	111.4	-0.72	-0.55
GUAD0176	Offline for filling								
GUAD0177	3/14/2022 14:49	47.7	38.6	0	13.7	124.5	124.8	-27.84	-28.82
GUAD0178	3/14/2022 14:05	46.6	36	3.2	14.2	92.5	93.3	-38.61	-40.89
GUAD0179	3/14/2022 13:19	25	27.9	0	47.1	114.1	113.7	-0.75	-0.59
GUAD0180	3/14/2022 13:33	47.6	43.3	0	9.1	129.8	130.3	-35.84	-36.58
GUAD0181	3/14/2022 13:37	52.9	44.4	0	2.7	129.1	129.8	-34.82	-36.93
GUAD0183	3/10/2022 12:06	55.7	44.3	0	0	119.9	119.9	-35.3	-35.28
GUAD0184	3/10/2022 14:24	45.1	40.2	0	14.7	129.1	129.1	-37.86	-37.83
GUAD0185	3/15/2022 10:35	55.8	43	0	1.2	127.7	127.9	-1.85	-2.84
GUAD0186	3/15/2022 10:03	47.6	42.7	0	9.7	130.1	130	-35.01	-34.98
GUAD0187	3/10/2022 12:14	55.4	44.6	0	0	122.9	122.9	-28.66	-30.55
GUAD0198	3/14/2022 13:23	44.3	36.2	0	19.5	125.2	125	-4.53	-3.04
GUAD0199	3/14/2022 13:17	47.5	37.4	0.1	15	130.4	130.4	-18.9	-18.16
GUAD0200	3/14/2022 13:53	56.6	42.7	0	0.7	129.8	129.6	-25.08	-25.07
GUAD0201	3/16/2022 8:13	55.5	43.9	0	0.6	118.8	118.3	-29.3	-29.24
GUAD0202	3/16/2022 9:30	42.7	35.9	0	21.4	123.1	123.9	-1.14	-1.67
GUAD0203	3/16/2022 7:55	55.4	43.2	0	1.4	118.2	118.3	-27.55	-27.49
GUAD0204	3/16/2022 8:01	55.4	44.6	0	0	109.9	111.6	-29.35	-29.72
GUAD0205	3/15/2022 11:49	34.8	40.3	0	24.9	128.4	127.2	-1.57	-1.45
GUAD0207	3/14/2022 13:45	42.8	39.5	0	17.7	130.2	130.4	-0.16	-0.28
GUAD0208	3/7/2022 11:24	33.5	37.4	0	29.1	126.8	126.8	-0.33	-0.18
GUAD0208	3/14/2022 13:41	34.5	39	0	26.5	127.9	127.1	-0.11	-0.01
GUAD0209	3/16/2022 8:44	35	42.9	0	22.1	129.4	125.8	-0.16	-0.08
GUAD0211	3/15/2022 11:13	36	40.3	0	23.7	124	124	-0.56	-0.52
GUAD0213	3/15/2022 10:46	52.7	44.2	0	3.1	129.1	129.1	-17.97	-20.25
GUAD0214	3/15/2022 11:04	42.9	40.5	0	16.6	127.7	127.7	-8.22	-9.02
GUAD0215	3/15/2022 11:37	36.6	38.6	0	24.8	127.6	127.3	-1.76	-1.35
GUAD0216	3/15/2022 11:54	34.2	37.2	0	28.6	130.8	130.1	-1.42	-1.38
GUAD0217	3/10/2022 11:50	33.5	38.1	0	28.4	129.7	128.3	-1.56	-1.02
GUAD0218	3/10/2022 11:19	30	35.9	0	34.1	127.8	126.8	-2.12	-1.44
GUAD0219	3/10/2022 9:17	42.5	38.5	0	19	123.1	122.4	-3.75	-3.12
GUAD0220	3/10/2022 12:19	49.8	43.1	0	7.1	125.1	125.1	-28.08	-28.09
GUAD0221	3/10/2022 8:23	34.1	33.8	0	32.1	117.8	117.2	-3.01	-2.35
GUAD0222	3/15/2022 9:33	35.5	35.2	0	29.3	108.6	108.6	-0.2	-0.22
GUAD0223	3/15/2022 9:29	44.9	43.8	0	11.3	126.9	126.8	-0.91	-1.01
GUAD0223	3/16/2022 8:52	27.3	28.2	2.1	42.4	110.9	109.3	-2.42	-2.27
GUAD0224	3/15/2022 9:26	30.4	38.7	0	30.9	111.3	111.4	-0.23	-0.26
GUAD0225	3/15/2022 8:41	42.2	36.2	0	21.6	122.9	123.2	-1.76	-1.96
GUAD0226	3/10/2022 14:39	58.1	41.9	0	0	117	117.9	-0.13	-0.3
GUAD0227	3/15/2022 8:17	43.2	38.2	0	18.6	120.9	121.4	-2.22	-3.07
GUAD0228	3/15/2022 8:09	39.2	36.6	0	24.2	114.9	114.1	-0.97	-0.83
GUAD0230	3/15/2022 9:36	47.1	38.2	0	14.7	111.7	112.6	-0.56	-1.35
GUADH11L	3/16/2022 10:20	48.2	35.8	1.2	14.8	62.8	62.9	-8.73	-7.72
GUADH12L	3/16/2022 10:13	51.7	34.9	1.6	11.8	62.8	62.8	-7.31	-10.52

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218, are approved to

There are 87 total collectors (85 vertical wells and 2 horizontal wells) at GRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

GCCS = Gas Collection and Control System

**APPENDIX K**

**WELLFIELD DEVIATION LOGS**

**Guadalupe Recycling & Disposal Facility, San Jose, CA**

**Wellfield Deviation Report**

**October 1, 2021 - March 31, 2022**

**REPORT PREPARED BY:** Rajan Phadnis  
**UPDATED DATE:** 4/1/2022  
**LFG MONITORING DEVICE:** GEM  
**MODEL:** 5000  
**DATE LAST CALIBRATED:** Daily

Wellhead ID Number	Date Time	Gas Composition ( % by volume)				Initial Temperature(oF)	Adjusted Temperature(oF)	Initial Static Pressure ("H <sub>2</sub> O)	Adjusted Static Pressure ("H <sub>2</sub> O)	Comments	Duration of Exceedance As of the End of Reporting Period (Days)
		CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Balance						
GDLC0188	10/7/2021 13:42	2.8	2.8	20.5	73.9	83.1	82.9	-1.1	-1.1	NSPS/EG CAI;Pinched	
GDLC0188	10/7/2021 13:45	1.3	1.1	21.3	76.3	81.6	81.6	-1.0	-1.0	NSPS/EG CAI;Pinched	
GDLC0188	11/15/2021 15:27	53.5	46.1	0	0.4	128.7	128.6	-8.6	-10.3	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.	
GDLC0188	11/15/2021 15:30	New collection system installed;NSPS/EG Corrective Action Completed (CAC)									39
Well 188 had oxygen exceedance during initial monitoring in October 2021. New lateral was installed and exceedance was corrected during November 2021.											
GUAD0151	10/7/2021 13:33	59.7	34.9	0.0	5.4	85.0	86.6	0.1	0.1	NSPS/EG CAI;Fully Open	
GUAD0151	10/7/2021 13:36	60.4	34.4	0.0	5.2	84.9	84.8	0.2	0.2	NSPS/EG CAI;Pinched	
GUAD0151	10/19/2021 12:45	60.8	37.6	0.0	1.6	77.9	77.5	5.13	5.14	NSPS/EG CAI;Fully Open;Pinched	
GUAD0151	11/15/2021 15:21	58.7	41.3	0.0	0.0	128.9	128.9	-0.4	-0.4	NSPS/EG CAI;Barely Open;No Adj. Made	
GUAD0151	11/15/2021 15:25	NSPS/EG Corrective Action Completed (CAC) Collection line added									39
Well 151 had pressure exceedance during initial monitoring in October 2021. New lateral was installed and exceedance was corrected during November 2021.											
GUAD0200	10/7/2021 15:29	57.5	39.9	0.0	2.6	134.1	134.1	-15.3	-15.3	Fully Open	
GUAD0200	10/12/2021 16:24	58.6	39.5	0.0	1.9	130.5	132.3	-5.9	-5.9	NSPS/EG CAI;Fully Open;Pinched	
GUAD0200	10/12/2021 16:26	CO was 0 ppm									
GUAD0200	11/4/2021 14:15	58.5	41.5	0.0	0.0	128.4	128.5	-0.3	-0.5	NSPS/EG CAI;Fully Open;Surging;No Adj. Made	
GUAD0200	11/18/2021 12:45	56.8	43.2	0.1	-0.1	125.5	126.8	-11.9	-12.6	NSPS/EG CAI;Barely Open;Inc. Flow/Vac.;Surging	
GUAD0200	11/18/2021 12:50	CO was 5 ppm									47
Well 200 had temperature exceedance during initial monitoring in October 2021. CO was below 100 ppm. HOV notification letter was submitted and well was placed on the existing list of HOV wells.											
GUAD0217	10/5/2021 13:50	45.3	41.1	0.8	12.8	131.3	131.3	-2.5	-2.5	No Adj. Made	
GUAD0217	10/5/2021 14:50	34.7	37	0.0	28.3	128.5	128.5	-5.1	-5.1	NSPS/EG CAI;Dec. Flow/Vac.;Surging	
GUAD0217	10/5/2021 14:52	CO was 10 ppm									
GUAD0217	11/1/2021 13:23	48.5	44.4	0	7.1	126.3	126.2	-0.5	-0.5	NSPS/EG CAI;Barely Open;No Adj. Made	
GUAD0217	11/1/2021 13:20	CO was 0 ppm									47
Well 217 had temperature exceedance during initial monitoring in October 2021. CO was below 100 ppm. HOV notification letter was submitted and well was placed on the existing list of HOV wells.											
GUAD0218	10/6/2021 14:12	46.0	40.4	0.1	13.5	132.3	132.3	-0.7	-0.7	No Adj. Made	
GUAD0218	10/8/2021 16:07	44.8	41.1	0.0	14.1	111.7	111.5	-0.2	-0.2	NSPS/EG CAI;Barely Open;No Adj. Made	
GUAD0218	10/8/2021 16:08	CO was 0 ppm									
GUAD0218	11/1/2021 13:11	50.1	42.6	0	7.3	126.5	126.5	-1.1	-1.1	NSPS/EG CAI;Barely Open;No Adj. Made	
GUAD0218	11/1/2021 13:14	CO was 0 ppm									47
Well 218 had temperature exceedance during initial monitoring in October 2021. CO was below 100 ppm. HOV notification letter was submitted and well was placed on the existing list of HOV wells.											
GUAD0173	1/4/2022 12:13	59.0	41.0	0.0	0.0	87.5	81.2	0.0	-0.6	Barely Open;Inc. Flow/Vac.	<1
Well 173 had pressure exceedance during initial monitoring in January 2022. Adjustments were made and exceedance was corrected.											
GUAD0152	1/10/2022 8:21	33.6	33.6	6.7	26.1	128.1	127.5	-40.9	-40.1	Fully Open;Surging;No Adj. Made	
GUAD0152	1/10/2022 10:14	55.9	41.6	0.4	2.1	127.0	126.2	-40.2	-34.5	NSPS/EG CAI;Fully Open;Surging	<1
Well 152 had oxygen exceedance during initial monitoring in January 2022. Adjustments were made and exceedance was corrected on the same day.											
GUAD0178	1/10/2022 8:27	39.3	30.8	6.2	23.7	63.9	62.2	-39.9	-39.4	Barely Open;Dec. Flow/Vac.;Surging	
GUAD0178	1/10/2022 10:17	48.3	37.9	2.3	11.5	81.1	81.4	-43.4	-44.2	NSPS/EG CAI;Barely Open;Surging;No Adj. Made	<1

%= percent  
in. w.c.= inches in water column  
NSPS= New Source Performance Standards  
EG CAI= Emissions Guidelines Corrective Action Initiated  
EG CAC= Emissions Guidelines Corrective Action Completed  
°F = degrees Fahrenheit

## **APPENDIX L**

### **MONTHLY LANDFILL GAS FLOW RATES**

**October 1, 2021 - March 31, 2022 SAR MONTHLY LFG Input to Flare (A-9)  
Guadalupe Recycling & Disposal Facility, San Jose, CA**

**A-9 Old Enclosed Flare**

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	Average CH <sub>4</sub> (%)*	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Total MMBTU
<b>October 2021</b>	744.00	744.00	0.00	0	49.9	0	0	0
<b>November 2021</b>	721.00	721.00	0.00	0	49.9	0	0	0
<b>December 2021</b>	744.00	744.00	0.00	0	49.9	0	0	0
<b>January 2022</b>	744.00	744.00	0.00	0	49.9	0	0	0
<b>February 2022</b>	672.00	672.00	0.00	0	49.9	0	0	0
<b>March 2022</b>	743.00	743.00	0.00	0	49.9	0	0	0
<b>October 1, 2021 - March 31, 2022 Totals/Avg:</b>	<b>4,368.00</b>	<b>4,368.00</b>	<b>0.00</b>	<b>0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

Notes:

\*Starting June 24, 2020 methane content determined from flare A-9 April 29, 2020 source test.

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

**October-21**

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
10/1/2021	0.0	49.9	0	0	0	1,013.0	0
10/2/2021	0.0	49.9	0	0	0	1,013.0	0
10/3/2021	0.0	49.9	0	0	0	1,013.0	0
10/4/2021	0.0	49.9	0	0	0	1,013.0	0
10/5/2021	0.0	49.9	0	0	0	1,013.0	0
10/6/2021	0.0	49.9	0	0	0	1,013.0	0
10/7/2021	0.0	49.9	0	0	0	1,013.0	0
10/8/2021	0.0	49.9	0	0	0	1,013.0	0
10/9/2021	0.0	49.9	0	0	0	1,013.0	0
10/10/2021	0.0	49.9	0	0	0	1,013.0	0
10/11/2021	0.0	49.9	0	0	0	1,013.0	0
10/12/2021	0.0	49.9	0	0	0	1,013.0	0
10/13/2021	0.0	49.9	0	0	0	1,013.0	0
10/14/2021	0.0	49.9	0	0	0	1,013.0	0
10/15/2021	0.0	49.9	0	0	0	1,013.0	0
10/16/2021	0.0	49.9	0	0	0	1,013.0	0
10/17/2021	0.0	49.9	0	0	0	1,013.0	0
10/18/2021	0.0	49.9	0	0	0	1,013.0	0
10/19/2021	0.0	49.9	0	0	0	1,013.0	0
10/20/2021	0.0	49.9	0	0	0	1,013.0	0
10/21/2021	0.0	49.9	0	0	0	1,013.0	0
10/22/2021	0.0	49.9	0	0	0	1,013.0	0
10/23/2021	0.0	49.9	0	0	0	1,013.0	0
10/24/2021	0.0	49.9	0	0	0	1,013.0	0
10/25/2021	0.0	49.9	0	0	0	1,013.0	0
10/26/2021	0.0	49.9	0	0	0	1,013.0	0
10/27/2021	0.0	49.9	0	0	0	1,013.0	0
10/28/2021	0.0	49.9	0	0	0	1,013.0	0
10/29/2021	0.0	49.9	0	0	0	1,013.0	0
10/30/2021	0.0	49.9	0	0	0	1,013.0	0
10/31/2021	0.0	49.9	0	0	0	1,013.0	0
<b>Totals/ Average:</b>	<b>0.0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1013.0</b>	<b>0</b>
						<b>Maximum:</b>	<b>0</b>

**Notes:**

\*Methane content determined from the the April 28, 2020 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH: **November-21**

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
11/1/2021	0.0	49.9	0	0	0	1,013.0	0
11/2/2021	0.0	49.9	0	0	0	1,013.0	0
11/3/2021	0.0	49.9	0	0	0	1,013.0	0
11/4/2021	0.0	49.9	0	0	0	1,013.0	0
11/5/2021	0.0	49.9	0	0	0	1,013.0	0
11/6/2021	0.0	49.9	0	0	0	1,013.0	0
11/7/2021	0.0	49.9	0	0	0	1,013.0	0
11/8/2021	0.0	49.9	0	0	0	1,013.0	0
11/9/2021	0.0	49.9	0	0	0	1,013.0	0
11/10/2021	0.0	49.9	0	0	0	1,013.0	0
11/11/2021	0.0	49.9	0	0	0	1,013.0	0
11/12/2021	0.0	49.9	0	0	0	1,013.0	0
11/13/2021	0.0	49.9	0	0	0	1,013.0	0
11/14/2021	0.0	49.9	0	0	0	1,013.0	0
11/15/2021	0.0	49.9	0	0	0	1,013.0	0
11/16/2021	0.0	49.9	0	0	0	1,013.0	0
11/17/2021	0.0	49.9	0	0	0	1,013.0	0
11/18/2021	0.0	49.9	0	0	0	1,013.0	0
11/19/2021	0.0	49.9	0	0	0	1,013.0	0
11/20/2021	0.0	49.9	0	0	0	1,013.0	0
11/21/2021	0.0	49.9	0	0	0	1,013.0	0
11/22/2021	0.0	49.9	0	0	0	1,013.0	0
11/23/2021	0.0	49.9	0	0	0	1,013.0	0
11/24/2021	0.0	49.9	0	0	0	1,013.0	0
11/25/2021	0.0	49.9	0	0	0	1,013.0	0
11/26/2021	0.0	49.9	0	0	0	1,013.0	0
11/27/2021	0.0	49.9	0	0	0	1,013.0	0
11/28/2021	0.0	49.9	0	0	0	1,013.0	0
11/29/2021	0.0	49.9	0	0	0	1,013.0	0
11/30/2021	0.0	49.9	0	0	0	1,013.0	0
<b>Totals/ Average:</b>	<b>0.0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1013.0</b>	<b>0</b>
						<b>Maximum:</b>	<b>0</b>

