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October 18, 2024

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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 April 1, 2024, through September 30, 2024, 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.

A handwritten signature in cursive script that reads "Mike Tejero".

Michael Tejero
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**

April 1, 2024, through September 30, 2024

Submitted on:
October 23, 2024

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
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And

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

Prepared by



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1 INTRODUCTION

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 April 1, 2024, through September 30, 2024. During the timeframe included in this report from April 1, 2024, through September 30, 2024, the site also performed 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. Annual 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 March 22, 2024, 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 1, 2024, in compliance with BAAQMD Rule 8-34-412 and Title V Permit Condition Number 6188, Part 14. The 2024 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 March 22, 2024. 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 April 1, 2024, through September 30, 2024. 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 2024 partial calendar year from January 1, 2024, through September 30, 2024, was 96.7 hours, out of an allowable 240 hours per year. The total downtime for the reporting period of April 1, 2024, through September 30, 2024, was 79.7 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 twenty-five (25) 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 2024 partial calendar year from January 1, 2024, through September 30, 2024, was 96.7 hours, out of an allowable 240 hours per year. The total downtime for the reporting period of April 1, 2024, through September 30, 2024, was 79.7 hours. The GCCS Downtime Log for the reporting period is included in Appendix B.

During the reporting period, GRDF submitted the request for Breakdown Relief from BAAQMD for the April 9, 2024, PG&E unplanned power outage via BAAQMD's Reportable Compliance Activity (RCA) notification forms submitted on April 9, 2024 and was assigned RCA number 200272. GRDF submitted the Title V 10-day and 30-day letter on April 16, 2024; 30-day follow-up report for breakdown relief on April 16, 2024. During the reporting period, GRDF also submitted the request for Breakdown Relief from BAAQMD for the June 30, 2024, PG&E unplanned power outage via BAAQMD's RCA notification forms submitted on June 30, 2024, and was assigned RCA number 200443. GRDF submitted the Title V 10-day and 30-day letter on July 2, 2024; 30-day follow-up report for breakdown relief on July 2, 2024. Additionally, during the reporting period, GRDF submitted the request for Breakdown Relief from BAAQMD for the August 7, 2024, PG&E unplanned power outage via BAAQMD's RCA notification forms submitted on August 7, 2024, and was assigned RCA number 200528. GRDF submitted the Title V 10-day and 30-day letter on August 12, 2024; 30-day follow-up report for breakdown relief on August 12, 2024. During the reporting period, GRDF also submitted the request for Breakdown Relief from BAAQMD for the August 8, 2024, PG&E unplanned power outage via BAAQMD's RCA notification forms submitted on August 8, 2024, and was assigned RCA number 200531. GRDF submitted the Title V 10-day and 30-day letter on August 12, 2024; 30-day follow-up report for breakdown relief on August 12, 2024. Copies of the above mentioned 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 1,468 Degree F for flare A-17. Appendix F contains the Flare Temperature Deviation/ Inoperative Monitor/Missing Data Report for April 1, 2024, through September 30, 2024.

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

The cover integrity monitoring was recorded on the following dates:

- April 3, 11, 12, and 26, 2024
- May 21 and 29, 2024
- June 28, 2024
- July 30, 2024
- August 23 and 27, 2024
- September 13, 23, and 30, 2024

During the reporting period locations with surface cracks, ponding, and erosion were identified. The corrective actions were implemented as soon as it was safe to conduct repairs to the affected areas. 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:

- Second Quarter 2024 – April 22, 2024
- Third Quarter 2024 – July 22, 2024

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 Second Quarter 2024 SEM was conducted by Roberts Environmental Services (RES) on April 22, 2024, identifying three exceedance locations. GRDF personnel performed the ten-day re-monitoring on April 23, 2024. No exceedances were observed during the 10-day re-monitoring event. GRDF personnel performed the thirty-day follow-up monitoring event on May 16, 2024. No exceedances were observed during the 30-day re-monitoring event.

The Initial monitoring event for the Third Quarter 2024 SEM was conducted by Roberts Environmental Services (RES) and GRDF on July 22, 2024, identifying five exceedance locations. GRDF personnel performed the ten-day re-monitoring on July 30, 2024. No exceedances were observed during the 10-day re-monitoring event. GRDF personnel performed the thirty-day follow-up monitoring event on August 21, 2024. No exceedances were observed during the 30-day re-monitoring event. Detailed monitoring results are available in the Second Quarter 2024 and Third Quarter 2024 SEM Reports, 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:

- Second Quarter 2024 – April 22, 2024
- Third Quarter 2024 – July 22, 2024

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 April 1, 2024, through September 30, 2024. 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

Description	Total Waste Landfilled (Decomposable)
Total Waste Acceptance April 1, 2024, through September 30, 2024	67,782
Current Waste In Place as of September 30, 2024	Approximately 10.54 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 performed compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. The well readings for April 1, 2024, through September 30, 2024, 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:

- April 1, 2, 5, 8, 9, 15, 16, 18, and 29, 2024
- May 1, 2, 3, 13, and 16, 2024
- June 5, 6, 7, 10, 11, 12, 13, 14, 20 and 24, 2024
- July 1, 2, 9, 10, 11, 12 and 24, 2024
- August 1, 2, 5, 6, 7, 14, 15 and 19, 2024
- September 4, 5, 11, 18, 19, 20, and 30, 2024

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

During the reporting period well deviations with readings that exceeded limits per BAAQMD Regulation 8-34-305 were identified and all exceedances were corrected within 120-days. There were three (3) exceedances associated with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards during the reporting period. See Appendix K, Wellfield Deviation Log, for more detail.

2.10.2 Higher Operating Value (HOV) Wells

As of September 30, 2024, 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, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO) and may operate at up to 15.0 percent oxygen. HOV letter was submitted to BAAQMD on July 12, 2024, requesting to add an additional well to the list of existing HOV wells.

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 April 1, 2024, through September 30, 2024.

Table 2-3 below is a summary of the total LFG flow for the reporting period of April 1, 2024, through September 30, 2024.

Table 2-3 Total LFG Flow for April 1, 2024, through September 30, 2024

Emission Control Device	Average Flow (scfm)	Average CH ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Heat Input (MMBTU)
A-9 Flare	0.0	49.9	0.0	0.0	0.0
A-17 Flare	1,848	43.2	477,544,239	206,299,111	208,981

scfm = standard cubic feet per minute

CH₄ = methane

scf = standard cubic feet

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

**Methane content determined from February 1, 2024, Source Tests 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 during the reporting period. No new wells were started during the reporting period.

As of September 30, 2024, the GRDF has a total 88 collectors, (86 vertical wells and 2 horizontal Leachate collectors).

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_v 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

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_v. Pursuant to Title V Permit Condition Number 6188 Part 9, the A-9 Flare meets the nitrogen oxide (NO_x) emission concentration of less than 16 ppm_v. Also, the A-9 Flare meets the carbon monoxide (CO) emission concentration of less than 134 ppm_v 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 Annual Compliance Demonstration Test was performed on the A-17 Flare by Blue Sky Environmental, Inc. on February 1, 2024, 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. 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 March 22, 2024. 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_v. The A-17 Flare meets the nitrogen oxide (NO_x) emission concentration of less than 15 ppm_v. Also, the A-17 Flare meets the carbon monoxide (CO) emission concentration of less than 81 ppm_v.

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 ₂)	<1.6	<0.5	30	In Compliance
NO _x (ppm @ 15% O ₂)	8.4	9.5	16	In Compliance
CO (ppm @ 15% O ₂)	<3.4	<3.3	134	In Compliance

**Table 3-3 Flare Initial Compliance Demonstration Test Results- Test Data
February 1, 2024**

Condition	Flare (A-17) (Condensate Off) Average Results	Flare (A-17) (Condensate On) Average Results	8-34-301.3 limit	Compliance Status
NMOC (either 98% DRE or 30 ppm @ 3% O ₂)	12	<3.8	30	In Compliance
NO _x (ppm @ 15% O ₂)	9.5	10.4	15	In Compliance
CO (ppm @ 15% O ₂)	<1.4	2.2	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:

- Second Quarter 2024– April 19, 2024

- Third Quarter 2024- July 19, 2024

There were no exceedances detected during Second Quarter 2024 and Third Quarter 2024 monitoring events. 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 (April 1, 2024, through September 30, 2024). The following information is included as required:

- During the reporting period, twenty-five (25) 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, thirty-four (34) 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, no monitoring/recorder equipment SSM events occurred. Details are included in Appendix F, Temperature Deviation/Inoperative Monitor/Missing Data Report.
- There were fifty-nine (59) 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.



Signature of Responsible Official

10.18.2024

Date

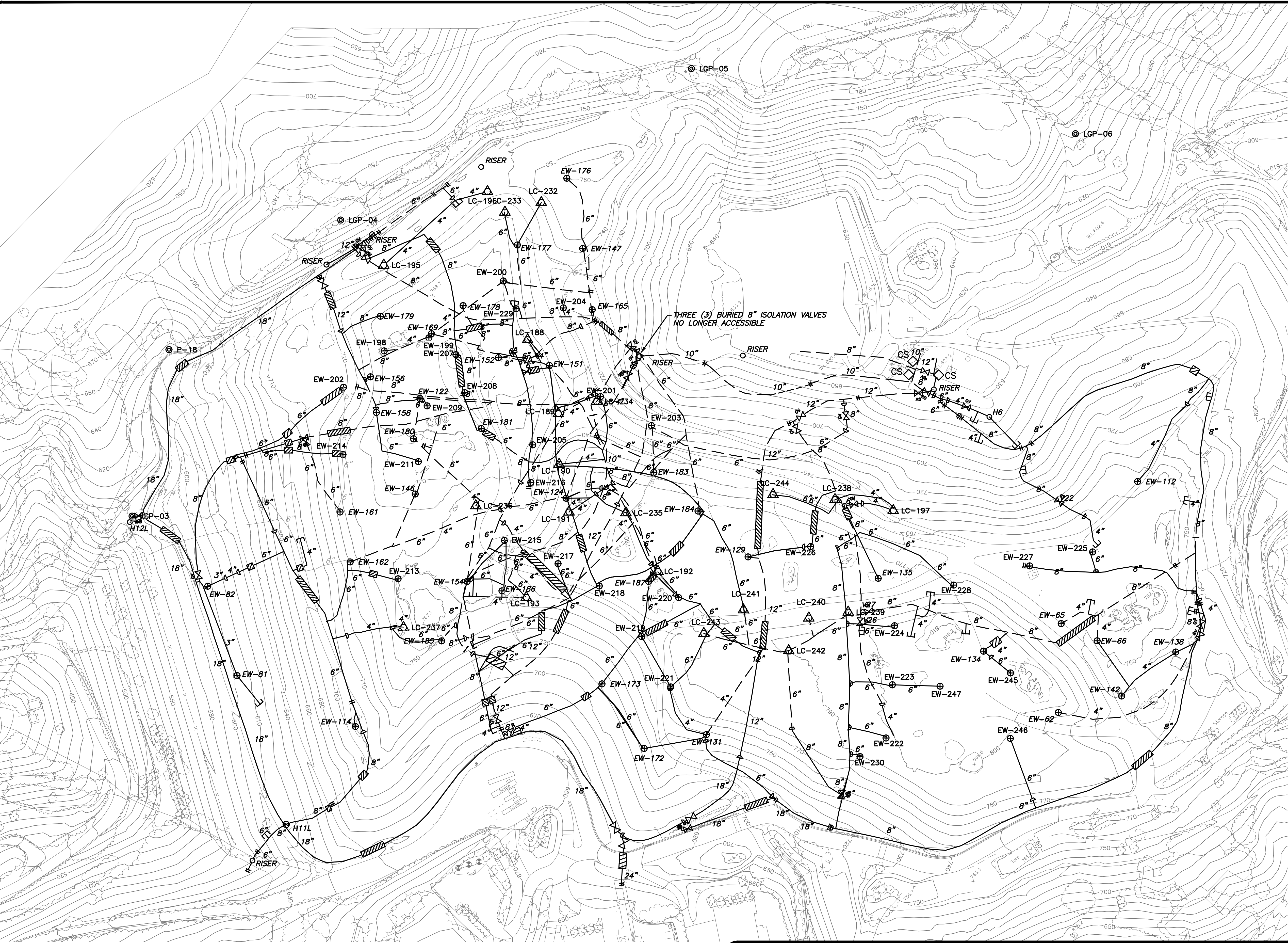
Michael Tejero

Name of Responsible Official

APPENDIX A

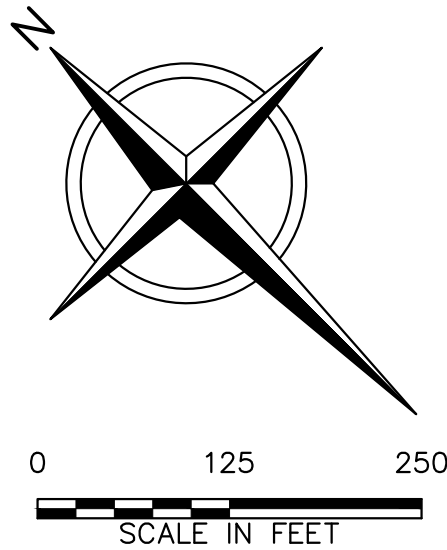
SITE MAP

File: \\hudson\eng\618\PROJECTS\GUADALUPE\230054 - 2023 AS-BUILT UPDATE\Project Drawings\230054-GUADALUPE_2023 AS-BUILT UPDATE\11.28.23.dwg Layout: S1 User: DYABALZAWI Nov 28, 2023 - 11:38am



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 CONTROL VALVE
- EXISTING BLIND FLANGE
- EXISTING FLANGE CONNECTION
- EXISTING REDUCER FITTING
- EXISTING ROAD CROSSING
- EXISTING CONDENSATE SUMP
- EXISTING RISER
- EXISTING CAP ON EXISTING PIPE



- NOTES:
- TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURien, WA. DATE OF PHOTOGRAPHY: JANUARY 26, 2023. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
 - 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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 - 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021 AND AUGUST 21, 2021.
 - 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
 - SUPPLEMENTAL 2023 AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON NOVEMBER 16, 2023.

DRAFT RECORD DRAWINGS



REV	DATE	DESCRIPTION	DMN BY	DES BY	CHK BY	APP BY
1	11/28/23	DAA	CME	AMN	PJS	



GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 GCCS IMPROVEMENTS

AS-BUILT SITE PLAN

SHEET NO.

1

PROJECT NO.

230054

APPENDIX B

GCCS DOWNTIME REPORT

LFG Collection System: April 1, 2024 through September 30, 2024
2024 (Partial) GCCS DOWNTIME LOG
GUADALUPE RECYCLING & DISPOSAL FACILITY, San Jose, CA

SHUTDOWN DATE/ TIME	START-UP DATE/ TIME	TOTAL DOWNTIME (HOURS)	COMMENTS OR REASONS
04/09/24 14:56	04/09/24 16:10	1.2	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200272 was assigned. Flare was inspected and restarted.
06/30/24 18:24	07/01/24 06:14	11.8	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200443 was assigned. Flare was inspected and restarted.
07/01/24 09:46	07/01/24 10:18	0.5	Flare A-17 shutdown during maintenance on compressor. Repaired Air Dryer unit. Flare was inspected and restarted.
07/06/24 02:20	07/06/24 13:48	11.5	Flare A-17 shutdown caused by air compressor shutdown event. Flare was inspected and restarted.
07/06/24 14:18	07/07/24 09:26	19.1	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 09:34	07/07/24 09:46	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 09:52	07/07/24 10:12	0.3	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 10:16	07/07/24 10:28	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 10:32	07/07/24 10:46	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 10:50	07/07/24 11:02	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 11:06	07/07/24 11:18	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 11:22	07/07/24 11:36	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 11:40	07/07/24 17:28	5.8	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 17:32	07/07/24 17:44	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 17:48	07/07/24 18:00	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 18:04	07/07/24 18:18	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 18:22	07/07/24 18:34	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 18:38	07/07/24 20:00	1.4	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 20:04	07/07/24 20:14	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/07/24 20:22	07/07/24 20:28	0.1	Flare A-17 was shutdown during troubleshooting of air compressor alarm. Flare was inspected and restarted.
07/15/24 12:38	07/15/24 14:28	1.8	Flare A-17 shutdown caused by compressor high pressure alarm. Performed KOP maintenance. Cleaned flowmeter. Flare was inspected and restarted.
07/15/24 14:32	07/15/24 14:52	0.3	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.
07/17/24 09:36	07/17/24 09:50	0.2	Flare A-17 was shutdown during replacement of compressor inlet valve. Flare was inspected and restarted.
07/24/24 09:22	07/24/24 10:46	1.4	Flare A-17 was shutdown to replace thermocouple. Flare was inspected and restarted.
08/07/24 20:36	08/08/24 11:24	14.8	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200528 was assigned. Flare was inspected and restarted.
08/08/24 17:10	08/08/24 20:00	2.8	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200531 was assigned. Flare was inspected and restarted.
08/28/24 10:28	08/28/24 11:02	0.6	Flare A-17 shutdown during maintenance and inspection. Flare was inspected and restarted.
08/28/24 11:48	08/28/24 11:58	0.2	Flare A-17 shutdown during installation of Ranger device. Flare was inspected and restarted.
08/28/24 12:26	08/28/24 12:36	0.2	Flare A-17 shutdown during installation of Ranger device. Flare was inspected and restarted.
08/28/24 13:08	08/28/24 13:16	0.1	Flare A-17 shutdown due to compressor low temperature alarm. Flare was inspected and restarted.
09/06/24 07:08	09/06/24 08:24	1.3	Flare A-17 shutdown due to compressor low pressure alarm. Flare was inspected and restarted.
09/09/24 08:44	09/09/24 08:48	0.1	Flare A-17 shutdown due to compressor low pressure alarm. Flare was inspected and restarted.
09/09/24 08:52	09/09/24 09:48	0.9	Flare A-17 shutdown during startup sequence. Flare was inspected and restarted.
09/27/24 11:10	09/27/24 12:02	0.9	Flare A-17 shutdown due to compressor low pressure fault. Cracked air line was repaired. Flare was inspected and restarted.
OTAL DOWNTIME April 1, 2024 through September 30, 2024 (HOURS)-		79.7	
TOTAL DOWNTIME January 1 through September 30, 2024 (HOURS)-		96.7	
TOTAL PERMITTED DOWNTIME FOR 1 YEAR (HOURS):		240	