**Notes:**

\*Methane content determined from the the April 28, 2020 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane



# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH: **December-21**

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
12/1/2021	0.0	49.9	0	0	0	1,013.0	0
12/2/2021	0.0	49.9	0	0	0	1,013.0	0
12/3/2021	0.0	49.9	0	0	0	1,013.0	0
12/4/2021	0.0	49.9	0	0	0	1,013.0	0
12/5/2021	0.0	49.9	0	0	0	1,013.0	0
12/6/2021	0.0	49.9	0	0	0	1,013.0	0
12/7/2021	0.0	49.9	0	0	0	1,013.0	0
12/8/2021	0.0	49.9	0	0	0	1,013.0	0
12/9/2021	0.0	49.9	0	0	0	1,013.0	0
12/10/2021	0.0	49.9	0	0	0	1,013.0	0
12/11/2021	0.0	49.9	0	0	0	1,013.0	0
12/12/2021	0.0	49.9	0	0	0	1,013.0	0
12/13/2021	0.0	49.9	0	0	0	1,013.0	0
12/14/2021	0.0	49.9	0	0	0	1,013.0	0
12/15/2021	0.0	49.9	0	0	0	1,013.0	0
12/16/2021	0.0	49.9	0	0	0	1,013.0	0
12/17/2021	0.0	49.9	0	0	0	1,013.0	0
12/18/2021	0.0	49.9	0	0	0	1,013.0	0
12/19/2021	0.0	49.9	0	0	0	1,013.0	0
12/20/2021	0.0	49.9	0	0	0	1,013.0	0
12/21/2021	0.0	49.9	0	0	0	1,013.0	0
12/22/2021	0.0	49.9	0	0	0	1,013.0	0
12/23/2021	0.0	49.9	0	0	0	1,013.0	0
12/24/2021	0.0	49.9	0	0	0	1,013.0	0
12/25/2021	0.0	49.9	0	0	0	1,013.0	0
12/26/2021	0.0	49.9	0	0	0	1,013.0	0
12/27/2021	0.0	49.9	0	0	0	1,013.0	0
12/28/2021	0.0	49.9	0	0	0	1,013.0	0
12/29/2021	0.0	49.9	0	0	0	1,013.0	0
12/30/2021	0.0	49.9	0	0	0	1,013.0	0
12/31/2021	0.0	49.9	0	0	0	1,013.0	0
<b>Totals/ Average:</b>	<b>0.0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1013.0</b>	<b>0</b>
						<b>Maximum:</b>	<b>0</b>

**Notes:**

\*Methane content determined from the the April 28, 2020 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

**January-22**

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
1/1/2022	0.0	49.9	0	0	0	1,013.0	0
1/2/2022	0.0	49.9	0	0	0	1,013.0	0
1/3/2022	0.0	49.9	0	0	0	1,013.0	0
1/4/2022	0.0	49.9	0	0	0	1,013.0	0
1/5/2022	0.0	49.9	0	0	0	1,013.0	0
1/6/2022	0.0	49.9	0	0	0	1,013.0	0
1/7/2022	0.0	49.9	0	0	0	1,013.0	0
1/8/2022	0.0	49.9	0	0	0	1,013.0	0
1/9/2022	0.0	49.9	0	0	0	1,013.0	0
1/10/2022	0.0	49.9	0	0	0	1,013.0	0
1/11/2022	0.0	49.9	0	0	0	1,013.0	0
1/12/2022	0.0	49.9	0	0	0	1,013.0	0
1/13/2022	0.0	49.9	0	0	0	1,013.0	0
1/14/2022	0.0	49.9	0	0	0	1,013.0	0
1/15/2022	0.0	49.9	0	0	0	1,013.0	0
1/16/2022	0.0	49.9	0	0	0	1,013.0	0
1/17/2022	0.0	49.9	0	0	0	1,013.0	0
1/18/2022	0.0	49.9	0	0	0	1,013.0	0
1/19/2022	0.0	49.9	0	0	0	1,013.0	0
1/20/2022	0.0	49.9	0	0	0	1,013.0	0
1/21/2022	0.0	49.9	0	0	0	1,013.0	0
1/22/2022	0.0	49.9	0	0	0	1,013.0	0
1/23/2022	0.0	49.9	0	0	0	1,013.0	0
1/24/2022	0.0	49.9	0	0	0	1,013.0	0
1/25/2022	0.0	49.9	0	0	0	1,013.0	0
1/26/2022	0.0	49.9	0	0	0	1,013.0	0
1/27/2022	0.0	49.9	0	0	0	1,013.0	0
1/28/2022	0.0	49.9	0	0	0	1,013.0	0
1/29/2022	0.0	49.9	0	0	0	1,013.0	0
1/30/2022	0.0	49.9	0	0	0	1,013.0	0
1/31/2022	0.0	49.9	0	0	0	1,013.0	0
<b>Totals/ Average:</b>	<b>0.0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1013.0</b>	<b>0</b>
						<b>Maximum:</b>	<b>0</b>

**Notes:**

\*Methane content determined from the the April 28, 2020 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

**February-22**

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
2/1/2022	0.0	49.9	0	0	0	1,013.0	0
2/2/2022	0.0	49.9	0	0	0	1,013.0	0
2/3/2022	0.0	49.9	0	0	0	1,013.0	0
2/4/2022	0.0	49.9	0	0	0	1,013.0	0
2/5/2022	0.0	49.9	0	0	0	1,013.0	0
2/6/2022	0.0	49.9	0	0	0	1,013.0	0
2/7/2022	0.0	49.9	0	0	0	1,013.0	0
2/8/2022	0.0	49.9	0	0	0	1,013.0	0
2/9/2022	0.0	49.9	0	0	0	1,013.0	0
2/10/2022	0.0	49.9	0	0	0	1,013.0	0
2/11/2022	0.0	49.9	0	0	0	1,013.0	0
2/12/2022	0.0	49.9	0	0	0	1,013.0	0
2/13/2022	0.0	49.9	0	0	0	1,013.0	0
2/14/2022	0.0	49.9	0	0	0	1,013.0	0
2/15/2022	0.0	49.9	0	0	0	1,013.0	0
2/16/2022	0.0	49.9	0	0	0	1,013.0	0
2/17/2022	0.0	49.9	0	0	0	1,013.0	0
2/18/2022	0.0	49.9	0	0	0	1,013.0	0
2/19/2022	0.0	49.9	0	0	0	1,013.0	0
2/20/2022	0.0	49.9	0	0	0	1,013.0	0
2/21/2022	0.0	49.9	0	0	0	1,013.0	0
2/22/2022	0.0	49.9	0	0	0	1,013.0	0
2/23/2022	0.0	49.9	0	0	0	1,013.0	0
2/24/2022	0.0	49.9	0	0	0	1,013.0	0
2/25/2022	0.0	49.9	0	0	0	1,013.0	0
2/26/2022	0.0	49.9	0	0	0	1,013.0	0
2/27/2022	0.0	49.9	0	0	0	1,013.0	0
2/28/2022	0.0	49.9	0	0	0	1,013.0	0
<b>Totals/ Average:</b>	<b>0.0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1013.0</b>	<b>0</b>
						<b>Maximum:</b>	<b>0</b>

**Notes:**

\*Methane content determined from the the April 28, 2020 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

**March-22**

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
3/1/2022	0.0	49.9	0	0	0	1,013.0	0
3/2/2022	0.0	49.9	0	0	0	1,013.0	0
3/3/2022	0.0	49.9	0	0	0	1,013.0	0
3/4/2022	0.0	49.9	0	0	0	1,013.0	0
3/5/2022	0.0	49.9	0	0	0	1,013.0	0
3/6/2022	0.0	49.9	0	0	0	1,013.0	0
3/7/2022	0.0	49.9	0	0	0	1,013.0	0
3/8/2022	0.0	49.9	0	0	0	1,013.0	0
3/9/2022	0.0	49.9	0	0	0	1,013.0	0
3/10/2022	0.0	49.9	0	0	0	1,013.0	0
3/11/2022	0.0	49.9	0	0	0	1,013.0	0
3/12/2022	0.0	49.9	0	0	0	1,013.0	0
3/13/2022	0.0	49.9	0	0	0	1,013.0	0
3/14/2022	0.0	49.9	0	0	0	1,013.0	0
3/15/2022	0.0	49.9	0	0	0	1,013.0	0
3/16/2022	0.0	49.9	0	0	0	1,013.0	0
3/17/2022	0.0	49.9	0	0	0	1,013.0	0
3/18/2022	0.0	49.9	0	0	0	1,013.0	0
3/19/2022	0.0	49.9	0	0	0	1,013.0	0
3/20/2022	0.0	49.9	0	0	0	1,013.0	0
3/21/2022	0.0	49.9	0	0	0	1,013.0	0
3/22/2022	0.0	49.9	0	0	0	1,013.0	0
3/23/2022	0.0	49.9	0	0	0	1,013.0	0
3/24/2022	0.0	49.9	0	0	0	1,013.0	0
3/25/2022	0.0	49.9	0	0	0	1,013.0	0
3/26/2022	0.0	49.9	0	0	0	1,013.0	0
3/27/2022	0.0	49.9	0	0	0	1,013.0	0
3/28/2022	0.0	49.9	0	0	0	1,013.0	0
3/29/2022	0.0	49.9	0	0	0	1,013.0	0
3/30/2022	0.0	49.9	0	0	0	1,013.0	0
3/31/2022	0.0	49.9	0	0	0	1,013.0	0
<b>Totals/ Average:</b>	<b>0.0</b>	<b>49.9</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1013.0</b>	<b>0</b>
						<b>Maximum:</b>	<b>0</b>

**Notes:**

\*Methane content determined from the the April 28, 2020 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

**October 1, 2021 - March 31, 2022 SAR MONTHLY LFG Input to Flare (A-17)  
Guadalupe Recycling & Disposal Facility, San Jose, CA**

**A-17 Enclosed Flare (Based on the correspondence with the BAAQMD, flare A-14 is now designated as flare A-17)**

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	Average CH <sub>4</sub> (%)*	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Total MMBTU
<b>October 2021</b>	744.0	52.5	691.5	1,595	40.4	66,345,058	26,826,624	27,175
<b>November 2021</b>	721.0	1.2	719.8	1,700	40.4	73,411,662	29,684,006	30,070
<b>December 2021</b>	744.0	2.8	741.2	1,452	40.4	64,578,886	26,112,473	26,452
<b>January 2022</b>	744.0	3.5	740.5	1,647	40.4	73,146,929	29,576,961	29,961
<b>February 2022</b>	672.0	4.4	667.6	1,784	40.4	71,436,687	28,885,424	29,261
<b>March 2022</b>	743.0	5.8	737.2	1,783	40.4	78,861,505	31,887,650	32,302
<b>October 1, 2021 - March 31, 2022 Totals/Avg:</b>	<b>4,368.0</b>	<b>70.1</b>	<b>4,297.9</b>	<b>1,660</b>	<b>40.4</b>	<b>427,780,727</b>	<b>172,973,137</b>	<b>175,222</b>
<b>Annual 2021 Totals/Avg:</b>	<b>8,760.0</b>	<b>70.4</b>	<b>8,689.6</b>	<b>1,840</b>	<b>40.4</b>	<b>960,592,129</b>	<b>397,307,589</b>	<b>402,473</b>

Notes:

NA= Initial startup of A-14 flare was on November 17, 2016. Stack was replaced with standard 120 MMBTU/HR stack at the end of October 2020. Per BAAQMD new designation is flare A-17.

\*Starting April 9, 2021, Methane content determined from flare A-17 February 18, 2021 source test.

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

October-21

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
10/1/2021	24.0	40.4	1,736	2,499,871	1,010,823	1,013.0	1,024.0
10/2/2021	24.0	40.4	1,721	2,478,250	1,002,080	1,013.0	1,015.1
10/3/2021	24.0	40.4	1,729	2,489,116	1,006,474	1,013.0	1,019.6
10/4/2021	24.0	40.4	1,701	2,449,252	990,355	1,013.0	1,003.2
10/5/2021	24.0	40.4	1,650	2,375,871	960,683	1,013.0	973.2
10/6/2021	24.0	40.4	1,627	2,343,280	947,505	1,013.0	959.8
10/7/2021	24.0	40.4	1,609	2,316,607	936,720	1,013.0	948.9
10/8/2021	24.0	40.4	1,571	2,262,821	914,972	1,013.0	926.9
10/9/2021	24.0	40.4	1,586	2,284,155	923,598	1,013.0	935.6
10/10/2021	24.0	40.4	1,597	2,300,123	930,055	1,013.0	942.1
10/11/2021	24.0	40.4	1,561	2,247,854	908,920	1,013.0	920.7
10/12/2021	24.0	40.4	1,570	2,260,991	914,232	1,013.0	926.1
10/13/2021	24.0	40.4	1,590	2,289,945	925,939	1,013.0	938.0
10/14/2021	24.0	40.4	1,585	2,282,765	923,036	1,013.0	935.0
10/15/2021	24.0	40.4	1,594	2,294,732	927,875	1,013.0	939.9
10/16/2021	24.0	40.4	1,603	2,307,884	933,193	1,013.0	945.3
10/17/2021	24.0	40.4	1,568	2,258,584	913,258	1,013.0	925.1
10/18/2021	24.0	40.4	1,547	2,227,411	900,654	1,013.0	912.4
10/19/2021	24.0	40.4	1,575	2,268,693	917,346	1,013.0	929.3
10/20/2021	17.7	40.4	1,591	1,686,791	682,054	1,013.0	690.9
10/21/2021	12.6	40.4	1,662	1,256,579	508,098	1,013.0	514.7
10/22/2021	16.8	40.4	1,688	1,701,671	688,071	1,013.0	697.0
10/23/2021	24.0	40.4	1,650	2,375,735	960,628	1,013.0	973.1
10/24/2021	24.0	40.4	1,545	2,224,337	899,411	1,013.0	911.1
10/25/2021	7.3	40.4	1,201	528,311	213,623	1,013.0	216.4
10/26/2021	13.1	40.4	1,669	1,315,065	531,747	1,013.0	538.7
10/27/2021	24.0	40.4	1,610	2,318,098	937,323	1,013.0	949.5
10/28/2021	24.0	40.4	1,541	2,218,395	897,008	1,013.0	908.7
10/29/2021	24.0	40.4	1,518	2,185,686	883,782	1,013.0	895.3
10/30/2021	24.0	40.4	1,498	2,157,699	872,466	1,013.0	883.8
10/31/2021	24.0	40.4	1,485	2,138,486	864,697	1,013.0	875.9
<b>Totals/ Average:</b>	<b>691.53</b>	<b>40.4</b>	<b>1,595</b>	<b>66,345,058</b>	<b>26,826,624</b>	<b>1013.0</b>	<b>27,175</b>
						<b>Maximum:</b>	<b>1,024</b>

**Notes:**

\*Methane content determined from flare A-17-Starting April 9, 2021,Methane content determined from flare A-17 February 18, 2021 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

November-21

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
11/1/2021	24.0	40.4	1,488	2,143,030	866,534	1,013.0	877.8
11/2/2021	24.0	40.4	1,569	2,259,562	913,654	1,013.0	925.5
11/3/2021	24.0	40.4	1,685	2,426,134	981,007	1,013.0	993.8
11/4/2021	24.0	40.4	1,735	2,498,941	1,010,447	1,013.0	1,023.6
11/5/2021	24.0	40.4	1,721	2,477,973	1,001,968	1,013.0	1,015.0
11/6/2021	24.0	40.4	1,706	2,456,355	993,227	1,013.0	1,006.1
11/7/2021	25.0	40.4	1,700	2,550,609	1,031,339	1,013.0	1,044.7
11/8/2021	24.0	40.4	1,690	2,433,527	983,997	1,013.0	996.8
11/9/2021	24.0	40.4	1,678	2,416,650	977,172	1,013.0	989.9
11/10/2021	24.0	40.4	1,707	2,458,019	993,900	1,013.0	1,006.8
11/11/2021	24.0	40.4	1,714	2,468,041	997,952	1,013.0	1,010.9
11/12/2021	24.0	40.4	1,709	2,461,161	995,170	1,013.0	1,008.1
11/13/2021	24.0	40.4	1,707	2,458,205	993,975	1,013.0	1,006.9
11/14/2021	24.0	40.4	1,702	2,451,401	991,224	1,013.0	1,004.1
11/15/2021	24.0	40.4	1,720	2,477,107	1,001,618	1,013.0	1,014.6
11/16/2021	24.0	40.4	1,737	2,501,218	1,011,367	1,013.0	1,024.5
11/17/2021	24.0	40.4	1,730	2,491,682	1,007,512	1,013.0	1,020.6
11/18/2021	24.0	40.4	1,729	2,490,402	1,006,994	1,013.0	1,020.1
11/19/2021	24.0	40.4	1,724	2,482,624	1,003,849	1,013.0	1,016.9
11/20/2021	24.0	40.4	1,720	2,477,112	1,001,620	1,013.0	1,014.6
11/21/2021	24.0	40.4	1,721	2,477,757	1,001,881	1,013.0	1,014.9
11/22/2021	24.0	40.4	1,719	2,474,651	1,000,625	1,013.0	1,013.6
11/23/2021	24.0	40.4	1,709	2,460,612	994,948	1,013.0	1,007.9
11/24/2021	22.8	40.4	1,705	2,329,659	941,998	1,013.0	954.2
11/25/2021	24.0	40.4	1,731	2,493,085	1,008,079	1,013.0	1,021.2
11/26/2021	24.0	40.4	1,721	2,477,651	1,001,838	1,013.0	1,014.9
11/27/2021	24.0	40.4	1,711	2,464,301	996,440	1,013.0	1,009.4
11/28/2021	24.0	40.4	1,706	2,457,149	993,548	1,013.0	1,006.5
11/29/2021	24.0	40.4	1,705	2,454,754	992,580	1,013.0	1,005.5
11/30/2021	24.0	40.4	1,696	2,442,290	987,540	1,013.0	1,000.4
<b>Totals/ Average:</b>	<b>719.77</b>	<b>40.4</b>	<b>1,700</b>	<b>73,411,662</b>	<b>29,684,006</b>	<b>1013.0</b>	<b>30,070</b>
						<b>Maximum:</b>	<b>1,045</b>

**Notes:**

\*Methane content determined from flare A-17-Starting April 9, 2021,Methane content determined from flare A-17 February 18, 2021 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

December-21

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
12/1/2021	24.0	40.4	1,668	2,401,254	970,947	1,013.0	983.6
12/2/2021	24.0	40.4	1,636	2,355,594	952,484	1,013.0	964.9
12/3/2021	24.0	40.4	1,557	2,241,821	906,480	1,013.0	918.3
12/4/2021	24.0	40.4	1,512	2,177,628	880,524	1,013.0	892.0
12/5/2021	24.0	40.4	1,516	2,183,711	882,984	1,013.0	894.5
12/6/2021	24.0	40.4	1,455	2,095,505	847,317	1,013.0	858.3
12/7/2021	24.0	40.4	1,408	2,027,089	819,653	1,013.0	830.3
12/8/2021	24.0	40.4	1,406	2,025,171	818,878	1,013.0	829.5
12/9/2021	22.8	40.4	1,451	1,982,037	801,437	1,013.0	811.9
12/10/2021	24.0	40.4	1,425	2,052,453	829,909	1,013.0	840.7
12/11/2021	24.0	40.4	1,425	2,051,654	829,586	1,013.0	840.4
12/12/2021	24.0	40.4	1,418	2,042,515	825,891	1,013.0	836.6
12/13/2021	24.0	40.4	1,419	2,043,580	826,322	1,013.0	837.1
12/14/2021	24.0	40.4	1,435	2,065,854	835,328	1,013.0	846.2
12/15/2021	24.0	40.4	1,436	2,067,878	836,146	1,013.0	847.0
12/16/2021	24.0	40.4	1,437	2,069,125	836,651	1,013.0	847.5
12/17/2021	24.0	40.4	1,431	2,059,993	832,958	1,013.0	843.8
12/18/2021	24.0	40.4	1,429	2,058,010	832,156	1,013.0	843.0
12/19/2021	24.0	40.4	1,430	2,058,991	832,553	1,013.0	843.4
12/20/2021	24.0	40.4	1,416	2,038,655	824,330	1,013.0	835.0
12/21/2021	24.0	40.4	1,431	2,060,931	833,337	1,013.0	844.2
12/22/2021	24.0	40.4	1,418	2,041,218	825,366	1,013.0	836.1
12/23/2021	22.4	40.4	1,470	1,979,163	800,275	1,013.0	810.7
12/24/2021	24.0	40.4	1,448	2,085,136	843,125	1,013.0	854.1
12/25/2021	24.0	40.4	1,422	2,047,859	828,052	1,013.0	838.8
12/26/2021	24.0	40.4	1,424	2,050,971	829,310	1,013.0	840.1
12/27/2021	24.0	40.4	1,427	2,055,193	831,017	1,013.0	841.8
12/28/2021	24.0	40.4	1,421	2,046,950	827,684	1,013.0	838.4
12/29/2021	24.0	40.4	1,413	2,034,874	822,801	1,013.0	833.5
12/30/2021	24.0	40.4	1,424	2,050,975	829,312	1,013.0	840.1
12/31/2021	24.0	40.4	1,408	2,027,098	819,657	1,013.0	830.3
<b>Totals/ Average:</b>	<b>741.20</b>	<b>40.4</b>	<b>1,452</b>	<b>64,578,886</b>	<b>26,112,473</b>	<b>1013.0</b>	<b>26,452</b>
						<b>Maximum:</b>	<b>984</b>

**Notes:**

\*Methane content determined from flare A-17-Starting April 9, 2021,Methane content determined from flare A-17 February 18, 2021 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane



# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

January-22

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
1/1/2022	24.0	40.4	1,400	2,016,648	815,432	1,013.0	826.0
1/2/2022	24.0	40.4	1,416	2,039,230	824,563	1,013.0	835.3
1/3/2022	24.0	40.4	1,417	2,040,687	825,152	1,013.0	835.9
1/4/2022	24.0	40.4	1,512	2,176,875	880,219	1,013.0	891.7
1/5/2022	24.0	40.4	1,582	2,277,950	921,089	1,013.0	933.1
1/6/2022	24.0	40.4	1,589	2,288,633	925,409	1,013.0	937.4
1/7/2022	24.0	40.4	1,577	2,270,358	918,019	1,013.0	930.0
1/8/2022	24.0	40.4	1,582	2,277,472	920,896	1,013.0	932.9
1/9/2022	24.0	40.4	1,578	2,272,357	918,828	1,013.0	930.8
1/10/2022	24.0	40.4	1,645	2,369,425	958,077	1,013.0	970.5
1/11/2022	24.0	40.4	1,833	2,639,289	1,067,197	1,013.0	1,081.1
1/12/2022	24.0	40.4	1,662	2,393,406	967,774	1,013.0	980.4
1/13/2022	24.0	40.4	1,693	2,437,914	985,771	1,013.0	998.6
1/14/2022	24.0	40.4	1,819	2,619,063	1,059,018	1,013.0	1,072.8
1/15/2022	24.0	40.4	1,700	2,448,101	989,890	1,013.0	1,002.8
1/16/2022	24.0	40.4	1,710	2,461,688	995,384	1,013.0	1,008.3
1/17/2022	24.0	40.4	1,690	2,432,998	983,783	1,013.0	996.6
1/18/2022	23.1	40.4	1,723	2,387,687	965,461	1,013.0	978.0
1/19/2022	24.0	40.4	1,707	2,458,470	994,082	1,013.0	1,007.0
1/20/2022	24.0	40.4	1,694	2,438,918	986,176	1,013.0	999.0
1/21/2022	24.0	40.4	1,690	2,433,052	983,805	1,013.0	996.6
1/22/2022	24.0	40.4	1,683	2,423,020	979,748	1,013.0	992.5
1/23/2022	24.0	40.4	1,673	2,409,610	974,326	1,013.0	987.0
1/24/2022	24.0	40.4	1,672	2,406,990	973,266	1,013.0	985.9
1/25/2022	21.4	40.4	1,714	2,200,668	889,840	1,013.0	901.4
1/26/2022	24.0	40.4	1,706	2,456,951	993,468	1,013.0	1,006.4
1/27/2022	24.0	40.4	1,682	2,422,002	979,337	1,013.0	992.1
1/28/2022	24.0	40.4	1,678	2,415,667	976,775	1,013.0	989.5
1/29/2022	24.0	40.4	1,687	2,428,850	982,105	1,013.0	994.9
1/30/2022	24.0	40.4	1,678	2,416,111	976,954	1,013.0	989.7
1/31/2022	24.0	40.4	1,658	2,386,839	965,118	1,013.0	977.7
<b>Totals/ Average:</b>	<b>740.50</b>	<b>40.4</b>	<b>1,647</b>	<b>73,146,929</b>	<b>29,576,961</b>	<b>1013.0</b>	<b>29,961</b>
<b>Notes:</b>						<b>Maximum:</b>	<b>1,081</b>

\*Methane content determined from flare A-17-Starting April 9, 2021,Methane content determined from flare A-17 February 18, 2021 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

February-22

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
2/1/2022	24.0	40.4	1,649	2,374,790	960,246	1,013.0	972.7
2/2/2022	24.0	40.4	1,691	2,435,520	984,803	1,013.0	997.6
2/3/2022	24.0	40.4	1,740	2,505,475	1,013,089	1,013.0	1,026.3
2/4/2022	24.0	40.4	1,776	2,557,804	1,034,248	1,013.0	1,047.7
2/5/2022	24.0	40.4	1,803	2,596,558	1,049,918	1,013.0	1,063.6
2/6/2022	24.0	40.4	1,799	2,591,090	1,047,707	1,013.0	1,061.3
2/7/2022	24.0	40.4	1,810	2,606,946	1,054,119	1,013.0	1,067.8
2/8/2022	24.0	40.4	1,821	2,621,838	1,060,140	1,013.0	1,073.9
2/9/2022	24.0	40.4	1,829	2,633,405	1,064,817	1,013.0	1,078.7
2/10/2022	24.0	40.4	1,832	2,637,478	1,066,464	1,013.0	1,080.3
2/11/2022	24.0	40.4	1,831	2,637,024	1,066,281	1,013.0	1,080.1
2/12/2022	24.0	40.4	1,819	2,619,078	1,059,024	1,013.0	1,072.8
2/13/2022	24.0	40.4	1,820	2,621,175	1,059,872	1,013.0	1,073.7
2/14/2022	24.0	40.4	1,791	2,579,048	1,042,838	1,013.0	1,056.4
2/15/2022	23.8	40.4	1,813	2,588,688	1,046,736	1,013.0	1,060.3
2/16/2022	24.0	40.4	1,794	2,583,016	1,044,443	1,013.0	1,058.0
2/17/2022	24.0	40.4	1,780	2,563,578	1,036,583	1,013.0	1,050.1
2/18/2022	24.0	40.4	1,780	2,563,898	1,036,712	1,013.0	1,050.2
2/19/2022	24.0	40.4	1,782	2,565,384	1,037,313	1,013.0	1,050.8
2/20/2022	24.0	40.4	1,775	2,555,698	1,033,396	1,013.0	1,046.8
2/21/2022	24.0	40.4	1,745	2,512,927	1,016,102	1,013.0	1,029.3
2/22/2022	24.0	40.4	1,735	2,498,277	1,010,178	1,013.0	1,023.3
2/23/2022	24.0	40.4	1,712	2,465,751	997,026	1,013.0	1,010.0
2/24/2022	19.8	40.4	1,817	2,161,702	874,084	1,013.0	885.4
2/25/2022	24.0	40.4	1,805	2,599,552	1,051,129	1,013.0	1,064.8
2/26/2022	24.0	40.4	1,786	2,571,580	1,039,818	1,013.0	1,053.3
2/27/2022	24.0	40.4	1,796	2,585,841	1,045,585	1,013.0	1,059.2
2/28/2022	24.0	40.4	1,808	2,603,566	1,052,752	1,013.0	1,066.4
<b>Totals/ Average:</b>	<b>667.63</b>	<b>40.4</b>	<b>1,784</b>	<b>71,436,687</b>	<b>28,885,424</b>	<b>1013.0</b>	<b>29,261</b>
						<b>Maximum:</b>	<b>1,080</b>

**Notes:**

\*Methane content determined from flare A-17-Starting April 9, 2021,Methane content determined from flare A-17 February 18, 2021 source test.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

# Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-17

MONTH:

March-22

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
3/1/2022	24.0	40.4	1,796	2,585,740	1,045,544	1,013.0	1,059.1
3/2/2022	24.0	40.4	1,795	2,585,420	1,045,415	1,013.0	1,059.0
3/3/2022	24.0	40.4	1,781	2,564,549	1,036,975	1,013.0	1,050.5
3/4/2022	24.0	40.4	1,762	2,537,691	1,026,115	1,013.0	1,039.5
3/5/2022	24.0	40.4	1,757	2,529,394	1,022,760	1,013.0	1,036.1
3/6/2022	24.0	40.4	1,761	2,536,461	1,025,618	1,013.0	1,039.0
3/7/2022	24.0	40.4	1,770	2,549,381	1,030,842	1,013.0	1,044.2
3/8/2022	24.0	40.4	1,793	2,582,558	1,044,257	1,013.0	1,057.8
3/9/2022	24.0	40.4	1,786	2,571,619	1,039,834	1,013.0	1,053.4
3/10/2022	24.0	40.4	1,754	2,525,867	1,021,334	1,013.0	1,034.6
3/11/2022	18.2	40.4	1,843	2,015,831	815,101	1,013.0	825.7
3/12/2022	24.0	40.4	1,825	2,627,557	1,062,453	1,013.0	1,076.3
3/13/2022	23.0	40.4	1,793	2,474,204	1,000,444	1,013.0	1,013.5
3/14/2022	24.0	40.4	1,800	2,591,880	1,048,027	1,013.0	1,061.7
3/15/2022	24.0	40.4	1,838	2,647,399	1,070,476	1,013.0	1,084.4
3/16/2022	24.0	40.4	1,827	2,631,014	1,063,851	1,013.0	1,077.7
3/17/2022	24.0	40.4	1,803	2,595,625	1,049,541	1,013.0	1,063.2
3/18/2022	24.0	40.4	1,805	2,599,753	1,051,210	1,013.0	1,064.9
3/19/2022	24.0	40.4	1,770	2,548,478	1,030,477	1,013.0	1,043.9
3/20/2022	24.0	40.4	1,759	2,532,469	1,024,004	1,013.0	1,037.3
3/21/2022	24.0	40.4	1,780	2,562,920	1,036,317	1,013.0	1,049.8
3/22/2022	24.0	40.4	1,804	2,598,282	1,050,615	1,013.0	1,064.3
3/23/2022	24.0	40.4	1,793	2,581,445	1,043,807	1,013.0	1,057.4
3/24/2022	24.0	40.4	1,790	2,577,144	1,042,068	1,013.0	1,055.6
3/25/2022	24.0	40.4	1,783	2,568,086	1,038,406	1,013.0	1,051.9
3/26/2022	24.0	40.4	1,782	2,566,198	1,037,642	1,013.0	1,051.1
3/27/2022	24.0	40.4	1,767	2,544,253	1,028,769	1,013.0	1,042.1
3/28/2022	24.0	40.4	1,729	2,489,665	1,006,696	1,013.0	1,019.8
3/29/2022	24.0	40.4	1,733	2,495,582	1,009,089	1,013.0	1,022.2
3/30/2022	24.0	40.4	1,753	2,524,188	1,020,655	1,013.0	1,033.9
3/31/2022	24.0	40.4	1,751	2,520,852	1,019,307	1,013.0	1,032.6
<b>Totals/ Average:</b>	<b>737.23</b>	<b>40.4</b>	<b>1,783</b>	<b>78,861,505</b>	<b>31,887,650</b>	<b>1013.0</b>	<b>32,302</b>
						<b>Maximum:</b>	<b>1,084</b>

**Notes:**

\*Methane content determined from flare A-17 February 18, 2021 source test results.

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH<sub>4</sub>= methane

## **APPENDIX M**

### **GAS MIGRATION MONITORING REPORTS**



**Guadalupe Rubbish Disposal Company, Inc.**  
 15999 Guadalupe Mines Road  
 PO Box 20957  
 San Jose, California 95160  
 T: 408.268.1670

March 30, 2022

Ms. Becky Azevedo  
 Guadalupe Recycling & Disposal Facility  
 15999 Guadalupe Mines Road  
 San Jose, CA 95120

**Re: First Quarter 2022 Perimeter Gas and Methane in Structure Monitoring Report  
 Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This report for the Guadalupe Recycling & Disposal Facility (GRDF) contains the results of the First Quarter 2022 Perimeter Gas and Methane in Structure Monitoring conducted at the GRDF. All monitoring was conducted by GRDF personnel.

**REGULATORY REQUIREMENTS**

Requirements for monitoring are outlined in 40 CFR 258.23, Title 27 California Code of Regulations (CCR), Article 6, Gas Monitoring at Active and Closed Disposal Sites. These regulations require periodic monitoring to ensure that methane concentrations are less than 5 percent at the property boundary and less than 1.25 percent in on-site buildings and structures. Reporting requirements are presented in Title 27 §20934.

**MONITORING RESULTS AND MAP [TITLE 27 §20934(a)(1), (2), (3) AND (5)]**

Monitoring was conducted in accordance with 40 CFR 258.23 and Title 27, Article 6 at the locations shown in the attached map (Attachment A). Results for both probes and structures are summarized in Table 1. Field data are presented in Attachment B.