APPENDIX C
BAAQMD Correspondence



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

July 12, 2024

Ryan Atterbury
Senior Air Quality Engineer
Bay Area Air Quality Management District
Permit Services Division
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 Well GUAD0211 to Higher
Operating Value List

Dear Mr. Atterbury:

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) Well GUAD0211 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 June 2024, the GRDF investigated the LFG temperatures at Well GUAD0211. 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 Well GUAD0211 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 well 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 GUAD0211 indicated CO readings of 0 ppmv. Subsequent monitoring at Well GUAD0211 indicated that CO concentrations remained at 0 ppmv. The wellhead temperature for each CO monitoring event was less than 140°F. Methane concentrations at Well GUAD0211 do not appear to be affected by

operation at the higher temperatures. See attached table for historical monitoring data and CO monitoring results. Prior to June 2024, Well GUAD0211 did not have well exceedances within the last 120 days.

GRDF considers Well GUAD0211 added to the HOV list for a temperature of 145°F as of July 12, 2024. Should the temperature measured at Well GUAD0211 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.

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 Well GUAD0211
Figure 1. – Gas Collection and Control System Map

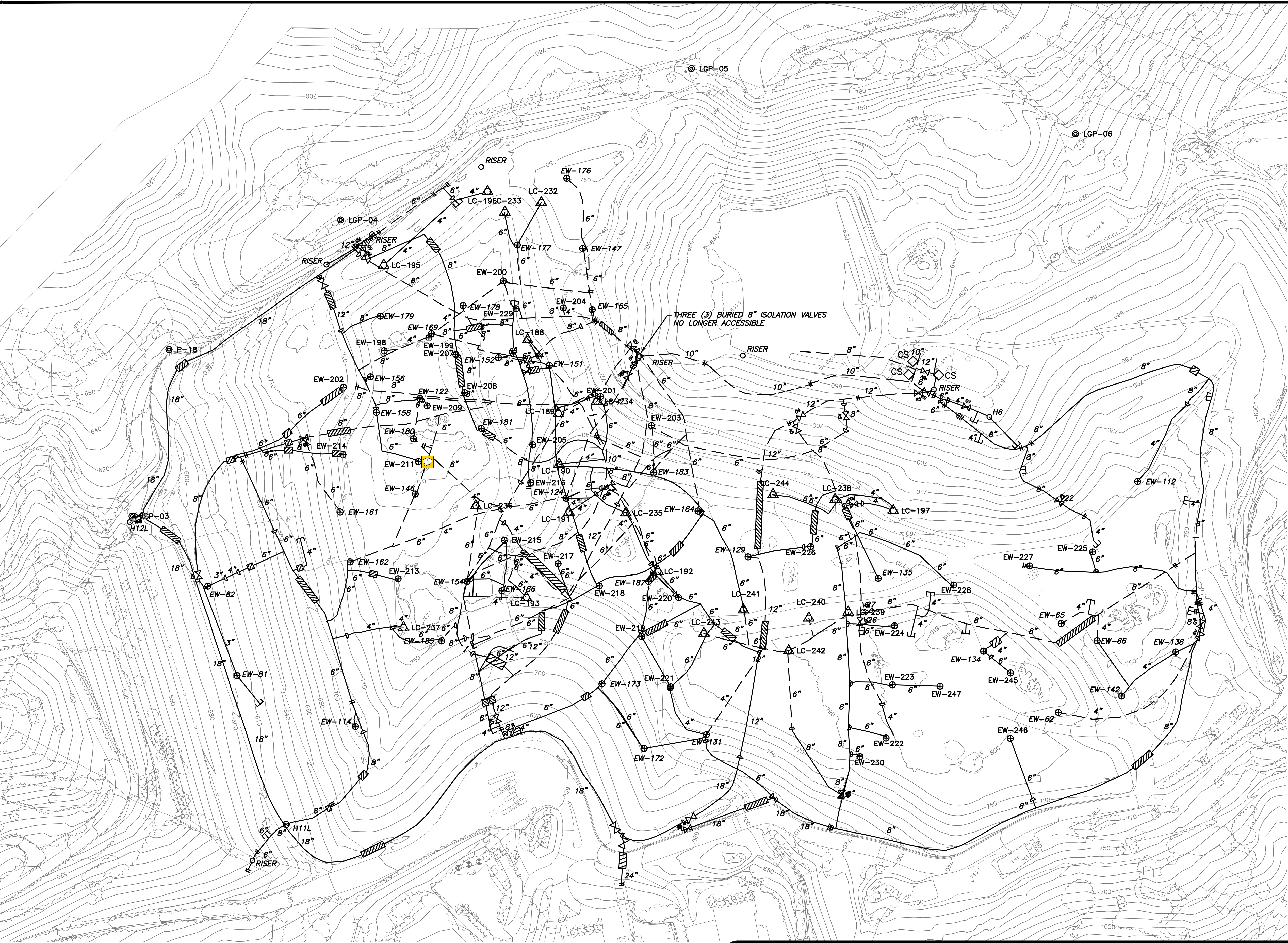
Attachment A
Wellfield Monitoring and CO Data for Well GUAD0211

Table 1 . Wellfield Data

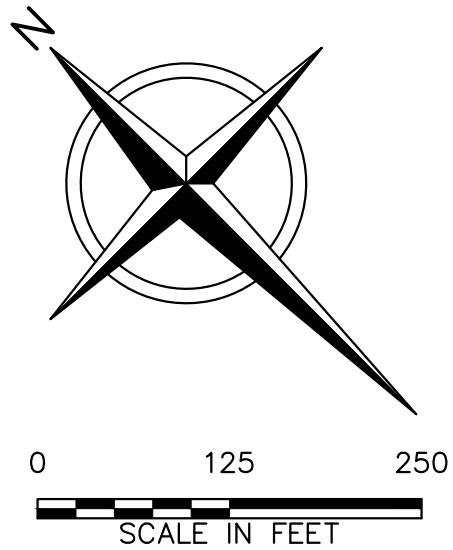
Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide) (%)	O2 (Oxygen)(%)	Balance Gas(%)	Initial Temperature (oF)	Adjusted Temperature (oF)	Initial Static Pressure ("H2O)	Adjusted Static Pressure ("H2O)
GUAD0211	2/20/2024 9:37	43.1	41.1	0.0	15.8	124.0	121.4	-5.6	-2.2
GUAD0211	3/5/2024 9:58	47.8	42.6	0.0	9.6	129.5	129.5	-1.3	-4.5
GUAD0211	3/18/2024 11:51	51.7	44.3	0.0	4.0	121.4	127.3	-0.1	-1.2
GUAD0211	4/8/2024 12:22	43.1	40.4	0.0	16.5	130.7	130.7	-5.7	-3.9
GUAD0211	5/3/2024 12:48	45.9	42.8	0.0	11.3	130.6	130.8	-4.3	-4.3
GUAD0211	6/7/2024 8:10	46.7	17.0	0.1	36.2	131.2	131.1	-3.2	-2.4
GUAD0211	6/7/2024 8:10	CO was 0 ppm							
GUAD0211	6/10/2024 11:59	47.3	40.4	0.5	11.8	126.2	126.2	-1.6	-1.6
GUAD0211	6/10/2024 11:59	CO was 0 ppm							
GUAD0211	7/2/2024 10:41	47.2	42.7	0.1	10.0	129.2	128.9	-0.8	-0.8
GUAD0211	7/9/2024 12:00	51.4	41.7	0.1	6.8	128.8	128.9	-1.7	-2.3
GUAD0211	7/9/2024 1:40	CO was 0 ppm							

Figure 1
Gas Collection and Control System Map

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- 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
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 - EXISTING REDUCER FITTING
 - EXISTING ROAD CROSSING
 - EXISTING CONDENSATE SUMP
 - EXISTING RISER
 - EXISTING CAP ON EXISTING PIPE



- NOTES:**
- TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY MILLER CREEK AERIAL MAPPING OF BURIEN, WA. DATE OF PHOTOGRAPHY: JANUARY 26, 2023. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
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DRAFT RECORD DRAWINGS



REV	DATE	DESCRIPTION	DMN BY	DES BY	CHK BY	APP BY
1	11/28/23	DAA	CME	AMN	PJS	



GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 GCCS IMPROVEMENTS

AS-BUILT SITE PLAN

SHEET NO.

1

PROJECT NO.

230054



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

April 16, 2024 (via email: 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 200272

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 April 9, 2024, at around 5:45 PM because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage at ~2:56 PM. The flare was back online the same day, April 9, 2024, at ~4:10 PM. 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 April 9, 2024, PG&E power outage via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on April 9, 2024, ~ 5:45 PM and was assigned RCA number 200272 (see Attachment A for copy of RCA and submittal).

The unplanned power outage shutdown event noted in RCA form submitted on April 9, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'Michael Tejero', with a stylized flourish at the end.

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200272)

Attachment A

Copy of GRDF RCA Form (RCA Number 200272)

Attachment A

Copy of GRDF RCA Form (RCA Number 200272)



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

April 9, 2024 (via email 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 April 9, 2024, ~ 3:20 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on April 9, 2024, at ~5:45 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 April 9, 2024, at ~ 4:40 PM 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 April 9, 2024



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	4/9/2024~ 3:20 PM	Clear Time	4/9/2024~ 4:40 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 4/9/2024 at ~5:45 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 4/9/2024.

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
- ✓ **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: [Azevedo, Becky](#); [Erin Phillips](#); [Colline, Christian](#); [Tejero, Michael](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 4.9.2024
Date: Tuesday, April 9, 2024 5:56:07 PM

ID# 200272

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Tuesday, April 9, 2024 5:47 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Azevedo, Becky <Razevedo@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Colline, Christian <CColline@wm.com>; Tejero, Michael <mtejero@wm.com>; Phadnis, Rajan <rphadnis@wm.com>
Subject: GRDF A3294-RCA for PG&E power outage 4.9.2024

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 an unplanned PG&E power outage on 4.9.2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility



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

April 16, 2024 (via email: 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 200272
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 April 9, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~5:45 PM on April 9, 2024, because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage ~2:56 PM. The flare was back online the same day, April 9, 2024, at ~4:10 PM. 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 April 9, 2024, PG&E power outage and was assigned RCA number 200272 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown event noted in RCA form submitted on April 9, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'Michael Tejero', with a stylized flourish at the end.

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200272)

Attachment A

Copy of GRDF RCA Form (RCA Number 200272)

Attachment A

Copy of GRDF RCA Form (RCA Number 200272)



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

April 9, 2024 (via email 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 April 9, 2024, ~ 3:20 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on April 9, 2024, at ~5:45 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 April 9, 2024, at ~ 4:40 PM 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 April 9, 2024



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	4/9/2024~ 3:20 PM	Clear Time	4/9/2024~ 4:40 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 _x	<input type="checkbox"/> SO ₂	<input type="checkbox"/> CO	<input type="checkbox"/> CO ₂
<input type="checkbox"/> O ₂	<input type="checkbox"/> H ₂ O	<input type="checkbox"/> Opacity	<input type="checkbox"/> Lead
<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 ₂ O
<input type="checkbox"/> psig	<input type="checkbox"/> pH	<input type="checkbox"/> °Fahrenheit	<input type="checkbox"/> mmHg
		<input type="checkbox"/> Other (describe)	

Event Description:

This breakdown report is being submitted on 4/9/2024 at ~5:45 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 4/9/2024.

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
- ✓ **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: [Azevedo, Becky](#); [Erin Phillips](#); [Colline, Christian](#); [Tejero, Michael](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 4.9.2024
Date: Tuesday, April 9, 2024 5:56:07 PM

ID# 200272

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Tuesday, April 9, 2024 5:47 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Azevedo, Becky <Razevedo@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Colline, Christian <CColline@wm.com>; Tejero, Michael <mtejero@wm.com>; Phadnis, Rajan <rphadnis@wm.com>
Subject: GRDF A3294-RCA for PG&E power outage 4.9.2024

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 an unplanned PG&E power outage on 4.9.2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility



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

July 2, 2024 (via email: 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 200443

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 June 30, 2024, at around 9:30 PM because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage at ~6:24 PM. The flare was back online on July 1, 2024, at ~6:14 AM. 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 June 30, 2024, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on June 30, 2024, ~ 9:30 PM and was assigned RCA number 200443 (see Attachment A for copy of RCA and submittal).

The unplanned power outage shutdown event noted in RCA form submitted on June 30, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility



Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200443)

Attachment A

Copy of GRDF RCA Form (RCA Number 200443)



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

June 30, 2024 (via email 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 June 30, 2024, ~ 6:45 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on June 30, 2024, at ~9:30 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.

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 June 30, 2024



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	6/30/2024~6:45 PM	Clear Time	
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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 6/30/2024 at ~9:30 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 6/30/2024.

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
- ✓ **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: [Phadnis, Rajan](#)
To: [RCA Notification](#)
Cc: ephillips@baaqmd.gov; [Azevedo, Becky](#); [Tejero, Michael](#); [Colline, Christian](#); [Phadnis, Rajan](#); [Toy, Jordan](#)
Subject: RE: GRDF A3294-RCA for PG&E power outage 6.30.2024
Date: Monday, July 1, 2024 9:32:00 AM
Attachments: [GRDF- RCA-200443 form updated 7.1.2024.pdf](#)

Thank you.

Attached is the updated RCA form with event clear time.

Thanks,
Rajan

From: RCA Notification <rca@baaqmd.gov>
Sent: Monday, July 1, 2024 8:31 AM
To: Phadnis, Rajan <rphadnis@wm.com>
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 6.30.2024

RCA200443

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Sunday, June 30, 2024 9:27 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Colline, Christian <CColline@wm.com>
Subject: GRDF A3294-RCA for PG&E power outage 6.30.2024

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 6/30/2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility



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	6/30/2024~6:45 PM	Clear Time	7/1/2024 ~6:30 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 6/30/2024 at ~9:30 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 6/30/2024.

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.
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- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to 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
PO Box 20957
San Jose, California 95160
T: 408.268.1670

July 2, 2024 (via email: 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 200443
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 June 30, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~9:30 PM on June 30, 2024, because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage ~6:24 PM. The flare was back online on July 1, 2024, at ~6:14 AM. 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 June 30, 2024, PG&E power outage and was assigned RCA number 200443 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown event noted in RCA form submitted on June 30, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in black ink, appearing to read 'Michael Tejero', with a stylized flourish at the end.

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200443)

Attachment A

Copy of GRDF RCA Form (RCA Number 200443)



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

June 30, 2024 (via email 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 June 30, 2024, ~ 6:45 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on June 30, 2024, at ~9:30 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.

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 June 30, 2024



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	6/30/2024~6:45 PM	Clear Time	
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			
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<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 6/30/2024 at ~9:30 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 6/30/2024.

District Use Only

Received by

Date

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- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to 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.

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- 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: [Phadnis, Rajan](#)
To: [RCA Notification](#)
Cc: ephillips@baaqmd.gov; [Azevedo, Becky](#); [Tejero, Michael](#); [Colline, Christian](#); [Phadnis, Rajan](#); [Toy, Jordan](#)
Subject: RE: GRDF A3294-RCA for PG&E power outage 6.30.2024
Date: Monday, July 1, 2024 9:32:00 AM
Attachments: [GRDF- RCA-200443 form updated 7.1.2024.pdf](#)

Thank you.

Attached is the updated RCA form with event clear time.

Thanks,
Rajan

From: RCA Notification <rca@baaqmd.gov>
Sent: Monday, July 1, 2024 8:31 AM
To: Phadnis, Rajan <rphadnis@wm.com>
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 6.30.2024

RCA200443

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Sunday, June 30, 2024 9:27 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Colline, Christian <CColline@wm.com>
Subject: GRDF A3294-RCA for PG&E power outage 6.30.2024

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 6/30/2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility



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	6/30/2024~6:45 PM	Clear Time	7/1/2024 ~6:30 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂	<input type="checkbox"/> ▶ H ₂ S	<input type="checkbox"/> ▶ TRS	<input type="checkbox"/> ▶ NH ₃
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ 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 ₂ 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 6/30/2024 at ~9:30 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 6/30/2024.