**Table 1 Monitoring Results**

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	3/17/2022; 10:53 AM	0	-0.01	Yes	Yes	
GUADGP02	3/17/2022; 10:43 AM	0	-1.18	Yes	Yes	
GUADGP03	3/17/2022; 10:06 AM	0	0.02	Yes	Yes	
GUADGP04	3/17/2022; 8:49 AM	0	-1.95	Yes	Yes	
GUADGP05	3/17/2022; 8:56 AM	0	-0.40	Yes	Yes	
GUADGP6S	3/17/2022; 9:43 AM	0	-0.06	Yes	Yes	
GUADGP6D	3/17/2022; 9:45AM	0	-0.11	Yes	Yes	

## STRUCTURE FID MONITORING DATA

**Analyst: Tino Robles**  
**Instrument: TVA 1000**

**Date: 3/2/2022**  
**Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	1:55 PM	0	
Scale House #1 Electrical Closet	1:02 PM	0	
Scale House #2 Occupied Space	1:05 PM	0	
Scale House #2 Electrical Closet	1:09 PM	0	
Scale House #3 Occupied Space	1:11 PM	0	
Scale House #3 Electrical Closet	1:15 PM	0	
Admin Office Crawl Space	12:25 PM	0	
Admin Office Electrical Closet	12:20 PM	0	
Admin Trailer	12:35 PM	0	
Security Trailer	12:40 PM	0	
MRF Scale House	1:50 PM	0	
MRF Building East Electrical	1:52 PM	0	
Maintenance Building Office Outlet	2:39 PM	0	
Maintenance Building Kitchen Outlet	2:43 PM	0	
Maintenance Building Office Outlet	2:45 PM	0	
Maintenance Building Electrical Box	2:40 PM	0	
Scale House #1 Occupied Space	1:55 PM	0	

**Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.**

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

- (1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.
- (2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH<sub>4</sub> = 12,500 ppm CH<sub>4</sub>

No exceedances of Subtitle D (40 CFR 258.23) and California Code of Regulations (CCR) Title 27, Division 2, Section 20919.5 were detected during the monitoring events.

### MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

#### Perimeter Gas Monitoring

The First Quarter 2022 monitoring was conducted by Tino Robles on March 17, 2022, using a GEM 5000. The static pressure of each probe was monitored using the GEM 5000. Following the measurement of the static pressure, the probes were monitored to determine methane concentration.

## Facility Structures

Tino Robles used a Toxic Vapor Analyzer (TVA1000) to monitor buildings and structures to check for the presence of methane on March 2, 2022. The instrument was calibrated on March 2, 2022, using 500 parts per million by volume (ppm<sub>v</sub>) methane standard.

## Combustible Methane Gas Monitor Calibration

Some facility structures are monitored continuously using Sierra Monitors. The monitor is calibrated at a frequency determined by the manufacturer. This event was conducted by Tino Robles on March 2, 2022.

## GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions at the time of monitoring are presented in Table 2.

**Table 2 General Weather Conditions**

<b>Description</b>	<b>3/17/2022</b>
General Conditions	Cloudy
Temperature (°F) Low/High	64/70
Wind Speed (mph)	11.2
Wind Direction	NNW
Barometric Pressure ("Hg)	30.17

## CLOSING

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com.

Thank you,

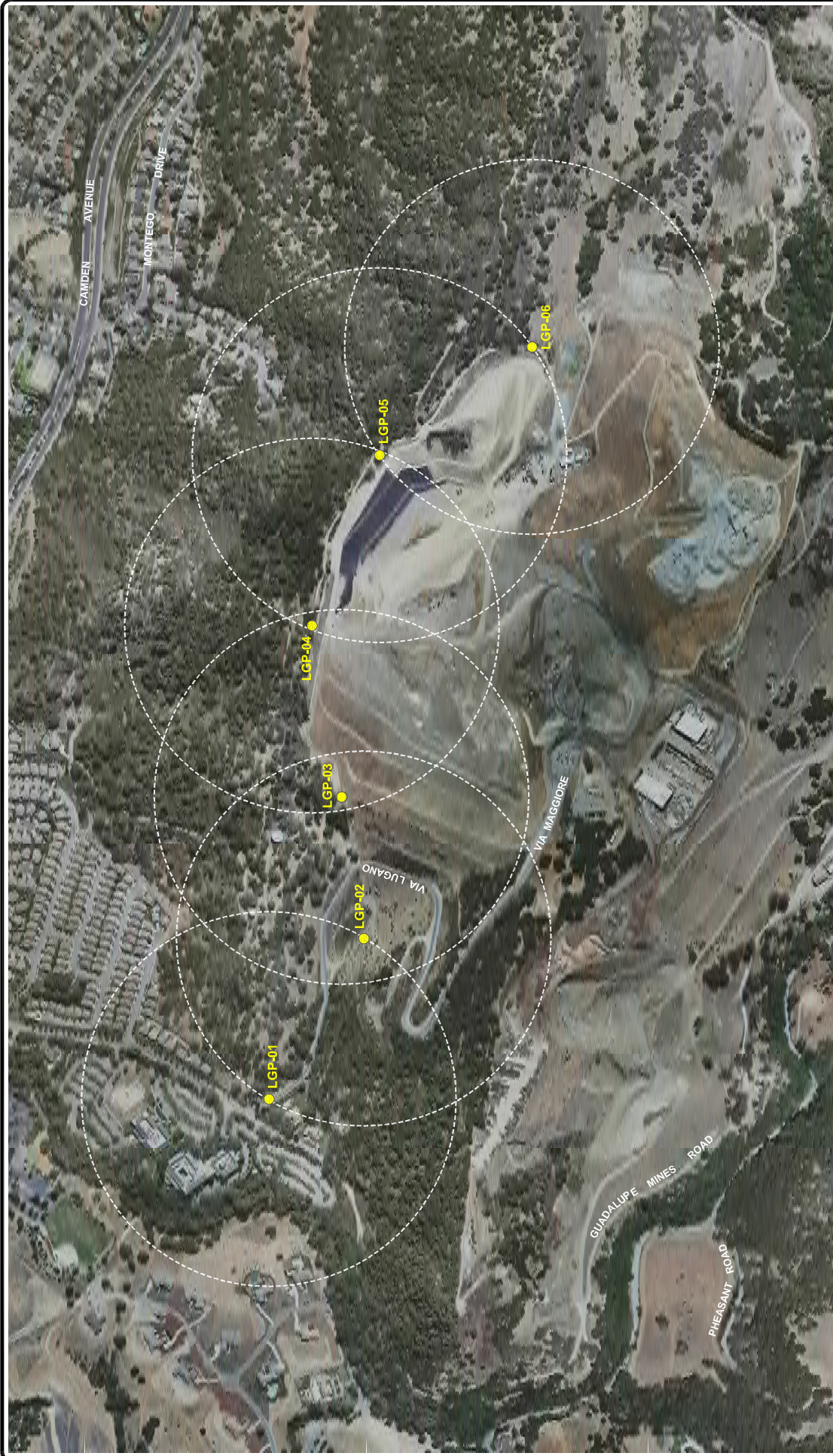
Waste Management,



Rajan Phadnis  
Environmental Protection Specialist

**ATTACHMENT A**  
**PROBE LOCATION MAP**





<b>TITLE:</b> PERIMETER GAS PROBE LOCATIONS	
<b>LOCATION:</b> Guadalupe Rubbish Disposal Company, Inc. 15999 Guadalupe Mines Roads, San Jose CA	
<b>APPROVED:</b> KH	<b>FIGURE:</b> 1
<b>DRAFTED:</b> CP	<b>PROJECT #:</b> 117-2402070.01
<b>DATE:</b> 10-7-08	



- LEGEND**
- LGP-04 ● LFG MIGRATION MONITORING PROBE AND DESIGNATION
  - 1000 FT RADIUS FROM LFG MIGRATION MONITORING PROBE

**ATTACHMENT B**

**FIELD DATA**

## Guadalupe Rubbish Disposal Facility Perimeter Gas Monitoring Probe Results

**Analyst:** Robles

**Date:** 3/17/22

**Instrument:** Gem5000 Serial #: G502468

**Atmospheric Temperature (Deg F):** 54

**Barometric Pressure:** 30\_\_ Inch of HG

**Wind Speed:** 10 mph **Wind Direction:** \_\_N

**Weather Condition:** Sunny

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	10:53 AM	0	-0.01	Yes	Yes	
GUADGP02	10:43 AM	0	-1.18	Yes	Yes	
GUADGP03	10:06 AM	0	0.02	Yes	Yes	
GUADGP04	8:49 AM	0	-1.95	Yes	Yes	
GUADGP05	8:56 AM	0	-0.40	Yes	Yes	
GUADGP6S	9:43 AM	0	-0.06	Yes	Yes	
GUADGP6D	9:45AM	0	-0.11	Yes	Yes	

**Immediately notify compliance personnel of any readings in excess of 5 percent methane.**

### STRUCTURE FID MONITORING DATA

**Analyst:** Robles

**Date:** 3/2/2022

**Instrument:** TVA 1000

**Serial #:** 0928538411

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	1:55 PM	0	
Scale House #1 Electrical Closet	1:02 PM	0	
Scale House #2 Occupied Space	1:05 PM	0	
Scale House #2 Electrical Closet	1:09 PM	0	
Scale House #3 Occupied Space	1:11 PM	0	
Scale House #3 Electrical Closet	1:15 PM	0	
Admin Office Crawl Space	12:25 PM	0	
Admin Office Electrical Closet	12:20 PM	0	
Admin Trailer	12:35 PM	0	
Security Trailer	12:40 PM	0	
MRF Scale House	1:50 PM	0	
MRF Building East Electrical	1:52 PM	0	
Maintenance Building Office Outlet	2:39 PM	0	
Maintenance Building Kitchen Outlet	2:43 PM	0	
Maintenance Building Office Outlet	2:45 PM	0	
Maintenance Building Electrical Box	2:40 PM	0	

**Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.**

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH<sub>4</sub> = 12,500 ppm CH<sub>4</sub>



GAS DETECTOR CALIBRATION RECORD

LOCATION: Guadalupe Recycling and Disposal Inc.

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #0908401174M

CALIBRATED BY/INSTRUMENT USED: / Sierra Monitor Corporation

CALIBRATION GAS EXPIRATION DATE: June 16, 2023

LOCATION	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED/ COMMENTS ON MONITOR CONDITION
Scale House #1	3-2-22	1500700093GAM	Yes	Good Condition
Scale House #2	3-2-22	1500700098GAM	Yes	Good Condition
Scale House #3	3-2-22	1500700101GAM	Yes	Good Condition
Admin. Trailer	3-2-22	1500700097GAM	Yes	Good Condition
Main Office	3-2-22	1500700090GAM	Yes	Good Condition
MRF Scale House	3-2-22	1500700099GAM	Yes	Good Condition
Materials Yard Trailer	3-2-22	1500700091GAM	Yes	Good Condition
Shop Office #1	3-2-22	1500700010GAM	Yes	Good Condition
Shop Office #2	3-2-22	1500700094GAM	Yes	Good Condition
Shop Office #3	3-2-22	1500700095GAM	Yes	Good Condition
Kitchen #4	3-2-22	1500700092GAM	Yes	Good Condition

**\*This form must be retained for 12 months after completion**

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 3/2/22  
Time:      AM 12:15 PM  
Instrument Make: TVA 1000B Model: Thermal S/N: 0928538411

## Calibration Procedure

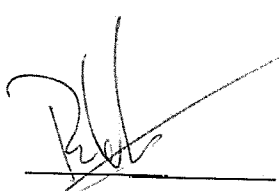
1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.  
Stable Reading = 505 ppm
3. Adjust meter to read 500 ppm.

## Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 2 ppm (a)
2. Downwind Reading (highest in 30 seconds): 1 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{1.5} \text{ ppm}$$

Performed By: 

# CALIBRATION PRECISION TEST RECORD

Date: 12-14-21

Expiration Date (3 months): 3/14/22

Time: 030 AM \_\_\_\_\_ PM

Instrument Make: TVA 1000B Model: Thermal S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 505 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 499 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 505 ppm (f)

Calculate Precision:

$$\frac{\{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|\}}{3} \times \frac{1}{500} \times 100$$

\_\_\_\_\_ % (must be < than 10%)

Performed By: Polles

# RESPONSE TIME TEST RECORD

Date: 12-14-21

Expiration Date (3 months): 3-14-22

Time: 030 AM \_\_\_\_\_ PM

Instrument Make: TVA 1000B Model: Thermal S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm  
90% of the Stabilized Reading: 450 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 5 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 500 ppm  
90% of the Stabilized Reading: 450 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 6 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 498 ppm  
90% of the Stabilized Reading: 450 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 4 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \frac{5 + 6 + 4}{3} = \underline{5} \text{ seconds (must be less than 30 seconds)}$$

Performed By: [Signature]



WASTE MANAGEMENT  
 910 Coyote Creek Golf Drive,  
 San Jose, CA 95037

January 31, 2022

Ms. Becky Azevedo  
 Guadalupe Recycling & Disposal Facility  
 15999 Guadalupe Mines Road  
 San Jose, CA 95120

**Re: Fourth Quarter 2021 Perimeter Gas and Methane in Structure Monitoring Report  
 Guadalupe Recycling & Disposal Facility**

Dear Ms. Azevedo:

This report for the Guadalupe Recycling & Disposal Facility (GRDF) contains the results of the Fourth Quarter 2021 Perimeter Gas and Methane in Structure Monitoring conducted at the GRDF. All monitoring was conducted by GRDF personnel.

**REGULATORY REQUIREMENTS**

Requirements for monitoring are outlined in 40 CFR 258.23, Title 27 California Code of Regulations (CCR), Article 6, Gas Monitoring at Active and Closed Disposal Sites. These regulations require periodic monitoring to ensure that methane concentrations are less than 5 percent at the property boundary and less than 1.25 percent in on-site buildings and structures. Reporting requirements are presented in Title 27 §20934.

**MONITORING RESULTS AND MAP [TITLE 27 §20934(a)(1), (2), (3) AND (5)]**

Monitoring was conducted in accordance with 40 CFR 258.23 and Title 27, Article 6 at the locations shown in the attached map (Attachment A). Results for both probes and structures are summarized in Table 1. Field data are presented in Attachment B.

**Table 1 Monitoring Results**

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	12/21/2021;4:00 PM	0	0.01	Yes	Yes	
GUADGP02	12/21/2021;3:48 PM	0	0.02	Yes	Yes	
GUADGP03	12/21/2021;3:41 PM	0	0.00	Yes	Yes	
GUADGP04	12/21/2021;3:18 PM	0	-0.64	Yes	Yes	
GUADGP05	12/21/2021;3:29 PM	0	-0.14	Yes	Yes	
GUADGP6S	12/21/2021;3:06 PM	0	0.02	Yes	Yes	
GUADGP6D	12/21/2021;3:08 PM	0	-0.01	Yes	Yes	



## STRUCTURE FID MONITORING DATA

**Analyst: Tino Robles**  
**Instrument: TVA 1000**

**Date: 12/14/2021**  
**Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	8:55 AM	0	
Scale House #1 Electrical Closet	9:02 AM	0	
Scale House #2 Occupied Space	9:05 AM	115	Near the back side of wall
Scale House #2 Electrical Closet	9:07 AM	0	
Scale House #3 Occupied Space	9:10 AM	0	
Scale House #3 Electrical Closet	9:12 AM	0	
Admin Office Crawl Space	9:25 AM	0	
Admin Office Electrical Closet	9:20 AM	0	
Admin Trailer	9:35 AM	0	
Security Trailer	9:40 AM	0	
MRF Scale House	9:50 AM	0	
MRF Building East Electrical	9:52 AM	0	
Maintenance Building Office Outlet	10:20 AM	0	
Maintenance Building Kitchen Outlet	10:25 AM	0	
Maintenance Building Office Outlet	10:30 AM	0	
Maintenance Building Electrical Box	10:35 AM	0	
Scale House #1 Occupied Space	8:55 AM	0	

**Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.**

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

- (1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.
- (2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH<sub>4</sub> = 12,500 ppm CH<sub>4</sub>

No exceedances of Subtitle D (40 CFR 258.23) and California Code of Regulations (CCR) Title 27, Division 2, Section 20919.5 were detected during the monitoring events.

### MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

#### Perimeter Gas Monitoring

The Fourth Quarter 2021 monitoring was conducted by Tino Robles on December 21, 2021, using a GEM 5000. The static pressure of each probe was monitored using the GEM 5000. Following the measurement of the static pressure, the probes were monitored to determine methane concentration.

## Facility Structures

Tino Robles used a Toxic Vapor Analyzer (TVA1000) to monitor buildings and structures to check for the presence of methane on December 14, 2021. The instrument was calibrated on December 14, 2021, using 500 parts per million by volume (ppm<sub>v</sub>) methane standard.

## Combustible Methane Gas Monitor Calibration

Some facility structures are monitored continuously using Sierra Monitors. The monitor is calibrated at a frequency determined by the manufacturer. This event was conducted by Tino Robles on December 14, 2021.

## GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions at the time of monitoring are presented in Table 2.

**Table 2 General Weather Conditions**

<b>Description</b>	<b>12/21/2021</b>
General Conditions	Cloudy
Temperature (°F) Low/High	52/57
Wind Speed (mph)	4.97
Wind Direction	NNW
Barometric Pressure ("Hg)	30.09

## CLOSING

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com.

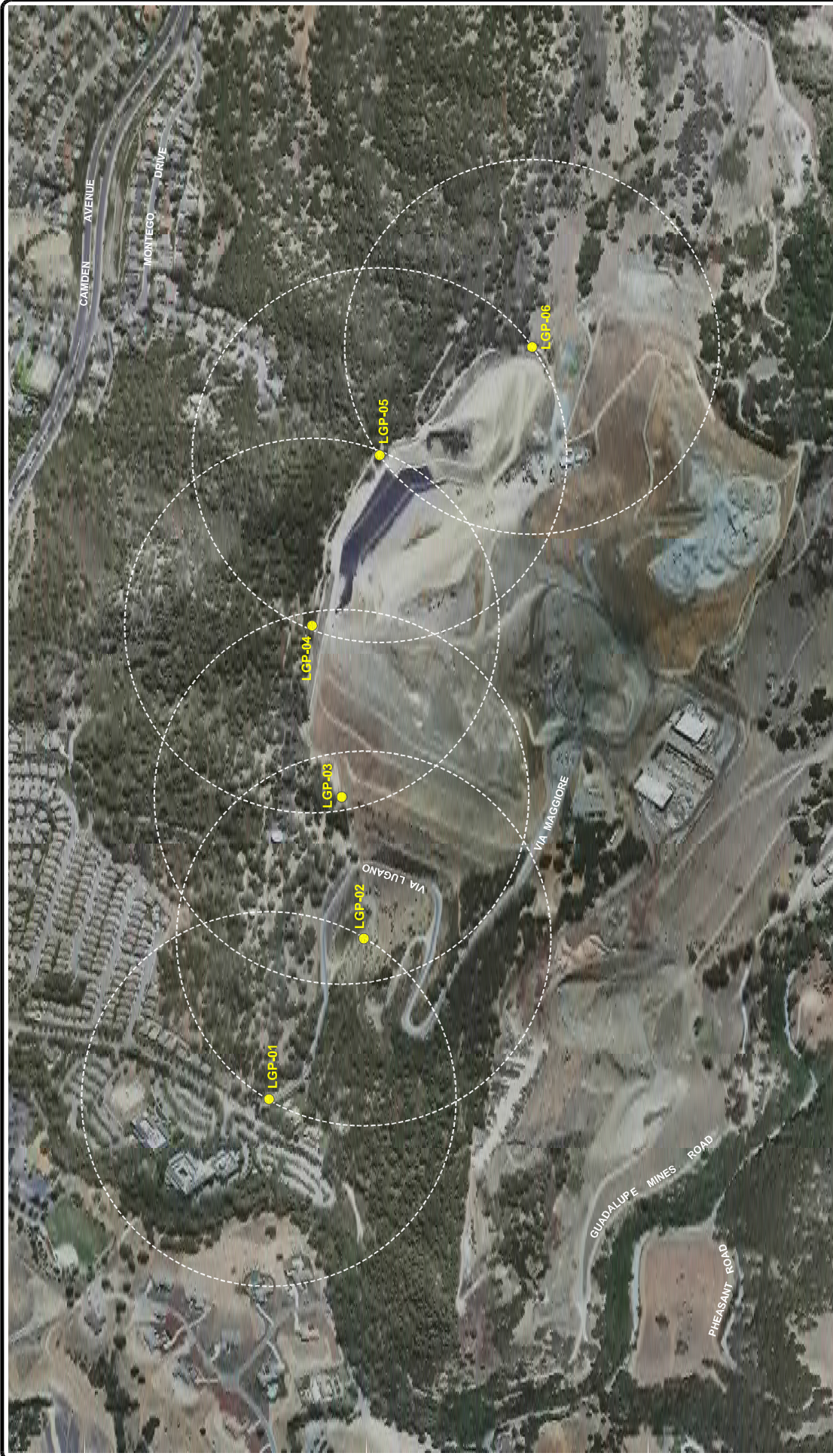
Thank you,

Waste Management,

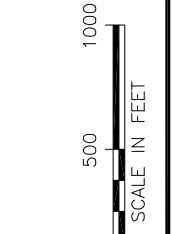


Rajan Phadnis  
Environmental Protection Specialist

**ATTACHMENT A**  
**PROBE LOCATION MAP**



<b>TITLE:</b> PERIMETER GAS PROBE LOCATIONS	
<b>LOCATION:</b> Guadalupe Rubbish Disposal Company, Inc. 15999 Guadalupe Mines Roads, San Jose CA	
<b>APPROVED:</b> KH	<b>FIGURE:</b> 1
<b>DRAFTED:</b> CP	<b>PROJECT #:</b> 117-2402070.01
<b>DATE:</b> 10-7-08	



- LEGEND**
- LGP-04 ● LFG MIGRATION MONITORING PROBE AND DESIGNATION
  - 1000 FT RADIUS FROM LFG MIGRATION MONITORING PROBE

**ATTACHMENT B**

**FIELD DATA**

## Guadalupe Rubbish Disposal Facility Perimeter Gas Monitoring Probe Results

**Analyst: Robles**

**Date: 12/21/21**

**Instrument: Gem5000 Serial #: G502649**

**Atmospheric Temperature (Deg F): 52**

**Barometric Pressure: 30 Inch of HG**

**Wind Speed: 15 mph Wind Direction: N**

**Weather Condition: Cloudy**

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	4:00 PM	0	0.01	Yes	Yes	
GUADGP02	3:48 PM	0	0.02	Yes	Yes	
GUADGP03	3:41 PM	0	0.00	Yes	Yes	
GUADGP04	3:18 PM	0	-0.64	Yes	Yes	
GUADGP05	3:29 PM	0	-0.14	Yes	Yes	
GUADGP6S	3:06 PM	0	0.02	Yes	Yes	
GUADGP6D	3:08PM	0	-0.01	Yes	Yes	

**Immediately notify compliance personnel of any readings in excess of 5 percent methane.**

### STRUCTURE FID MONITORING DATA

**Analyst: Robles**

**Date: 12/14/2021**

**Instrument: TVA 1000**

**Serial #: 0928538411**

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	8:55 AM	0	
Scale House #1 Electrical Closet	9:02 AM	0	
Scale House #2 Occupied Space	9:05 AM	115	Near the back side of wall
Scale House #2 Electrical Closet	9:07 AM	0	
Scale House #3 Occupied Space	9:10 AM	0	
Scale House #3 Electrical Closet	9:12 AM	0	
Admin Office Crawl Space	9:25 AM	0	
Admin Office Electrical Closet	9:20 AM	0	
Admin Trailer	9:35 AM	0	
Security Trailer	9:40 AM	0	
MRF Scale House	9:50 AM	0	
MRF Building East Electrical	9:52 AM	0	
Maintenance Building Office Outlet	10:20 AM	0	
Maintenance Building Kitchen Outlet	10:25 AM	0	
Maintenance Building Office Outlet	10:30 AM	0	
Maintenance Building Electrical Box	10:35 AM	0	

**Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.**

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures. (2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH<sub>4</sub> = 12,500 ppm CH<sub>4</sub>



GAS DETECTOR CALIBRATION RECORD

LOCATION: Guadalupe Recycling and Disposal Inc.

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model # 2001

CALIBRATED BY/INSTRUMENT USED: / Sierra Monitor Corporation

CALIBRATION GAS EXPIRATION DATE: June 9, 2022

LOCATION	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED/ COMMENTS ON MONITOR CONDITION
Scale House #1	12-14-21	1500700093GAM	Yes	Good Condition
Scale House #2	12-14-21	1500700098GAM	Yes	Good Condition
Scale House #3	12-14-21	1500700101GAM	Yes	Good Condition
Admin. Trailer	12-14-21	1500700097GAM	Yes	Good Condition
Main Office	12-14-21	1500700090GAM	Yes	Good Condition
MRF Scale House	12-14-21	1500700099GAM	Yes	Good Condition
Materials Yard Trailer	12-14-21	1500700091GAM	Yes	Good Condition
Shop Office #1	12-14-21	1500700010GAM	Yes	Good Condition
Shop Office #2	12-14-21	1500700094GAM	Yes	Good Condition
Shop Office #3	12-14-21	1500700095GAM	Yes	Good Condition
Kitchen #4	12-14-21	1500700092GAM	Yes	Good Condition

**\*This form must be retained for 12 months after completion**





# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 12-14-21  
Time: 8:30 AM \_\_\_\_\_ PM  
Instrument Make: TVA 100B Model: Thermal S/N: 0928538411

## Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.

2. Introduce the calibration gas into the probe.

Stable Reading = 500 ppm

3. Adjust meter to read 500 ppm.

## Background Determination Procedure

1. Upwind Reading (highest in 30 seconds):

2 ppm (a)

2. Downwind Reading (highest in 30 seconds):

1 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{1.5} \text{ ppm}$$

Performed By: T. Roldes

## **APPENDIX N**

### **SOURCE TEST SUMMARY AND RESULTS**

# Guadalupe Rubbish Disposal Facility (GRDF)

BAAQMD Facility # 3294

## Initial Compliance Test Report #21054 Landfill Gas Flare A-17

Located at:

**Guadalupe Recycling and Disposal Facility**  
15999 Guadalupe Mines Road  
San Jose, CA 95120

Prepared for:

**SCS Engineers**

3117 Fite Circle, Suite 108  
Sacramento, CA 95827

Attn: Michael O'Connor  
moconnor@scsengineers.com

For Submittal to:

**Bay Area Air Quality Management District**

375 Beale Street, Suite 600  
San Francisco, CA 94105

Attn: Gloria Espena/Marco Hernandez  
gespena@baaqmd.gov/mhernandez@baaqmd.gov  
sourcetest@baaqmd.gov

Testing Performed on:

**February 18<sup>th</sup>, 2021**

Final Report Submitted on:

**April 7<sup>th</sup>, 2021**

Performed and Reported by:

**Blue Sky Environmental, Inc.**

624 San Gabriel Avenue  
Albany, CA 94706

Office (510) 508-3469/Mobile (510) 508 3469  
bluesky@blueskyenvironmental.com



## REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that:

- a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program,
- b) that the sampling and analytical procedures and data presented in the report are authentic and accurate,
- c) that all testing details and conclusions are accurate and valid, and
- d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes it should only be reproduced in its entirety. If there are any questions concerning this report, please contact me at (925) 338-4875.

---

Chuck Arrivas, QSTI  
Project Manager  
Blue Sky Environmental, Inc.



## TABLE of CONTENTS

<b>SECTION 1. INTRODUCTION .....</b>	<b>4</b>
1.1. SUMMARY .....	4
<b>SECTION 2. SOURCE TEST PROGRAM .....</b>	<b>6</b>
2.1. OVERVIEW .....	6
2.2. POLLUTANTS TESTED .....	6
2.3. TEST DATE(S) .....	6
2.4. SAMPLING AND OBSERVING PERSONNEL .....	6
2.5. SOURCE/PROCESS DESCRIPTION .....	6
2.6. SOURCE OPERATING CONDITIONS .....	7
<b>SECTION 3. SAMPLING AND ANALYSIS PROCEDURES .....</b>	<b>8</b>
3.1. PORT LOCATION .....	8
3.2. POINT DESCRIPTION/LABELING – PORTS/STACK .....	8
3.3. SAMPLE TRAIN DESCRIPTION .....	8
3.4. SAMPLING PROCEDURE DESCRIPTION .....	8
3.5. INSTRUMENTATION AND ANALYTICAL PROCEDURES .....	11
3.6. COMMENTS: LIMITATIONS AND DATA QUALIFICATIONS .....	12
<b>SECTION 4. APPENDICES .....</b>	<b>13</b>
A. <i>Tabulated Results</i>	
B. <i>Calculations</i>	
C. <i>Laboratory Reports</i>	
D. <i>Field Data Sheets</i>	
E. <i>Strip Charts</i>	
F. <i>Process Information</i>	
G. <i>QC Calibration Certificates and Quality Assurance Records</i>	
H. <i>Sample Train Configuration and Stack Diagrams</i>	
I. <i>Related Correspondence (Source Test Plan and Email)</i>	
J. <i>BAAQMD Permit Conditions</i>	
K. <i>Flare Flow Meter Calibration Records</i>	



## SECTION 1. INTRODUCTION

### 1.1. Summary

Blue Sky Environmental, Inc. was contracted by SCS Engineers to perform the emissions testing for Waste Management (WM), at the Guadalupe Recycling and Disposal Facility (GRDF), located in San Jose, California. This initial source test was conducted to demonstrate that Landfill Gas Flare A-17 (previously Flare A-14) is operating in compliance with the Bay Area Air Quality Management District (BAAQMD) Authority to Construct 21927 for Facility #3294. Results of the test program are presented in this report. The source test information is summarized in Table 1. Test results derived from the source test are summarized in Table 2. Results for individual test runs are provided in Appendix A. The flare met all compliance emission criteria.

**Table 1. Source Test Information**

<b>Test Location:</b>	Guadalupe Recycling and Disposal Facility (GRDF), 15999 Guadalupe Mines Road, San Jose, CA 95120
<b>Source Contact:</b>	Michael O'Connor, SCS Engineers (707) 236-3791
<b>Source Tested:</b>	LFG Specialties, Inc. Enclosed Landfill Gas Flare A-17, 120 MMBtu/hr
<b>Source Test Date:</b>	February 18 <sup>th</sup> , 2020
<b>Test Objective:</b>	Determine Compliance with Bay Area Air Quality Management District (BAAQMD) Authority to Construct 21927 for Plant #3294, Condition 25320; Regulation 8, Rule 34; and the State Landfill Methane Gas Rule under AB32 for Flare performance.
<b>Test Performed By:</b>	Blue Sky Environmental, Inc 624 San Gabriel Avenue, Albany, CA 94706 Chuck Arrivas (925) 338-4875 <a href="mailto:carrivas@blueskyenvironmental.com">carrivas@blueskyenvironmental.com</a>
<b>Test Parameters:</b>	<b><u>Landfill Gas</u></b> O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , BTU, THC, CH <sub>4</sub> , NMOC, HHV, F-Factor, Sulfur Species, Volumetric Flow rate <b><u>Flare Emissions</u></b> THC, CH <sub>4</sub> , NMOC, NO <sub>x</sub> , CO, O <sub>2</sub> , SO <sub>2</sub> , Moisture, Volumetric Flow rate.



**Table 2. Compliance Summary**

**Condensate On**

<b>Emission Parameter</b>	<b>Average Results (Condensate ON)</b>	<b>Permit Limit</b>	<b>Compliance Status</b>
NO <sub>x</sub> , ppm @ 15% O <sub>2</sub>	13.3	15	In Compliance
CO, ppm @ 15% O <sub>2</sub>	1.24	81	In Compliance
SO <sub>2</sub> , ppm	51.3	300	In Compliance
NMOC, (ppm @ 3% O <sub>2</sub> as CH <sub>4</sub> )	<5.79	30	In Compliance
NMOC Destruction Efficiency	98.57	>98%	In Compliance
CH <sub>4</sub> Destruction Efficiency	>99.974	>99%	In Compliance

**Condensate Off**

<b>Emission Parameter</b>	<b>Average Results (Condensate OFF)</b>	<b>Permit Limit</b>	<b>Compliance Status</b>
NO <sub>x</sub> , ppm @ 15% O <sub>2</sub>	10.3	15	In Compliance
CO, ppm @ 15% O <sub>2</sub>	2.50	81	In Compliance
SO <sub>2</sub> , ppm	53.9	300	In Compliance
NMOC, (ppm @ 3% O <sub>2</sub> as CH <sub>4</sub> )	<2.6	30	In Compliance
NMOC Destruction Efficiency	99.53	>98%	In Compliance
CH <sub>4</sub> Destruction Efficiency	>99.973	>99%	In Compliance



## SECTION 2. SOURCE TEST PROGRAM

### 2.1. Overview

This initial source test was performed to demonstrate that landfill gas Flare A-17 (previously A-14) is operating in accordance with Bay Area Air Quality Management District (BAAQMD) Authority to Construct Application #21927 for Facility #3294, Condition 25320 and Regulation 8, Rule 34. This testing also satisfies the compliance requirements outlined in the State Landfill Methane Gas Rule under AB32 for Flare performance.

### 2.2. Pollutants Tested

The following U.S. Environmental Protection Agency (EPA) and ASTM International sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA Method 3A	O <sub>2</sub> and CO <sub>2</sub> , Stack Gas Molecular Weight
EPA Method 10	CO
EPA Method 7E	NO <sub>x</sub> and NO <sub>2</sub> Converter Check
EPA Method 4, part 16.4	Moisture Calculation
EPA Method 18	CH <sub>4</sub> , THC, NMOC
EPA Method 19	Flow Rate Calculation DSCFM
EPA Method 25A	VOC Emissions
EPA Method 25C	TNMHC (NMOC) in fuel
ASTM D-1945/3588	BTU, F-Factor and Fixed Gases in Fuel
ASTM D-5504	Sulfur Species, Hydrogen Sulfide (H <sub>2</sub> S) and TRS

### 2.3. Test Date(s)

Testing was conducted on February 18<sup>th</sup>, 2021.

### 2.4. Sampling and Observing Personnel

Testing was conducted by Chuck Arrivas and Guy Worthington, representing Blue Sky Environmental, Inc.