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
- ✓ **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
PO Box 20957
San Jose, California 95160
T: 408.268.1670

August 12, 2024 (via email: 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 200528

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 August 8, 2024, at around 9:20 AM because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage on August 7 at ~9:00 PM. The flare was back online on August 8, 2024, at ~11:30 AM. 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 August 7, 2024, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on August 8, 2024, ~ 9:20 AM and was assigned RCA number 200528 (see Attachment A for copy of RCA and submittal).

The unplanned power outage shutdown event noted in RCA form submitted on August 8, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Mike Tejero".

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200528)

Attachment A

Copy of GRDF RCA Form (RCA Number 200528)

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Colline, Christian](#); [Azevedo, Becky](#); [Tejero, Michael](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.7.2024
Date: Thursday, August 8, 2024 12:01:57 PM

Confirming receipt, thank you for the update

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Thursday, August 8, 2024 11:45 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: RE: GRDF A3294-RCA for PG&E power outage 8.7.2024

Thank you.
Attached is the RCA form with update on event clear time.

Thanks,
Rajan

From: RCA Notification <rca@baaqmd.gov>
Sent: Thursday, August 8, 2024 10:59 AM
To: Phadnis, Rajan <rphadnis@wm.com>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.7.2024

Good Morning,

I am confirming receipt and the RCA# for this notification is: RCA200528

Thank You,
Joe Dobosz

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Thursday, August 8, 2024 9:19 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 8.7.2024

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 8/7/2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility

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



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	8/7/2024~9:00 PM	Clear Time	8/8/2024~11:30 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 8/7/2024 at ~9:00 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 8/8/2024.

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
- ✓ **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

August 8, 2024 (via email 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 August 7, 2024, ~ 9:00 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on August 8, 2024, at ~9:15 AM 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 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 August 8, 2024



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	8/7/2024~9:00 PM	Clear Time	
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 _x	<input type="checkbox"/> SO ₂	<input type="checkbox"/> CO	<input type="checkbox"/> CO ₂
<input type="checkbox"/> O ₂	<input type="checkbox"/> H ₂ O	<input type="checkbox"/> Opacity	<input type="checkbox"/> Lead
<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 ₂ O
<input type="checkbox"/> psig	<input type="checkbox"/> pH	<input type="checkbox"/> °Fahrenheit	<input type="checkbox"/> mmHg
		<input type="checkbox"/> Other (describe)	

Event Description:

This breakdown report is being submitted on 8/7/2024 at ~9:00 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 8/8/2024.

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
- ✓ **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
PO Box 20957
San Jose, California 95160
T: 408.268.1670

August 12, 2024 ([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 200528
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 August 7, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~9:20 AM on August 8, 2024, because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage August 7, 2024, ~9:00 PM. The flare was back online on August 8, 2024, at ~11:30 AM. 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 August 7, 2024, PG&E power outage and was assigned RCA number 200528 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown event noted in RCA form submitted on August 8, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

Mike Tejero

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200528)

Attachment A

Copy of GRDF RCA Form (RCA Number 200528)

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Colline, Christian](#); [Azevedo, Becky](#); [Tejero, Michael](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.7.2024
Date: Thursday, August 8, 2024 12:01:57 PM

Confirming receipt, thank you for the update

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Thursday, August 8, 2024 11:45 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: RE: GRDF A3294-RCA for PG&E power outage 8.7.2024

Thank you.
Attached is the RCA form with update on event clear time.

Thanks,
Rajan

From: RCA Notification <rca@baaqmd.gov>
Sent: Thursday, August 8, 2024 10:59 AM
To: Phadnis, Rajan <rphadnis@wm.com>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.7.2024

Good Morning,

I am confirming receipt and the RCA# for this notification is: RCA200528

Thank You,
Joe Dobosz

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Thursday, August 8, 2024 9:19 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 8.7.2024

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 8/7/2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For Guadalupe Recycling and Disposal Facility

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



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	8/7/2024~9:00 PM	Clear Time	8/8/2024~11:30 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 8/7/2024 at ~9:00 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 8/8/2024.

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
- ✓ **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

August 8, 2024 (via email 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 August 7, 2024, ~ 9:00 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on August 8, 2024, at ~9:15 AM 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 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 August 8, 2024



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	8/7/2024~9:00 PM	Clear Time	
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 _x	<input type="checkbox"/> SO ₂	<input type="checkbox"/> CO	<input type="checkbox"/> CO ₂
<input type="checkbox"/> O ₂	<input type="checkbox"/> H ₂ O	<input type="checkbox"/> Opacity	<input type="checkbox"/> Lead
<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 ₂ O
<input type="checkbox"/> psig	<input type="checkbox"/> pH	<input type="checkbox"/> °Fahrenheit	<input type="checkbox"/> mmHg
		<input type="checkbox"/> Other (describe)	

Event Description:

This breakdown report is being submitted on 8/7/2024 at ~9:00 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 8/8/2024.

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
- ✓ **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
PO Box 20957
San Jose, California 95160
T: 408.268.1670

August 12, 2024 (via email: 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 200531

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 August 9, 2024, at around 10:15 AM because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage on August 8 at ~5:30 PM. The flare was back online on at ~8:00 PM. 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 August 8, 2024, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on August 9, 2024, ~ 10:15 AM and was assigned RCA number 200531 (see Attachment A for copy of RCA and submittal).

The unplanned power outage shutdown event noted in RCA form submitted on August 9, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

A handwritten signature in cursive script that reads "Mike Tejero".

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200531)

Attachment A

Copy of GRDF RCA Form (RCA Number 200531)

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Colline, Christian](#); [Azevedo, Becky](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.8.2024
Date: Friday, August 9, 2024 10:25:36 AM

ID# 200531

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Friday, August 9, 2024 10:13 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 8.8.2024

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 8/8/2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For 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

August 9, 2024 (via email 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 August 8, 2024, ~ 5:30 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on August 9, 2024, at ~10:15 AM 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 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 August 9, 2024



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	8/8/2024~5:20 PM	Clear Time	8/8/2024~6:40 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 8/9/2024 at ~10:15 AM 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 8/9/2024.

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
- ✓ **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
PO Box 20957
San Jose, California 95160
T: 408.268.1670

August 12, 2024 ([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 200531
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 August 8, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted by GRDF at ~10:15 AM on August 9, 2024, because the landfill gas collection and control system (GCCS) temporarily shut down due a PG&E power outage August 8, 2024, ~5:30 PM. The flare was back online on at ~8:00 PM. 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 August 8, 2024, PG&E power outage and was assigned RCA number 200531 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown event noted in RCA form submitted on August 9, 2024, 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. 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 placed the purchase order and received the permanent stationary generator unit during the fourth quarter of 2022. The ATC application was submitted in February 2022. Currently, the GRDF permit application is under review process at BAAQMD.

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 225-5209.

Sincerely,
Guadalupe Recycling & Disposal Facility

Mike Tejero

Michael Tejero
District Manager

cc: Erin Phillips, BAAQMD

Attachment A- Copy of GRDF RCA Form (RCA Number 200531)

Attachment A

Copy of GRDF RCA Form (RCA Number 200531)

From: [RCA Notification](#)
To: [Phadnis, Rajan](#)
Cc: [Colline, Christian](#); [Azevedo, Becky](#); [Erin Phillips](#)
Subject: [EXTERNAL] RE: GRDF A3294-RCA for PG&E power outage 8.8.2024
Date: Friday, August 9, 2024 10:25:36 AM

ID# 200531

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Friday, August 9, 2024 10:13 AM
To: RCA Notification <rca@baaqmd.gov>
Cc: Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: GRDF A3294-RCA for PG&E power outage 8.8.2024

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 8/8/2024, at Guadalupe Recycling and Disposal Facility in San Jose, CA (Facility A3294).

Thank you,
Rajan Phadnis
For 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

August 9, 2024 (via email 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 August 8, 2024, ~ 5:30 PM. GRDF is submitting the breakdown report to Bay Area Air Quality Management District (BAAQMD) on August 9, 2024, at ~10:15 AM 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 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 August 9, 2024



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	8/8/2024~5:20 PM	Clear Time	8/8/2024~6:40 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 _x	<input type="checkbox"/> ▶ SO ₂	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO ₂
<input type="checkbox"/> ▶ O ₂	<input type="checkbox"/> ▶ H ₂ O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<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 ₂ O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input type="checkbox"/> ▶ mmHg
		<input type="checkbox"/> ▶ Other (describe)	

Event Description:

This breakdown report is being submitted on 8/9/2024 at ~10:15 AM 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 8/9/2024.

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.
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- ✓ Fill out the "Site Information and Description Information Required" areas of this form and email to 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.

APPENDIX D

WELL SSM LOG

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: /Tino Robles/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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:187						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event	3/8/24 8:10	3/8/24 8:12	0.03	984 hours (41 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	3/8/2024	Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
X Malfunction Event						117: Gas Collection						
Well ID Number:187						118: Construction Activities						
X Startup Event	4/18/24 8:15	4/18/24 8:17	0.03			X 113: Inspection and Maintenance	4/18/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:192						118: Construction Activities						
X Startup Event	3/8/24 9:45	3/8/24 9:47	0.03	982 hours (41 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	3/8/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:192						118: Construction Activities						
X Startup Event	4/18/24 7:45	4/18/24 7:47	0.03			X 113: Inspection and Maintenance	4/18/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:220						118: Construction Activities						
X Startup Event	2/16/24 11:55	2/16/24 11:57	0.03	1,104 hours (46 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	2/16/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:220						118: Construction Activities						
X Startup Event	4/2/24 11:55	4/2/24 11:57	0.03			X 113: Inspection and Maintenance	4/2/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:235						118: Construction Activities						
X Startup Event	3/21/24 8:30	3/21/24 8:32	0.03	938 hours (39 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	3/21/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:235						118: Construction Activities						
X Startup Event	4/29/24 10:30	4/29/24 10:32	0.03			X 113: Inspection and Maintenance	4/29/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:218						118: Construction Activities						
X Startup Event	4/29/24 11:45	4/29/24 11:47	0.03	164 hours (7 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	4/29/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:218						118: Construction Activities						
X Startup Event	5/6/24 8:00	5/6/24 8:02	0.03			X 113: Inspection and Maintenance	5/6/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:218						118: Construction Activities						
X Startup Event	5/6/24 8:20	5/6/24 8:22	0.03	172 hours (7 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	5/6/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:218						118: Construction Activities						
X Startup Event	5/13/24 12:40	5/13/24 12:42	0.03			X 113: Inspection and Maintenance	5/13/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:213						118: Construction Activities						
X Startup Event	5/13/24 13:20	5/13/24 13:22	0.03	264 hours (11 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	5/13/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:213						118: Construction Activities						
X Startup Event	5/24/24 13:15	5/24/24 13:17	0.03			X 113: Inspection and Maintenance	5/24/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:237						118: Construction Activities						
X Startup Event	5/13/24 13:00	5/13/24 13:02	0.03	359 hours (15 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	5/13/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:237						118: Construction Activities						
X Startup Event	5/28/24 12:00	5/28/24 12:02	0.03			X 113: Inspection and Maintenance	5/28/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:186						118: Construction Activities						
X Startup Event	5/28/24 12:45	5/28/24 12:47	0.03	525 hours (22 days)	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance	5/28/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:186						118: Construction Activities						
X Startup Event	6/19/24 9:30	6/19/24 9:32	0.03			X 113: Inspection and Maintenance	6/19/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X No (Stop)	No (Stop)	
Malfunction Event						117: Gas Collection						
Well ID Number:186						118: Construction Activities						

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: /Tino Robles/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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:193						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	5/29/24 10:30	5/29/24 10:32	0.03	502 hours (21 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	5/29/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:193						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	6/19/24 8:00	6/19/24 8:02	0.03			X 116: Well Raising	6/19/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:154						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	6/5/24 13:00	6/5/24 13:02	0.03	454 hours (19 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	6/5/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:154						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	6/24/24 10:30	6/24/24 10:32	0.03			X 116: Well Raising	6/24/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:151						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	6/19/24 11:55	6/19/24 11:57	0.03	455 hours (19 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	6/19/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:151						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/8/24 11:00	7/8/24 11:02	0.03			X 116: Well Raising	7/8/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:188						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	6/20/24 13:30	6/20/24 13:32	0.03	456 hours (19 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	6/20/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:188						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/9/24 13:15	7/9/24 13:17	0.03			X 116: Well Raising	7/9/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:152						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/8/24 11:20	7/8/24 11:22	0.03	335 hours (14 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	7/8/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:152						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/22/24 10:37	7/22/24 10:39	0.03			X 116: Well Raising	7/22/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:177						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/8/24 14:15	7/8/24 14:17	0.03	524 hours (22 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	7/8/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:177						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/30/24 10:30	7/30/24 10:32	0.03			X 116: Well Raising	7/30/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:233						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/26/24 8:30	7/26/24 8:32	0.03	101 hours (4 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	7/26/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:233						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/30/24 13:30	7/30/24 13:32	0.03			X 116: Well Raising	7/30/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:232						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/18/24 13:40	7/18/24 13:42	0.03	427 hours (18 days)	Well Located in Active Filling Area. Well Raised.	X 116: Well Raising	7/18/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						
Well ID Number:232						113: Inspection and Maintenance		X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	8/5/24 8:20	8/5/24 8:22	0.03			X 116: Well Raising	8/5/2024	Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
X Shutdown Event						117: Gas Collection						
Malfunction Event						118: Construction Activities						

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: /Tino Robles/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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:233												
Startup Event	8/2/24 11:15	8/2/24 11:17	0.03	334 hours (14 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	8/2/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:233												
Startup Event	8/16/24 9:30	8/16/24 9:32	0.03			113: Inspection and Maintenance	8/16/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:199												
Startup Event	8/23/24 15:45	8/23/24 15:47	0.03	.2 hours	Well offline during pipe repair.	113: Inspection and Maintenance	8/23/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 117: Gas Collection		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						118: Construction Activities						
Well ID Number:199												
Startup Event	8/23/24 15:56	8/23/24 15:58	0.03			113: Inspection and Maintenance	8/23/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:196												
Startup Event	8/2/24 13:30	8/2/24 13:32	0.03	311 hours (13 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	8/2/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:196												
Startup Event	8/15/24 12:30	8/15/24 12:32	0.03			113: Inspection and Maintenance	8/15/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:202												
Startup Event	8/27/24 12:00	8/27/24 12:02	0.03	815 hours (34 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	8/27/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:202												
Startup Event	9/30/24 10:34	9/30/24 10:36	0.03			113: Inspection and Maintenance	9/30/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:179												
Startup Event	8/27/24 10:20	8/27/24 10:22	0.03	145 hours (6 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	8/27/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:179												
Startup Event	9/2/24 11:00	9/2/24 11:02	0.03			113: Inspection and Maintenance	9/2/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:217												
Startup Event	9/5/24 10:00	9/5/24 10:02	0.03	146 hours (6 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	9/5/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:217												
Startup Event	9/11/24 11:30	9/11/24 11:32	0.03			113: Inspection and Maintenance	9/11/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:189												
Startup Event	9/10/24 12:00	9/10/24 12:02	0.03	71 hours (3 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	9/10/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:189												
Startup Event	9/13/24 10:30	9/13/24 10:32	0.03			113: Inspection and Maintenance	9/13/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:179												
Startup Event	9/11/24 12:20	9/11/24 12:22	0.03	289 hours (12 days)	Well Located in Active Filling Area. Well Raised.	113: Inspection and Maintenance	9/11/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						
Well ID Number:179												
Startup Event	9/23/24 13:30	9/23/24 13:32	0.03			113: Inspection and Maintenance	9/23/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4		Yes (Go to Section 11)	Yes (Go to Section 12)
X Shutdown Event						X 116: Well Raising		Automatic (Go to Section 11)		X	No (Stop)	No (Stop)
Malfunction Event						117: Gas Collection						

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)
 - 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 arrestor 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 arrestor 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	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 -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 arrestor -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 diagnosis 47. Open manual louvers 48. Clean pilot orifice 49. Clean/drain flame arrestor 50. Refill propane supply 51. Check/repair pilot sparking system

(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: Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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												
<input type="checkbox"/> Startup Event						113: Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
<input checked="" type="checkbox"/> Shutdown Event	4/01/24 00:00	4/01/24 00:02	0.03			116: Well Raising	4/1/2024	Automatic (Go to Section 10)		No (Stop)	No (Stop)	
<input type="checkbox"/> Malfunction Event						117: Gas Collection						
Component: A-9 Flare				4,392.0	Flare shutdown during reporting period. Landfill gas diverted to primary control device, flare A-17.	118: Construction Activities						
<input type="checkbox"/> Startup Event						113: Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
<input type="checkbox"/> Shutdown Event	9/30/24 23:59	10/01/24 00:05	0.10			116: Well Raising	10/1/2024	Automatic (Go to Section 10)		No (Stop)	No (Stop)	
<input type="checkbox"/> Malfunction Event						117: Gas Collection						
						118: Construction Activities						
TOTAL DOWNTIME April 1, 2024 Through September 30, 2024			4392.0									
TOTAL RUNTIME April 1, 2024 Through September 30, 2024			0.0									
TOTAL HOURS April 1, 2024 Through September 30, 2024(HOURS):			4392.0									