Rajan Phadnis, Ben Tarver and Marcus Bernard of Waste Management (WM) were present to operate the Flare and assist in coordinating testing and the collection of process data during testing. Jon Silva of SCS Engineers was also on site to coordinate and assist.

The BAAQMD was notified of the scheduled testing in a plan submitted by SCS Engineering on behalf of Waste Management on January 27<sup>th</sup>, 2021. A Source Test Protocol acknowledgement (NST #6330) was received on February 9<sup>th</sup>, 2021; however, no agency observers were present during testing. A copy of the source test protocol and email correspondence are provided in Appendix I.

### 2.5. Source/Process Description

The Guadalupe Recycling and Disposal Facility, located in San Jose, CA, is a multi-material landfill with a gas collection system that is abated by an industrial landfill gas flare. Flare A-17





has a 120 MMBtu/hr multiple nozzle burner. The flare shell is 50 feet high and 12 feet in diameter. The inside diameter (ID) is approximately 130 inches.

The flare is typically operated at an average 1,945 standard cubic feet per minute (SCFM) with the Condensate On and 1,976 SCFM with the Condensate Off. The flare set-point is established at 1,500 °F. Methane quality typically ranges from 39-41 %, with an oxygen content of  $\leq 4.5\%$ . Landfill gas condensate that is collected is periodically injected into the flare via one vertical nozzle positioned near the burner.

## **2.6. Source Operating Conditions**

The flare was operated on landfill gas under normal operating conditions during testing with the condensate injection both on and off. The condensate injection rate was approximately 1.88 gallons per minute (gpm).

The average exhaust temperature at normal operating condition was 1,499 °F. The LFG flowrate ranged from 1,937 to 1,984 SCFM. The operating exhaust temperature, and LFG flowrate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare showed an average methane content of 40.4% and an oxygen content of 4.5%.



## SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

### 3.1. Port Location

Sampling was conducted in the 130-inch diameter ID stack of the flare through ports that were accessed with a 60-foot boom lift. The four 4-inch flange ports were located approximately 45 feet above grade, five stack diameters downstream from the burners and one stack diameters upstream from the exhaust.

### 3.2. Point Description/Labeling – Ports/Stack

Blue Sky Environmental, Inc. conducted two perpendicular 8-point traverses to check for the presence of cyclonic flow. O<sub>2</sub> stratification was greater than 10%; therefore, subsequent CEM sampling was conducted using all traverse points. Sampling was performed for two minutes per point for a total of 16 points over a 32-minute test run. The traverse points for the 130-inch diameter stack with 8-inch ports were 4.2, 13.7, 25.2, 42.0, 88.0, 104.8, 116.4 and 125.8 inches from the inside wall of the stack.

### 3.3. Sample Train Description

Sampling system diagrams are included in the Appendix H. Additional descriptive information is included in the following section.

### 3.4. Sampling Procedure Description

Six consecutive 32-minute gaseous emissions tests were performed for oxides of nitrogen (NO<sub>x</sub>), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), and total hydrocarbons (THC) at the flare exhaust stack. Three tests were performed with the Condensate Injection On and three tests were performed with the Condensate Injection Off. The gas flow was controlled with a rotameter to collect the 32-minute integrated samples.

The sampling system was checked for leaks before the start of the testing, by plugging the sample probe and observing the sample rotameter flow drop to zero. Instrument linearity and system bias were checked. The system response time for each analyzer was recorded. The temperatures of the heated sample line between the probe and sample conditioner/condenser, and the condenser exhaust temperatures were maintained within limits during each test run.

Analyzer external calibrations were performed before and after each run using EPA protocol certified gas standards. Calibration gases were introduced to the sample manifold at the same flow rate as the sample. Any drift or bias was corrected using equation 100-3 from CARB Method 100. A NO<sub>x</sub> analyzer converter efficiency check was performed before the first test run and achieved an efficiency greater than 90%.

Concurrent with the exhaust sampling, Blue Sky collected a total of nine integrated fuel samples (three samples with the condensate injection on and six samples with the condensate injection off) for off-site analysis by Atmospheric Analysis & Consulting, Inc., located in Ventura, CA. The samples were collected in 6-liter SUMMA canisters and analyzed for hydrocarbons by EPA Method 25, sulfur species (incl. H<sub>2</sub>S and TRS) by ASTM D-5504, and HHV, F-factor, fixed gases, volatile organic compounds (VOCs), nonmethane organic compounds (NMOCs) and C<sup>1</sup>-C<sup>6+</sup> hydrocarbons by EPA Method 25C and ASTM D-1945. Three landfill gas samples collected while the condensate injection was off were analyzed for toxic organic compounds by EPA Method TO-15 (AP-42 2.4-1).



The sampling and analysis procedures are summarized below:

**EPA Method 1 – Sample and Velocity Traverses for Stationary Sources**

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

**EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)**

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas.

**EPA Method 10 – Determination of Carbon Monoxide Emissions from Stationary Sources**

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point.

**EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)**

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. Section 16.2.2 of the method is used to determine the NO<sub>x</sub> analyzer NO<sub>2</sub> to NO conversion efficiency.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.

The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.



### System Performance Criteria

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO <sub>x</sub> Converter Efficiency (EPA 7E)	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

#### **EPA Method 4-16.4 – Determination of Moisture Content in Stack Gas**

This is an acceptable alternative to EPA Method 4 for the determination of moisture using F-factors. The mole fraction of moisture in the ambient air is calculated using equations in EPA Method 4-16.4 from 1) the measured ambient relative humidity, ambient temperature, and barometric pressure, 2) the mole fraction of free water in the fuel, calculated from the moisture % in the fuel, which is determined by the analytical lab to be the balance after all the major gaseous components have been summed or directly measured by wet bulb, dry bulb of the landfill gas, and 3) the mole fraction of hydrogen in the fuel. To determine the moisture in the fuel, the raw fuel analysis before normalization to 100% is referenced.

#### **EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography**

This method is used to determine emissions of volatile organics by gas chromatograph/mass spectroscopy (GC/MS). Gaseous emissions are drawn through a Teflon sample transfer line to a Tedlar bag held in a rigid leak proof bag container. The sample is drawn into the bag by evacuating the container to stack gas pressure to allow sample flow without using a pump to avoid contamination. Negative pressure is adjusted to maintain an integrated sample flow for the collection time. The bag samples are taken to a laboratory and analyzed within 72 hours.

#### **EPA Method 19 – Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates**

This method is used to determine stack gas volumetric flow rates using oxygen-based F-factors. F-factors are ratios of combustion gas volumes to heat inputs. The heating value of the fuel in Btu per cubic foot is determined from analysis of fuel gas samples using ASTM D1946/1945 gas chromatography analytical procedures. The total cubic feet per hour of fuel multiplied times the Btu/cf provides million Btu per hour (MMBtu) heat input. The heat input in MMBtu/hr is multiplied by the F-factor (DSCF/MMBtu) and adjusted for the measured oxygen content of the source to determine volumetric flow rate. The flow rates are used to determine emission rates.

301.

#### **EPA Method 25A – Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer**

This method is used to measure total hydrocarbons, methane, and non-methane hydrocarbons in stationary source emissions using a gas chromatograph with a flame ionization detector (GC/FID). Heated Teflon sample gas transfer lines are used to provide a continuous sample to the heated GC/FID hydrocarbon analyzer. Heated lines are used to avoid moisture or hydrocarbon condensation.

The sampling and analytical system is checked for linearity with zero, low (25-35%), mid (45-55%), and high (80-90%) span calibrations. All calibrations during testing are performed



externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test.

**EPA Method 25C – Determination of Nonmethane Organic Compounds (NMOC) in Landfill Gas**

This method is used to sample and measure NMOC in landfill gases. The method is written for evacuated tank sampling but is adaptable to Tedlar bag sampling procedures. The sampling equipment consists of a stainless steel or glass lined probe with a short stainless-steel or Teflon transfer line to a Tedlar bag housed in a sealed chamber. The chamber is evacuated by pump at a prescribed rate for the test duration and the Tedlar bag capacity, so the sample is integrated over the test period. The sample is injected into a GC column where the methane and CO<sub>2</sub> are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO<sub>2</sub> then reduced to methane and analyzed

**ASTM D1945 – Analysis of Natural Gas by Gas Chromatography**

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

**ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels**

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

**ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence**

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed 7 days.

**3.5. Instrumentation and Analytical procedures**

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO Model 42C	NO <sub>x</sub> /NO	Chemiluminescence
TECO Model 48C	CO	GFC/IR
TECO Model 55C	NMOC/CH <sub>4</sub>	FID
CAI Fuji ZRH	CO <sub>2</sub>	IR
Servomex Model 1440	O <sub>2</sub>	Paramagnetic

The analyzer data recording system consists of a Honeywell DPR300 strip chart recorder, supported by a Data Acquisition System (DAS). The instrument response is recorded on strip charts and DAS. The averages are corrected for drift using BAAQMD and EPA Method 7E equations. All system performance criteria were met.



### 3.6. **Comments: Limitations and Data Qualifications**

This source test was performed in accordance with the protocol submitted to the BAAQMD. No deviations from the protocol or anomalies were observed during testing. The measured emissions from the flare comply with the permit limits.

Blue Sky Environmental has reviewed this report for accuracy and concluded that the test procedures were followed and accurately described and documented. The review included the following items:

- Review of the general text
- Review of calculations
- Review of CEMS data
- Review of supporting documentation

The services described in this report were performed in a manner consistent with the generally accepted professional testing principles and practices. No other warranty, expressed or implied, is made. These services were performed in a manner consistent with our agreement with our client. The report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions contained in this report pertain to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and operating parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations, subsequent to this, and do not warranty the accuracy of information supplied by others.



## SECTION 4. APPENDICES

- A. Tabulated Results
- B. Calculations
- C. Laboratory Reports
- D. Field Data Sheets
- E. Strip Charts
- F. Process Information
- G. QC Calibration Certificates and Quality Assurance Records
- H. Sample Train Configuration and Stack Diagrams
- I. Related Correspondence (Source Test Plan and Email)
- J. BAAQMD Permit Conditions
- K. Flare Flow Meter Calibration Records



Blue Sky Environmental, Inc

# A Tabulated Results



**TABLE #1**

**Guadalupe Recycling and Disposal Facility (GRDF)  
Flare A-17  
1,498°F - Condensate ON**

RUN	1	2	3	AVERAGE	LIMITS
Test Date	2/18/21	2/18/21	2/18/21		
Test Time	0857-0934	1002-1040	1106-1142		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,498	1,499	1,498	1,498	
Condensate Injection, gpm	1.87	1.86	1.92	1.88	
Fuel Flow Rate, SCFM	1,948	1,937	1,950	1,945	
Fuel Heat Input, MMBTU/hr	46.3	46.4	47.0	46.6	
Exhaust Flow Rate, DSCFM (EPA M19)	19,071	18,845	18,427	18,781	
Oxygen, O <sub>2</sub> , %	12.7	12.6	12.3	12.6	
Carbon Dioxide, CO <sub>2</sub> , %	7.3	7.3	7.2	7.2	
Water Vapor, H <sub>2</sub> O, % (EPA M4.16)	8.57	8.68	9.17	8.81	
NO, ppm	19.3	19.1	18.5	18.9	15
NO <sub>2</sub> , ppm	<1.0	<1.0	<1.0	<1.0	
NO <sub>2</sub> /NO	<0.05	<0.05	<0.05	<0.05	
NO <sub>x</sub> , ppm	19.0	18.9	18.2	18.7	
<b>NO<sub>x</sub>, ppm @ 15% O<sub>2</sub></b>	<b>13.7</b>	<b>13.5</b>	<b>12.6</b>	<b>13.3</b>	
NO <sub>x</sub> , lbs/hr	2.59	2.54	2.40	2.51	
CO, ppm	2.26	1.42	1.56	1.75	81
<b>CO, ppm @ 15% O<sub>2</sub></b>	<b>1.63</b>	<b>1.01</b>	<b>1.08</b>	<b>1.24</b>	
CO, lbs/hr	0.19	0.12	0.13	0.14	
TRS as H <sub>2</sub> S, ppm in Fuel	484	511	492	496	300
<b>SO<sub>2</sub>, ppm Exhaust (calculated)</b>	<b>49.4</b>	<b>52.5</b>	<b>52.1</b>	<b>51.3</b>	
THC, ppm wet (Sum NMOC + CH <sub>4</sub> )	<14.2	<11.0	<12.1	<12.5	30 or 98
THC, ppm dry	<15.6	<12.0	<13.3	<13.6	
THC, lbs/hr as CH <sub>4</sub>	<0.737	<0.563	<0.607	<0.636	
CH <sub>4</sub> , ppm wet (EPA ALT 097)	<10.0	<10.0	<10.0	<10.0	
CH <sub>4</sub> , ppm dry	<10.9	<10.9	<10.9	<10.9	
CH <sub>4</sub> , lbs/hr	<0.518	<0.512	<0.500	<0.510	
TNMHC, ppm as CH <sub>4</sub> (EPA ALT 097)	4.23	<1.00	2.13	<2.45	
TNMHC, ppm dry as CH <sub>4</sub>	4.63	<1.09	2.33	<2.68	
TNMHC, lbs/hr as CH <sub>4</sub>	0.219	<0.051	0.106	<0.126	
<b>TNMHC, ppm @ 3% O<sub>2</sub> as CH<sub>4</sub></b>	<b>10.14</b>	<b>&lt;2.37</b>	<b>4.87</b>	<b>&lt;5.79</b>	
INLET TNMOC (EPA M25C)	1,735	1,845	1,981	1,854	
INLET NMOC lbs/hr as CH <sub>4</sub>	8.4	8.9	9.6	9.0	
<b>NMOC Destruction Efficiency</b>	<b>97.39%</b>	<b>99.42%</b>	<b>98.89%</b>	<b>98.57%</b>	
INLET CH <sub>4</sub> , ppm	398,000	401,000	403,000	400,667	
INLET CH <sub>4</sub> lbs/hr	1,924.6	1,928.2	1,950.8	1,935	
<b>CH<sub>4</sub> Destruction Efficiency</b>	<b>&gt;99.973%</b>	<b>&gt;99.973%</b>	<b>&gt;99.974%</b>	<b>&gt;99.974%</b>	
INLET THC (TOC) ppm as CH <sub>4</sub>	399,735	402,845	404,981	402,520	
INLET THC (TOC) lbs/hr as CH <sub>4</sub>	1,933	1,937	1,960	1,943	
<b>THC (TOC) Destruction Efficiency</b>	<b>99.962%</b>	<b>99.971%</b>	<b>99.969%</b>	<b>99.967%</b>	

< Value = 2% of Analyzer Range

**WHERE,**

ppm = Parts per Million Concentration  
 Lbs/hr = Pound per Hour Emission Rate  
 Tstd. = Standard Temperature (°R = °F+460)  
 MW = Molecular Weight  
 DSCFM = Dry Standard Cubic Feet Per Minute  
 NO<sub>x</sub> = Oxides of Nitrogen as NO<sub>2</sub> (MW = 46)  
 CO = Carbon Monoxide (MW = 28)  
 TOC = THC = Total Organic Carbon as Methane including CH<sub>4</sub> (MW = 16)  
 THC = Total Hydrocarbons as Methane (MW = 16)  
 TNMOC = Total Non-Methane Hydrocarbons (MW = 16)  
 SO<sub>2</sub> = Sulfur Dioxide as SO<sub>2</sub> (MW = 64.1)

**CALCULATIONS,**

PPM @ 15% O<sub>2</sub> = ppm \* 5.9 / (20.9 - %O<sub>2</sub>)  
 PPM @ 3% O<sub>2</sub> = ppm \* 17.9 / (20.9 - %O<sub>2</sub>)  
 Lbs/hr = ppm \* 8.223 E-05 \* DSCFM \* MW / Tstd. °R  
 Lbs/day = Lbs/hr \* 24  
 Removal Efficiency = (inlet lbs/hr - outlet lbs/hr) / inlet lbs/hr  
 SO<sub>2</sub> emission ppm = H<sub>2</sub>S in fuel \* Fuel Flow/Stack Gas Flow