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/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	4/09/24 14:56	4/09/24 15:00	0.07	1.2	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200272 was assigned. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	4/9/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
Component: A-17 Flare						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)	
X Startup Event	4/09/24 16:10	4/09/24 16:14	0.07			116. Well Raising 117. Gas Collection 118. Construction Activities	4/9/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
X Shutdown Event												
X Malfunction Event												
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	6/30/24 18:24	6/30/24 18:28	0.07	11.8	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200443 was assigned. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	6/30/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/1/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Startup Event	7/01/24 06:14	7/01/24 06:18	0.07	0.5	Flare A-17 shutdown during maintenance on compressor. Repaired Air Dryer unit. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/1/2024	X Automatic (Go to Section 10)		X No (Stop)		No (Stop)
X Shutdown Event						X 113. Inspection and Maintenance		Manual (Go to Section 8)	Procedure 1 to 4	Yes (Go to Section 10)	Yes (Go to Section 11)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/1/2024	X Automatic (Go to Section 10)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/06/24 02:20	7/06/24 02:24	0.07	11.5	Flare A-17 shutdown caused by air compressor shutdown event. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/6/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/6/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/06/24 14:18	7/06/24 14:22	0.07	19.1	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/6/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 09:26	7/07/24 09:30	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 09:34	7/07/24 09:38	0.07	0.3	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 09:52	7/07/24 09:56	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 10:16	7/07/24 10:20	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 10:28	7/07/24 10:32	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 10:32	7/07/24 10:36	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 10:46	7/07/24 10:50	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 10:50	7/07/24 10:54	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						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)	
X Malfunction Event						116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
Component: A-17 Flare						X 113. Inspection and Maintenance		Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event	7/07/24 11:02	7/07/24 11:06	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	116. Well Raising 117. Gas Collection 118. Construction Activities	7/7/2024	X Automatic (Go to Section 11)		X No (Stop)		No (Stop)
X Shutdown Event												
X Malfunction 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/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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 Shutdown Event Malfunction Event	7/07/24 11:06	7/07/24 11:10	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/07/24 11:18	7/07/24 11:22	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 11:22	7/07/24 11:26	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/07/24 11:36	7/07/24 11:40	0.07	5.8	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 17:28	7/07/24 17:32	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 17:32	7/07/24 17:36	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/07/24 17:44	7/07/24 17:48	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 17:48	7/07/24 17:52	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 18:00	7/07/24 18:04	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 18:04	7/07/24 18:08	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 18:18	7/07/24 18:22	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 18:22	7/07/24 18:26	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/07/24 18:34	7/07/24 18:38	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 18:38	7/07/24 18:42	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 20:00	7/07/24 20:04	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 20:04	7/07/24 20:08	0.07	0.2	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Compressor alarm was addressed. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/07/24 20:14	7/07/24 20:18	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) 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/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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 Shutdown Event Malfunction Event	7/07/24 20:22	7/07/24 20:26	0.07	0.1	Flare A-17 was shutdown during troubleshooting of air compressor alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/07/24 20:28	7/07/24 20:32	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/7/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/15/24 12:38	7/15/24 12:42	0.07	1.8	Flare A-17 shutdown caused by compressor high pressure alarm. Performed KOP maintenance. Cleaned flowmeter. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/15/2024	X Automatic (Go to Section 11)	Procedure No. 1 to 3	No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/15/24 14:28	7/15/24 14:32	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/15/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/15/24 14:32	7/15/24 14:36	0.07	0.3	Flare A-17 shutdown due to failed startup sequence caused by compressor high pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/15/2024	X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/15/24 14:52	7/15/24 14:56	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/15/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/17/24 09:36	7/17/24 09:40	0.07	0.2	Flare A-17 was shut down during replacement of compressor inlet valve. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/17/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/17/24 09:50	7/17/24 09:54	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/17/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	7/24/24 09:22	7/24/24 09:26	0.07	1.4	Flare A-17 was shutdown to replace thermocouple. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/24/2024	X Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	7/24/24 10:46	7/24/24 10:50	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/24/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/07/24 20:36	8/07/24 20:40	0.07	14.8	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200528 was assigned. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/7/2024	X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/08/24 11:24	8/08/24 11:28	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/8/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/08/24 17:10	8/08/24 17:14	0.07	2.8	Flare A-17 shutdown during unplanned power outage. RCA was filed. RCA number 200531 was assigned. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/8/2024	X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/08/24 20:00	8/08/24 20:04	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/8/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/28/24 10:28	8/28/24 10:32	0.07	0.6	Flare A-17 shutdown during maintenance and inspection. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/28/24 11:02	8/28/24 11:06	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/28/24 11:48	8/28/24 11:52	0.07	0.2	Flare A-17 shutdown during installation of Ranger device. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/28/24 11:58	8/28/24 12:02	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/28/24 12:26	8/28/24 12:30	0.07	0.2	Flare A-17 shutdown during installation of Ranger device. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/28/24 12:36	8/28/24 12:40	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-17 Flare Startup Event X Shutdown Event Malfunction Event	8/28/24 13:08	8/28/24 13:12	0.07	0.1	Flare A-17 shutdown due to compressor low temperature alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	X No (Stop)	
Component: A-17 Flare X Startup Event Shutdown Event Malfunction Event	8/28/24 13:16	8/28/24 13:20	0.07			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/28/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) 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/Nicolas Moffit/Rajan Phadnis

Guadalupe Recycling & Disposal Facility, San Jose, CA												
SSMP REPORT - From April 1, 2024 Through September 30, 2024												
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 Escalation	(12) Describe Emission Standard(s) Exceeded
Component: A-17 Flare	9/06/24 07:08	9/06/24 07:12	0.07	1.3	Flare A-17 shutdown due to compressor low pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance	9/6/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/06/24 08:24	9/06/24 08:28	0.07			X 113: Inspection and Maintenance	9/6/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/09/24 08:44	9/09/24 08:48	0.07	0.1	Flare A-17 shutdown due to compressor low pressure alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance	9/9/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/09/24 08:48	9/09/24 08:52	0.07			X 113: Inspection and Maintenance	9/9/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/09/24 08:52	9/09/24 08:56	0.07	0.9	Flare A-17 shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance	9/9/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/09/24 09:48	9/09/24 09:52	0.07			X 113: Inspection and Maintenance	9/9/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 11:10	9/27/24 11:14	0.07	0.9	Flare A-17 shutdown due to compressor low pressure fault. Cracked air line was repaired. Flare was inspected and restarted.	X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		X Automatic (Go to Section 11)		No (Stop)	X No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
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Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07			X 113: Inspection and Maintenance	9/27/2024	Manual (Go to Section 9)	Procedure No. 1 to 4	Yes (Go to Section 11)	Yes (Go to Section 12)	
X Startup Event						116: Well Raising		Automatic (Go to Section 11)		No (Stop)	No (Stop)	
X Shutdown Event						117: Gas Collection						
Component: A-17 Flare	9/27/24 12:02	9/27/24 12:06	0.07									