**TABLE #2**

**Guadalupe Recycling and Disposal Facility (GRDF)  
Flare A-17  
1,499°F - Condensate OFF**

<b>RUN</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>AVERAGE</b>	<b>LIMITS</b>
Test Date	2/18/21	2/18/21	2/18/21		
Test Time	1205-1244	1313-1350	1412-1447		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,499	1,499	1,499	1,499	
Condensate Injection, gpm	0.00	0.00	0.00	0.00	
Fuel Flow Rate, SCFM	1,965	1,978	1,984	1,976	
Fuel Heat Input, MMBTU/hr	47.9	48.4	48.3	48.2	
Exhaust Flow Rate, DSCFM (EPA M19)	20,953	21,018	22,488	21,486	
Oxygen, O <sub>2</sub> , %	13.23	13.18	13.70	13.37	
Carbon Dioxide, CO <sub>2</sub> , %	6.47	6.47	5.99	6.31	
Water Vapor, H <sub>2</sub> O, % (EPA M4.16)	7.64	7.75	7.19	7.53	
NO, ppm	13.43	13.67	12.50	13.20	
NO <sub>2</sub> , ppm	<1.0	<1.0	<1.0	<1.0	
NO <sub>2</sub> /NO	<0.07	<0.07	<0.08	<0.08	
NO <sub>x</sub> , ppm	13.30	13.67	12.39	13.12	
NO <sub>x</sub> , ppm @ 15% O <sub>2</sub>	10.2	10.4	10.2	10.3	
<b>NO<sub>x</sub>, ppm @ 15% O<sub>2</sub></b>	<b>10.2</b>	<b>10.4</b>	<b>10.2</b>	<b>10.3</b>	<b>15</b>
NO <sub>x</sub> , lbs/hr	1.99	2.05	1.99	2.01	
CO, ppm	2.55	3.05	3.90	3.17	
<b>CO, ppm @ 15% O<sub>2</sub></b>	<b>1.96</b>	<b>2.33</b>	<b>3.20</b>	<b>2.50</b>	<b>81</b>
CO, lbs/hr	0.23	0.28	0.38	0.30	
<b>TRS as H<sub>2</sub>S, ppm in Fuel</b>	<b>485</b>	<b>772</b>	<b>494</b>	<b>584</b>	
<b>SO<sub>2</sub>, ppm Exhaust (calculated)</b>	<b>45.5</b>	<b>72.7</b>	<b>43.6</b>	<b>53.9</b>	<b>300</b>
THC, ppm wet (EPA M25A)	<1.0	<1.0	<1.0	<1.0	
THC, ppm dry	<1.1	<1.1	<1.1	<1.1	
THC, lbs/hr as CH <sub>4</sub>	<0.056	<0.057	<0.060	<0.058	
CH <sub>4</sub> , ppm wet (EPA ALT 097)	<10.0	<10.0	<10.0	<10.0	
CH <sub>4</sub> , ppm dry	<10.8	<10.8	<10.8	<10.8	
CH <sub>4</sub> , lbs/hr	<0.520	<0.522	<0.558	<0.533	
TNMHC, ppm as CH <sub>4</sub> (EPA ALT 097)	<1.08	<1.08	<1.08	<1.08	
TNMHC, ppm dry as CH <sub>4</sub>	<1.2	<1.2	<1.2	<1.2	
TNMHC, lbs/hr as CH <sub>4</sub>	<0.056	<0.057	<0.060	<0.058	
<b>TNMHC, ppm @ 3% O<sub>2</sub> as CH<sub>4</sub></b>	<b>&lt;2.5</b>	<b>&lt;2.5</b>	<b>&lt;2.7</b>	<b>&lt;2.6</b>	<b>30</b>
INLET TNMOC (EPA M25C)	2,223	3,112	2,386	2,574	
INLET NMOC lbs/hr as CH <sub>4</sub>	10.8	15.3	11.8	12.6	<b>or</b>
<b>NMOC Destruction Efficiency</b>	<b>99.48%</b>	<b>99.63%</b>	<b>99.49%</b>	<b>99.53%</b>	<b>98</b>
INLET CH <sub>4</sub> , ppm	408,000	409,000	407,000	408,000	
INLET CH <sub>4</sub> lbs/hr	1,990.2	2,008.3	2,004.5	2,001	
<b>CH<sub>4</sub> Destruction Efficiency</b>	<b>&gt;99.974%</b>	<b>&gt;99.974%</b>	<b>&gt;99.972%</b>	<b>&gt;99.973%</b>	<b>99</b>
INLET THC (TOC) ppm as CH <sub>4</sub>	410,223	412,112	409,386	410,574	
INLET THC (TOC) lbs/hr as CH <sub>4</sub>	2,001	2,024	2,016	2,014	
<b>THC (TOC) Destruction Efficiency</b>	<b>99.997%</b>	<b>99.997%</b>	<b>99.997%</b>	<b>99.997%</b>	

< Value = 2% of Analyzer Range

**WHERE,**

ppm = Parts per Million Concentration  
 Lbs/hr = Pound per Hour Emission Rate  
 Tstd. = Standard Temperature (°R = °F+460)  
 MW = Molecular Weight  
 DSCFM = Dry Standard Cubic Feet per Minute  
 NO<sub>x</sub> = Oxides of Nitrogen as NO<sub>2</sub> (MW = 46)  
 CO = Carbon Monoxide (MW = 28)  
 TOC = THC = Total Organic Carbon as Methane including CH<sub>4</sub> (MW = 16)  
 THC = Total Hydrocarbons as Methane (MW = 16)  
 TNMOC = Total Non-Methane Hydrocarbons (MW = 16)  
 SO<sub>2</sub> = Sulfur Dioxide as SO<sub>2</sub> (MW = 64.1)

**CALCULATIONS,**

PPM @ 15% O<sub>2</sub> = ppm \* 5.9 / (20.9 - %O<sub>2</sub>)  
 PPM @ 3% O<sub>2</sub> = ppm \* 17.9 / (20.9 - %O<sub>2</sub>)  
 Lbs/hr = ppm \* 8.223 E-05 \* DSCFM \* MW / Tstd. °R  
 Lbs/day = Lbs/hr \* 24  
 Removal Efficiency = (inlet lbs/hr- outlet lbs/hr) / inlet lbs/hr  
 SO<sub>2</sub> emission ppm = H2S in fuel \* Fuel Flow/Stack Gas Flow

# **Guadalupe Rubbish Disposal**

**BAAQMD Facility 3294**

## **Compliance Test Report #22050**

**Landfill Gas Flare A-17**

Located at:

**Guadalupe Recycling and Disposal Facility (GRDF)**

15999 Guadalupe Mines Road

San Jose, CA 95120

Prepared for:

**SCS Engineers**

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Testing Performed on:

**February 16<sup>th</sup>, 2022**

Final Report Submitted on:

**April 8<sup>th</sup>, 2022**

Performed and Reported by:

**Blue Sky Environmental, Inc.**

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## REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that:

- a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program,
- b) that the sampling and analytical procedures and data presented in the report are authentic and accurate,
- c) that all testing details and conclusions are accurate and valid, and
- d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes, it should only be reproduced in its entirety. If there are any questions concerning this report, please contact me at (810) 923-3181.

---

Jeramie Richardson  
Project Manager  
Blue Sky Environmental, Inc.



## TABLE OF CONTENTS

<b>SECTION 1.</b>	<b>INTRODUCTION .....</b>	<b>4</b>
1.1.	SUMMARY .....	4
<b>SECTION 2.</b>	<b>SOURCE TEST PROGRAM .....</b>	<b>6</b>
2.1.	OVERVIEW .....	6
2.2.	POLLUTANTS TESTED.....	6
2.3.	TEST DATE(S).....	6
2.4.	SAMPLING AND OBSERVING PERSONNEL.....	6
2.5.	SOURCE/PROCESS DESCRIPTION.....	7
2.6.	SOURCE OPERATING CONDITIONS.....	7
<b>SECTION 3.</b>	<b>SAMPLING AND ANALYSIS PROCEDURES .....</b>	<b>8</b>
3.1.	PORT LOCATION .....	8
3.2.	POINT DESCRIPTION/LABELING – PORTS/STACK .....	8
3.3.	SAMPLE TRAIN DESCRIPTION.....	8
3.4.	SAMPLING PROCEDURE DESCRIPTION.....	8
3.5.	INSTRUMENTATION AND ANALYTICAL PROCEDURES.....	12
3.6.	COMMENTS: LIMITATIONS AND DATA QUALIFICATIONS.....	12
<b>SECTION 4.</b>	<b>APPENDICES .....</b>	<b>13</b>
A.	<i>Tabulated Results</i>	
B.	<i>Calculations</i>	
C.	<i>Laboratory Reports</i>	
D.	<i>Field Data Sheets</i>	
E.	<i>Strip Charts</i>	
F.	<i>Process Information</i>	
G.	<i>QC Calibration Certificates and Quality Assurance Records</i>	
H.	<i>Sample Train Configuration and Stack Diagrams</i>	
I.	<i>Related Correspondence (Source Test Plan and Email)</i>	
J.	<i>BAAQMD Permit Conditions</i>	
K.	<i>Flare Flow Meter Calibration Records</i>	



## SECTION 1. INTRODUCTION

### 1.1. Summary

Blue Sky Environmental, Inc. was contracted by SCS Engineers to perform emissions testing for at the Guadalupe Recycling and Disposal Facility (GRDF) in San Jose, California. The source test was conducted to demonstrate that landfill gas Flare A-17 is operating in compliance with Bay Area Air Quality Management District (BAAQMD) authority to construct application 21927 for Facility 3294. Results of the test program are presented in this report. The source test information is summarized in Table 1-1. Test results derived from the source test are summarized in Table 1-2. Results for individual test runs are provided in Appendix A. The flare met all compliance emission criteria.

**Table 1-1 Source Test Information**

<b>Test Location:</b>	Guadalupe Recycling and Disposal Facility (GRDF) 15999 Guadalupe Mines Road, San Jose, CA 95120
<b>Source Contact:</b>	Becky Acevedo, Waste Management (408) 779-2206
<b>Source Tested:</b>	Flare A-17 – 120 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
<b>Source Test Date:</b>	February 16 <sup>th</sup> , 2022
<b>Test Objective:</b>	Determine compliance with condition 25320 of Bay Area Air Quality Management District (BAAQMD) authority to construct application 21927 for Facility 3294; BAAQMD Regulation 8, Rule 34; and the State Landfill Methane Gas Rule under AB32 for Flare performance.
<b>Test Performed by:</b>	Blue Sky Environmental, Inc. 624 San Gabriel Avenue, Albany, CA 94706 Jeramie Richardson (810) 923-1198 jrichardson@blueskyenvironmental.com
<b>Test Parameters:</b>	<u>Landfill Gas</u> O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , Btu, THC, CH <sub>4</sub> , NMOC, HHV, F-factor, sulfur species, volumetric flow rate <u>Flare Emissions</u> THC, CH <sub>4</sub> , NMOC, NO <sub>x</sub> , CO, O <sub>2</sub> , SO <sub>2</sub> , moisture, volumetric flow rate



**Table 1-2 Compliance Summary**

**Flare A-17 Condensate ON**

<b>Emission Parameter</b>	<b>Average Results (Condensate ON)</b>	<b>Permit Limit</b>	<b>Compliance Status</b>
NO <sub>x</sub> , ppmvd @ 15% O <sub>2</sub>	12.7	15	In Compliance
CO, ppmvd @ 15% O <sub>2</sub>	3.7	81	In Compliance
SO <sub>2</sub> , ppmvd	70.8	300	In Compliance
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.2	30	In Compliance
NMOC Destruction Efficiency, %	>99.46%	>98%	In Compliance
CH <sub>4</sub> Destruction Efficiency, %	>99.97%	>99%	In Compliance

**Flare A-17 Condensate OFF**

<b>Emission Parameter</b>	<b>Average Results (Condensate OFF)</b>	<b>Permit Limit</b>	<b>Compliance Status</b>
NO <sub>x</sub> , ppmvd @ 15% O <sub>2</sub>	9.6	15	In Compliance
CO, ppmvd @ 15% O <sub>2</sub>	4.8	81	In Compliance
SO <sub>2</sub> , ppmvd	84.8	300	In Compliance
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.3	30	In Compliance
NMOC Destruction Efficiency, %	>99.46%	>98%	In Compliance
CH <sub>4</sub> Destruction Efficiency, %	>99.97%	>99%	In Compliance



## SECTION 2. SOURCE TEST PROGRAM

### 2.1. Overview

This source test was performed to demonstrate that landfill gas Flare A-17 (previously A-14) is operating in compliance with NO<sub>x</sub>, CO, and NMOC emission limits specified in condition 25320 of Bay Area Air Quality Management District (BAAQMD) authority to construct application 21927 for Facility 3294, and BAAQMD Regulation 8, Rule 34. This testing also satisfies compliance requirements outlined in the State Landfill Methane Gas Rule under AB32 for Flare performance.

### 2.2. Pollutants Tested

The following U.S. Environmental Protection Agency (EPA) and ASTM International sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA Method 3A	O <sub>2</sub> and CO <sub>2</sub> Emissions, Stack Gas Molecular Weight
EPA Method 7E	NO <sub>x</sub> Emissions and NO <sub>2</sub> Converter Check
EPA Method 10	CO Emissions
EPA Method 4	Moisture Calculation
EPA Method 18	CH <sub>4</sub> Emissions
EPA Method 19	Flow Rate Calculation DSCFM
EPA Method 25A	THC, NMOC Emissions
EPA Method 25C	TNMHC (NMOC) in Fuel
ASTM D-1945/3588	BTU, F-Factor and Fixed Gases in Fuel
ASTM D-5504	Sulfur Species, Hydrogen Sulfide (H <sub>2</sub> S) and TRS

### 2.3. Test Date

Testing was conducted on February 16<sup>th</sup>, 2022.

### 2.4. Sampling and Observing Personnel

Testing was conducted by Jeramie Richardson and Timothy Eandi, representing Blue Sky Environmental, Inc.

Rajan Phadnis, James Dutra, and Tino Robles of Waste Management (WM) were on-site to oversee flare operations and assist in coordinating testing and the collection of process data during testing. Jon Silva of SCS Engineers was also on-site to coordinate and assist with the test program.

BAAQMD was notified of the scheduled testing in a source test protocol submitted by SCS Engineering on behalf of Waste Management on January 21<sup>st</sup>, 2022. A Source Test Protocol acknowledgement (NST-7171) was received on January 24<sup>th</sup>, 2022; however, no agency observers were present during the test program. A copy of the source test protocol and email correspondence are provided in Appendix I.





## 2.5. Source/Process Description

Guadalupe Recycling and Disposal Facility is an operating multi-material landfill located in San Jose, California with a landfill gas collection system that is abated by an industrial landfill gas flare. Flare A-17 has a 120 MMBtu/hr multiple nozzle burner. The flare shell is 50 feet high and 12 feet in diameter. The inside diameter (ID) is approximately 130 inches.

The flare is maintained at a setpoint of 1,500 °F. It is typically operated at ~1,850 standard cubic feet per minute (SCFM) with the condensate on and 1,976 SCFM with the condensate off. Methane quality on average ranges from 44 to 49%, with an oxygen content to be in range of 1-2%. Collected landfill gas condensate is periodically injected into the flare through one vertical nozzle positioned near the burner.

## 2.6. Source Operating Conditions

The flare was operated under normal conditions with an average exhaust temperature of 1,499 °F during testing. The flare was operated on landfill gas with a condensate injection rate of 1.78 gallons per minute (gpm) for the first set of tests, and on landfill gas with the condensate injection turned off for the second set of tests.

The LFG flowrate ranged from 1,784 to 1,836 SCFM. The facility exhaust temperature and LFG flowrate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare had an average methane content of 44.2% and an oxygen content of 1.6%.



## SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

### 3.1. Port Location

Sampling was conducted at the 130-inch diameter ID stack of the flare through ports that were accessed with a 60-foot boom lift. Four 4-inch flange ports were located approximately 45 feet above grade, five stack diameters downstream from the burners and one stack diameter upstream from the exhaust.

### 3.2. Point Description/Labeling – Ports/Stack

Blue Sky Environmental, Inc. conducted two perpendicular 8-point traverses of the stack (90° apart) to check for the presence of cyclonic flow. The traverse points for the 130-inch diameter stack with 8-inch ports were 4.2, 13.7, 25.2, 42.0, 88.0, 104.8, 116.4 and 125.8 inches from the inside wall of the stack. Sampling was performed for two minutes per point for a total of 16 points over the 32-minute test run. Oxygen stratification was greater than 10%; therefore, subsequent CEM sampling was conducted using all traverse points.

### 3.3. Sample Train Description

Sampling system diagrams are provided in Appendix H. Additional descriptive information is included in the following section.

### 3.4. Sampling Procedure Description

Six consecutive 32-minute gaseous emissions tests were performed for oxides of nitrogen (NO<sub>x</sub>), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), methane (CH<sub>4</sub>) and total hydrocarbons (THC) at the flare exhaust stack. Three tests were performed with the condensate injection on, and three tests were performed with the condensate injection off.

The sampling system was checked for leaks before the start of the testing by plugging the sample probe and observing the sample rotameter flow drop to zero. Instrument linearity and system bias were checked. The system response time for each analyzer was recorded. The temperatures of the heated sample line between the probe and sample conditioner/condenser, and the condenser exhaust temperatures were maintained within limits during each test run.

Analyzer external calibrations were performed before and after each run using EPA protocol certified gas standards. Calibration gases were introduced to the sample manifold at the same flow rate as the sample. Any drift or bias was corrected using equation 100-3 from CARB Method 100. A NO<sub>x</sub> analyzer converter efficiency check was performed before the first test run and achieved an efficiency greater than 90%.

Concurrent with the exhaust sampling, Blue Sky Environmental collected a total of three integrated fuel samples (three samples with the condensate injection on and three samples with the condensate injection off) for off-site analysis by Atmospheric Analysis & Consulting, Inc. (AAC) in Ventura, California. The samples were collected in 6-liter SUMMA canisters and analyzed for sulfur species (including H<sub>2</sub>S and total reduced sulfur compounds) by ASTM D-5504, and HHV, F-factor, fixed gases, volatile organic compounds (VOCs), nonmethane organic compounds (NMOCs) and C<sub>1</sub>-C<sub>6+</sub> hydrocarbons by EPA Method 25C and ASTM D-1945.



The sampling and analysis procedures are summarized below:

**EPA Method 1 – Sample and Velocity Traverses for Stationary Sources**

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

**EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)**

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. A small portion of the sample is passed through a fuel cell type paramagnetic oxygen analyzer which measures the electrical current generated by the oxidation reaction at the gas/fuel cell interface. Carbon dioxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon dioxide absorbs infrared radiation.

**EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)**

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Nitric oxide is determined by passing the sample through a chemiluminescent analyzer. The chemiluminescent process is based on the light given off when nitric oxide and ozone react. Nitrogen dioxide (NO<sub>2</sub>) concentrations are determined by passing the sample through a catalyst which reduces the NO<sub>2</sub> to NO. The total oxides of nitrogen concentration (NO<sub>2</sub> + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO<sub>x</sub> analyzer NO<sub>2</sub> to NO conversion efficiency.

**EPA Method 10 – Determination of Carbon Monoxide Emissions from Stationary Sources**

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Carbon monoxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon monoxide absorbs infrared radiation.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 psi is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.



The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.

#### System Performance Criteria

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO <sub>x</sub> Converter Efficiency ( <i>EPA Method 7E</i> )	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

#### EPA Method 4 – Determination of Moisture Content in Stack Gas

This method is used to determine the moisture content of stack gas. The sample is extracted and condensed in Greenburg-Smith impingers immersed in an ice bath and in a final impinger silica gel trap. The moisture is condensed in a solution of de-ionized water, or solutions of another type of sampling train if the moisture is being determined as part of another sampling method, such as EPA Method 5, SCAQMD Method 201.7 or BAAQMD ST-32. The moisture gain in the impinger solutions and silica gel is determined volumetrically and gravimetrically respectively.

QA/QC procedures require that a minimum of 21 cubic feet of sample is pulled using a leak tight pump. The sample volume is measured with a calibrated dry gas meter. The impingers are immersed in an ice bath to maintain a gas outlet temperature of less than 68°F. Pre-test leak checks are performed for each run using a minimum 15 inches of mercury vacuum. Post-test leak checks are performed at the highest sample vacuum or greater. The leak test is acceptable if the leak rate is less than 0.02 cubic feet per minute or 4% of the average sampling rate, whichever is less. If the final leak check exceeds the criteria, either the volume is corrected based on the leak rate or the run is voided and repeated.

#### EPA Method 19 – Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emission Rates

This method is used to determine stack gas volumetric flow rates using oxygen-based F-factors. F-factors are ratios of combustion gas volumes to heat inputs. The heating value of the fuel in Btu per cubic foot is determined from analysis of fuel gas samples using ASTM D1946/1945 gas chromatography analytical procedures. The total cubic feet per hour of fuel multiplied times the Btu/cf provides million Btu per hour (MMBtu) heat input. The heat input in MMBtu/hr is multiplied by the F-factor (DSCF/MMBtu) and adjusted for the measured oxygen content of the source to determine volumetric flow rate. The flow rates are used to determine emission rates.

#### EPA Method 25A – Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer

This method is used to measure total hydrocarbons, methane, and non-methane hydrocarbons in stationary source emissions using a gas chromatograph with a flame ionization detector



(GC/FID). Heated Teflon sample gas transfer lines are used to provide a continuous sample to the heated GC/FID hydrocarbon analyzer. Heated lines are used to avoid moisture or hydrocarbon condensation.

The sampling and analytical system is checked for linearity with zero, low (25-35%), mid (45-55%), and high (80-90%) span calibrations. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test.

Methane in the exhaust is determined using EPA Method 18.

### **EPA Method 18 – Measurement of Gaseous Organic Compound Emissions by Gas Chromatography**

This method is used to determine emissions of methane using a gas chromatograph with a flame ionization detector. An integrated Tedlar bag is collected and either analyzed offsite by GC or onsite using a charcoal scrubber to remove the non-methane organics and determining the difference between the total hydrocarbon and non-methane hydrocarbon concentrations.

### **EPA Method 25C – Determination of Nonmethane Organic Compounds (NMOC) in Landfill Gas**

This method is used to sample and measure NMOC in landfill gases. Gases are collected in a pre-evacuated 6-Liter SUMMA canister with pre-set flow controller set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days. The sample gas is drawn by the canister vacuum through a micro-filter, pre-set orifice flow controller and on/off valve into the canister. The canister vacuum is monitored with a vacuum gauge to verify sample collection. The flow controller consists of capillary orifice tubing designed to sample for a pre-set duration of 0.5 hrs. The sample is injected into a GC column where the methane and CO<sub>2</sub> are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO<sub>2</sub> then reduced to methane and analyzed.

### **ASTM D-1945 – Analysis of Natural Gas by Gas Chromatography**

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

### **ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels**

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

### **ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence**

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed 7 days.



### 3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO Model 42C	NO <sub>x</sub> /NO/NO <sub>2</sub>	Chemiluminescence
CAI Model Fuji ZRH	CO <sub>2</sub>	Infrared (IR)
TECO Model 48C	CO	Gas Filter Correlation/IR
Servomex Model 1440	O <sub>2</sub>	Paramagnetic
TECO Model 55C	NMOC/CH <sub>4</sub>	Flame Ionization (FID)

The analyzer data recording system consists of a Honeywell DPR300 strip chart recorder, supported by a data acquisition system (DAS). The instrument response is recorded on strip charts and DAS. The averages are corrected for drift using BAAQMD and EPA Method 7E equations. All system performance criteria were met.

### 3.6. Comments: Limitations and Data Qualifications

This source test was performed in accordance with the protocol submitted to BAAQMD. No deviations from the protocol or anomalies were observed during testing. The measured emissions comply with the permit limits.

Blue Sky Environmental has reviewed this report for accuracy and concluded that the test procedures were followed and accurately described and documented. The review included the following items:

- Review of the general text
- Review of calculations
- Review of CEMS data
- Review of supporting documentation

The services described in this report were performed in a manner consistent with the generally accepted professional testing principles and practices. No other warranty, expressed or implied, is made. These services were performed in a manner consistent with our agreement with our client. The report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions contained in this report pertain to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and operating parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations, subsequent to this, and do not warranty the accuracy of information supplied by others.



## SECTION 4. APPENDICES

- A. Tabulated Results
- B. Calculations
- C. Laboratory Reports
- D. Field Data Sheets
- E. Strip Charts
- F. Process Information
- G. QC Calibration Certificates and Quality Assurance Records
- H. Sample Train Configuration and Stack Diagrams
- I. Related Correspondence (Source Test Plan and Email)
- J. BAAQMD Permit Conditions
- K. Flare Flow Meter Calibration Records



Blue Sky Environmental, Inc

# A Tabulated Results



TABLE #1

Guadalupe Recycling and Disposal Facility (GRDF)

Flare A-17

1,499°F - Condensate ON

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/16/22	2/16/22	2/16/22		
Test Time	0837-0921	0956-1039	1101-1145		
Standard Temperature, °F	70	70	70		
<b>Process Parameters:</b>					
Flare Temperature, °F	1,498	1,499	1,499	1,499	
Condensate Injection, gpm	1.8	1.8	1.8	1.8	
<b>Fuel:</b>					
Fuel Flow Rate, SCFM	1,784	1,792	1,785	1,787	
Fuel Heat Input, MMBtu/hr	46.2	46.7	47.0	46.6	
<b>Stack Gas:</b>					
Exhaust Flow Rate, DSCFM (EPA Method 19)	19,301	20,019	20,072	19,798	
Oxygen (O <sub>2</sub> ), % volume dry	12.74	12.98	12.94	12.89	
Carbon Dioxide (CO <sub>2</sub> ), % volume dry	7.47	7.25	7.28	7.33	
Water Vapor (H <sub>2</sub> O), % volume (EPA Method 4)	7.86	8.77	8.14	8.25	
<b>NO/NO<sub>2</sub>/NO<sub>x</sub> Emissions:</b>					
NO, ppmvd	17.6	17.6	16.6	17.2	
NO <sub>2</sub> , ppmvd	<1.0	<1.0	<1.0	<1.0	
NO <sub>2</sub> /NO Ratio	<0.06	<0.06	<0.06	<0.06	
NO <sub>x</sub> , ppmvd	17.7	17.4	16.6	17.2	
NO <sub>x</sub> , ppmvd @ 15% O <sub>2</sub>	12.8	13.0	12.3	12.7	15
NO <sub>x</sub> , lb/hr	2.43	2.48	2.37	2.43	
<b>CO Emissions:</b>					
CO, ppmvd	2.6	7.5	5.1	5.1	
CO, ppmvd @ 15% O <sub>2</sub>	1.9	5.6	3.7	3.7	81
CO, lb/hr	0.22	0.66	0.44	0.44	
<b>Total Reduced Sulfurs (ASTM 5504):</b>					
Total Reduced Sulfurs as H <sub>2</sub> S, ppmv in Fuel	724	778	852	785	
Sulfur Dioxide (SO <sub>2</sub> ) Emissions, ppmvd (calculated)	66.9	69.6	75.8	70.8	300
<b>THC Emissions (reported as CH<sub>4</sub>):</b>					
THC, ppmv wet (EPA Method ALT-097)	<11.0	<11.0	<11.0	<11.0	
THC, ppmvd	<11.9	<12.1	<12.0	<12.0	
THC, lb/hr	<0.572	<0.599	<0.597	<0.589	
<b>Methane (CH<sub>4</sub>) Emissions:</b>					
CH <sub>4</sub> , ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
CH <sub>4</sub> , ppmvd	<10.9	<11.0	<10.9	<10.9	
CH <sub>4</sub> , lb/hr	<0.479	<0.497	<0.498	<0.491	
<b>NMOC Emissions (reported as CH<sub>4</sub>):</b>					
NMOC, ppmv wet (EPA Method ALT-097)	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.2	<2.3	<2.2	<2.2	30*
NMOC, lb/hr	<0.048	<0.050	<0.050	<0.049	
<b>Inlet Hydrocarbons (reported as CH<sub>4</sub>):</b>					
Inlet NMOC, ppmvd (EPA Method 25C)	2,013	1,997	2,203	2,071	
Inlet NMOC, lb/hr	8.92	8.88	9.76	9.19	
<b>NMOC Destruction Efficiency, %</b>	>99.46%	>99.44%	>99.49%	>99.46%	>98%*
Inlet CH <sub>4</sub> , % (ASTM D-1945)	440,000	442,000	447,000	443,000	
Inlet CH <sub>4</sub> , lb/hr	1,949	1,966	1,980	1,965	
<b>CH<sub>4</sub> Destruction Efficiency, %</b>	>99.98%	>99.97%	>99.97%	>99.97%	>99%
Inlet THC (TOC), %	442,013	443,997	449,203	445,071	
Inlet THC (TOC), lb/hr	1,958	1,975	1,990	1,974	
<b>THC (TOC) Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.97%	>99.97%	>98%

WHERE,

ppmvd = parts per million concentration by volume expressed on a dry gas basis

lb/hr = pound per hour emission rate

Tstd. = standard temperature (°R = °F+460)

MW = molecular weight

DSCFM = dry standard cubic feet per minute

NO<sub>x</sub> = oxides of nitrogen, reported as NO<sub>2</sub> (MW = 46)

CO = carbon monoxide (MW = 28)

THC = TOC = total hydrocarbons including CH<sub>4</sub>, reported as CH<sub>4</sub> (MW = 16)

NMOC = non-methane organic compounds, reported as CH<sub>4</sub> (MW = 16)

CALCULATIONS,

ppm @ 15% O<sub>2</sub> = ppm · 5.9 / (20.9 - %O<sub>2</sub>)

ppm @ 3% O<sub>2</sub> = ppm · 17.9 / (20.9 - %O<sub>2</sub>)

lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R

NMOC, ppm as CH<sub>4</sub> = THC · CH<sub>4</sub>

Destruction Efficiency (DE) = (inlet, lb/hr- outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range

\* NMOC permit limits are 30 ppmvd @ 3% O<sub>2</sub> or DE >98%

TABLE #2

Guadalupe Recycling and Disposal Facility (GRDF)

Flare A-17

1,499°F - Condensate OFF

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/16/22	2/16/22	2/16/22		
Test Time	1216-1300	1318-1402	1419-1502		
Standard Temperature, °F	70	70	70		
<b>Process Parameters:</b>					
Flare Temperature, °F	1,498	1,498	1,501	1,499	
Condensate Injection, gpm	0.0	0.0	0.0	0.0	
<b>Fuel:</b>					
Fuel Flow Rate, SCFM	1,825	1,836	1,832	1,831	
Fuel Heat Input, MMBtu/hr	47.5	47.1	48.2	47.6	
<b>Stack Gas:</b>					
Exhaust Flow Rate, DSCFM (EPA Method 19)	20,218	20,849	20,223	20,430	
Oxygen (O <sub>2</sub> ), % volume dry	12.92	13.20	12.81	12.98	
Carbon Dioxide (CO <sub>2</sub> ), % volume dry	7.40	7.12	7.33	7.28	
Water Vapor (H <sub>2</sub> O), % volume (EPA Method 4)	9.49	7.96	9.01	8.82	
<b>NO/NO<sub>2</sub>/NO<sub>x</sub> Emissions:</b>					
NO, ppmvd	13.4	12.3	13.1	12.9	
NO <sub>2</sub> , ppmvd	<1.0	<1.0	<1.0	<1.0	
NO <sub>2</sub> /NO Ratio	<0.07	<0.08	<0.08	<0.08	
NO <sub>x</sub> , ppmvd	13.4	12.2	13.0	12.9	
NO <sub>x</sub> , ppmvd @ 15% O <sub>2</sub>	9.9	9.4	9.5	9.6	15
NO <sub>x</sub> , lb/hr	1.93	1.82	1.87	1.87	
<b>CO Emissions:</b>					
CO, ppmvd	4.1	3.8	11.5	6.5	
CO, ppmvd @ 15% O <sub>2</sub>	3.0	2.9	8.4	4.8	81
CO, lb/hr	0.36	0.35	1.01	0.57	
<b>Total Reduced Sulfurs (ASTM 5504):</b>					
Total Reduced Sulfurs as H <sub>2</sub> S, ppmv in Fuel	778	1,095	965	946	
Sulfur Dioxide (SO <sub>2</sub> ) Emissions, ppmvd (calculated)	70.2	96.4	87.4	84.8	300
<b>THC Emissions (reported as CH<sub>4</sub>):</b>					
THC, ppmv wet (EPA Method ALT-097)	<11.0	<11.0	<11.0	<11.0	
THC, ppmvd	<12.2	<12.0	<12.1	<12.1	
THC, lb/hr	<0.610	<0.619	<0.607	<0.612	
<b>Methane (CH<sub>4</sub>) Emissions:</b>					
CH <sub>4</sub> , ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
CH <sub>4</sub> , ppmvd	<11.0	<10.9	<11.0	<11.0	
CH <sub>4</sub> , lb/hr	<0.502	<0.518	<0.502	<0.507	
<b>NMOC Emissions (reported as CH<sub>4</sub>):</b>					
NMOC, ppmv wet (EPA Method ALT-097)	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.2	<2.3	<2.2	<2.3	30*
NMOC, lb/hr	<0.050	<0.052	<0.050	<0.051	
<b>Inlet Hydrocarbons (reported as CH<sub>4</sub>):</b>					
Inlet NMOC, ppmvd (EPA Method 25C)	2,035	2,077	2,134	2,082	
Inlet NMOC, lb/hr	9.22	9.46	9.71	9.46	
<b>NMOC Destruction Efficiency, %</b>	>99.46%	>99.45%	>99.48%	>99.46%	>98%*
Inlet CH <sub>4</sub> , % (ASTM D-1945)	442,000	436,000	446,000	441,333	
Inlet CH <sub>4</sub> , lb/hr	2,002	1,987	2,029	2,006	
<b>CH<sub>4</sub> Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.98%	>99.97%	>99%
Inlet THC (TOC), %	444,035	438,077	448,134	443,415	
Inlet THC (TOC), lb/hr	2,011	1,996	2,038	2,015	
<b>THC (TOC) Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.97%	>99.97%	>98%

**WHERE,**

ppmvd = parts per million concentration by volume expressed on a dry gas basis  
 lb/hr = pound per hour emission rate  
 Tstd. = standard temperature (°R = °F+460)  
 MW = molecular weight  
 DSCFM = dry standard cubic feet per minute  
 NO<sub>x</sub> = oxides of nitrogen, reported as NO<sub>2</sub> (MW = 46)  
 CO = carbon monoxide (MW = 28)  
 THC = TOC = total hydrocarbons including CH<sub>4</sub>, reported as CH<sub>4</sub> (MW = 16)  
 NMOC = non-methane organic compounds, reported as CH<sub>4</sub> (MW = 16)

**CALCULATIONS,**

ppm @ 15% O<sub>2</sub> = ppm · 5.9 / (20.9 - %O<sub>2</sub>)  
 ppm @ 3% O<sub>2</sub> = ppm · 17.9 / (20.9 - %O<sub>2</sub>)  
 lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R  
 NMOC, ppm as CH<sub>4</sub> = THC · CH<sub>4</sub>  
 Destruction Efficiency (DE) = (inlet, lb/hr - outlet, lb/hr) / inlet, lb/hr  
 < Value = 2% of Analyzer Range

\* NMOC permit limits are 30 ppmvd @ 3% O<sub>2</sub> or DE >98%