(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">a. Press Emergency Stop if necessaryb. 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: <ul style="list-style-type: none">a. Valves are in correct positionb. Levels, pressures, and temperatures are within normal starting rangec. Alarms are clearedd. 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	<ul style="list-style-type: none">-Flame arrestor 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	<ul style="list-style-type: none">1. Repair breakages in extraction piping2. Clean flame arrestor3. Repair blockages in extraction piping4. Verify automatic valve operation, compressed air/nitrogen supply5. Notify power utility, if appropriate6. Provide/utilize auxiliary power source, if necessary7. Repair Settlement in Collection Piping8. Repair Blower9. Activate back-up blower, if available10. Clean knock-up pot/demister11. Drain knock-out pot
Extraction Wells and Collection Piping	Conduits for extractions and movement of LFG flow	Collection well and pipe failures	<ul style="list-style-type: none">-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)	<ul style="list-style-type: none">12. Repair leaks or breaks in lines or wellheads13. Follow procedures for loss of LFG flow/blower malfunction14. Repair blockages in collection piping15. Repair settlement in collection piping16. Re-install, repair, or replace piping
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	<ul style="list-style-type: none">- 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	<ul style="list-style-type: none">17. Check/reset breaker18. Check/repair electrical panel components19. Check/repair transformer20. Check/repair motor starter21. Check/repair electrical line22. Test amperage to various equipment23. Contact electricity supplier24. Contact/contract electrician25. Provide auxiliary power (if necessary)
LFG Control Device	Combusts LFG	Low temperature conditions at control device	<ul style="list-style-type: none">-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	<ul style="list-style-type: none">26. Check/repair temperature monitoring equipment27. Check/repair thermocouple and/or wiring28. Follow procedures for loss of flow/blower malfunction29. Check/adjust louvers30. Check/adjust air/fuel controls
LFG Control Device	Combusts LFG	Loss of Flame	<ul style="list-style-type: none">-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	<ul style="list-style-type: none">31. Check/repair temperature monitoring equipment32. Check/repair thermocouple33. Follow procedures for loss of flow/blower malfunction34. Check/adjust air/fuel controls35. Check/adjust/repair flame sensor36. Check/adjust LFG collectors
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">-Problems with orifice plate, pitot tube, or other in-line flow measuring device-Problems with device controls and/or wiring-Problems with chart recorder	<ul style="list-style-type: none">37. Check/adjust/repair flow measuring device and/or wiring38. Check/repair chart recorder39. Replace paper in chart recorder
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">-Problems with thermocouple-Problems with device controls and/or wiring-Problems with chart recorder	<ul style="list-style-type: none">40. Check/adjust/repair thermocouple41. Check/adjust/repair controller and/or wiring42. Check/adjust/repair electrical panel components43. Check/repair chart recorder44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	<ul style="list-style-type: none">-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 arrestor-Alarmed malfunction conditions not covered above-Unalarmed conditions discovered during inspection not covered above	<ul style="list-style-type: none">45. Site-specific diagnosis procedures46. Site-specific responses actions based on47. Open manual louvers48. Clean pitot orifice49. Clean/drain flame arrestor50. Refill propane supply51. 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 April 1, 2024 Through September 30, 2024

Flare A-9

REPORT PREPARED BY:

Rajan Phadnis

DATE:

October 1, 2024

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 April 2024			
			No deviations, inoperative monitors, or missing data occurred in May 2024			
			No deviations, inoperative monitors, or missing data occurred in June 2024			
			No deviations, inoperative monitors, or missing data occurred in July 2024			
			No deviations, inoperative monitors, or missing data occurred in August 2024			
			No deviations, inoperative monitors, or missing data occurred in September 2024			

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 April 1, 2024 Through September 30, 2024						
Flare A-17 (previously designated as A-14)						
REPORT PREPARED BY: Rajan Phadnis			DATE: October 1, 2024			
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 April 2024						
No deviations, inoperative monitors, or missing data occurred in May 2024						
No deviations, inoperative monitors, or missing data occurred in June 2024						
No deviations, inoperative monitors, or missing data occurred in July 2024						
No deviations, inoperative monitors, or missing data occurred in August 2024						
No deviations, inoperative monitors, or missing data occurred in September 2024						

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 1,468°F limit established in the February 1, 2024 Annual Source Test, pursuant to as required by Authority to Construct.

APPENDIX G

COVER INTEGRITY MONITORING REPORTS

Monthly Cover Monitoring

LOCATION: Guadalupe Rubbish Disposal Company, Inc.

INSPECTION DATE: 4.3.2024, 4.11.2024, and 4.12.2024

REPORT DATE: 4.26.2024

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 crack near well 131	-	Operations will address this location
Erosion on condensate main line off main road (identified 12.2023)	4.11.2024	Added soil and compacted
Erosion on front face near well 161 (identified 2.2024)	4.11.2024	Added soil and compacted
Ponding near well 200 (identified 2.2024)	4.12.2024	Added soil and compacted
Erosion near entrance to active fill area (identified 02.2024)	4.12.2024	Added soil 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: 5.21.2024 and 5.29.2024

REPORT DATE: 5.29.2024

TECHNICIAN: Nicolas Moffit

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 crack near well 131	5.21.2024	Added soil

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: 6.28.2024

REPORT DATE: 6.28.2024

TECHNICIAN: Nicolas Moffit

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:

[illegible]

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: 9.13.2024 and 9.23.2024

REPORT DATE: 9.30.2024

TECHNICIAN: Nicolas Moffit

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:

[illegible]

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

August 26, 2024

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

**Re: Third Quarter 2024 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 Third Quarter 2024 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_v) 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_v (areas of concern) or 500 ppm_v (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_v 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)(3).

Grids with results greater than 25 ppm_v were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm_v 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_v. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm_v 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_v 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_v must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

THIRD QUARTER 2024 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Third Quarter 2024.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on July 22, 2024, 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_v

There were five (5) exceedance locations of 500 ppm_v as methane detected on July 22, 2024. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (July 23, 2024).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on July 30, 2024. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on August 21, 2024. All locations were observed at less than 500 ppm_v.

Readings between 200 ppm_v and 499 ppm_v (Initial and Re-monitored)

There were no readings between 200 ppm_v and 499 ppm_v as methane detected during the initial monitoring event July 23, 2024. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm_v but below 500 ppm_v are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on July 23, 2024, accordance with the ACO and requirements outlined in CCR Title 17 §95469.

Initial Monitoring Event Exceedances of 25 ppm_v

There were no grids with exceedances of 25 ppm_v as methane detected during monitoring on July 23, 2024.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B, Integrated SEM 25 ppm_v 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 July 22, 2024. No leaks greater than 500 ppm_v were identified. 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. Measurable precipitation was seen during 30-day re-monitoring event. A repeat 30-day re-monitoring was conducted in the following week when no measurable precipitation was seen to confirm the results. Any conflicts with precipitation requirements are discussed in the results section of this document.

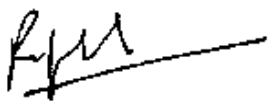
EQUIPMENT CALIBRATION

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_v in air for integrated sample analyses and 500 ppm_v 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

- 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

2024 QUARTER: 3

PERFORMED BY: RES

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O1	70	7/22/2024	2,000	Well 240
O2	65	7/22/2024	1,500	Well 241
O3	65	7/22/2024	570	Well 243
O4	20	7/22/2024	1,300	Well 146
O5	16	7/22/2024	700	Well 180

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)

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: WM-Nicolas Moffit

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Wind Direction: S

Wind Speed: 6

Wind Direction: W

Wind Speed: 3

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments_Wells
Flag/Grid	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	
O1	7/22/2024	2,000	7/23/2024	Added Soil and water	7/30/2024	208		8/21/2024	287		
O2	7/22/2024	1,500	7/23/2024	Added Soil and water and packed	7/30/2024	307		8/21/2024	423		Well 241
O3	7/22/2024	570	7/23/2024	Added Soil and water and compacted	7/30/2024	62		8/21/2024	121		Well 243
O4	7/22/2024	1,300	7/23/2024	Added Soil and water and compacted	7/30/2024	97		8/21/2024	148		Well 146
O5	7/22/2024	700	7/23/2024	Added Soil and water and compacted	7/30/2024	106		8/21/2024	236		Well 180

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

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: WM-Nicolas Moffit

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments-Wells
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	
70	7/22/2024	2,000	7/30/2024	208					Well 240
65	7/22/2024	1,500	7/30/2024	307					Well 241
65	7/22/2024	570	7/30/2024	62					Well 243
20	7/22/2024	1,300	7/30/2024	97					Well 146
16	7/22/2024	700	7/30/2024	106					Well 180

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

2024 QUARTER: 3

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					

Site: 6450914pE

383

**GUADALUPE LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LESLIE WADSWORTH ANTHONY CUNHALES
JERRY MERRILL MARILYN ARCHER
RODIE DE LA ROSA

Cal. Gas Exp. Date: 11-10-24

Date: 7-22-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 78 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	1200	1215	21	3	3	Q	
2	JM	1200	1215	46	3	3	Q	
4	EO	1200	1215	19	3	3	Q	
5	AC	1200	1215	40	3	3	Q	
11	MA	1200	1215	15	3	3	Q	
15	LW	1215	1230	75	1	3	Q	
16	JM	1215	1230	700	1	3	Q	WFI/180
19	EO	1215	1230	26	1	3	Q	
20	AC	1215	1230	1,300	1	3	Q	WFI/146
21	MA	1215	1230	58	1	3	Q	
24	LW	1230	1245	41	1	3	Q	
25	JM	1230	1245	89	1	3	Q	
26	EO	1230	1245	108	1	3	Q	
29	AC	1230	1245	56	1	3	Q	
30	MA	1230	1245	92	1	3	Q	
31	LW	1245	1300	60	1	2	Q	
35	JM	1245	1300	22	1	2	Q	
36	EO	1245	1300	44	1	2	Q	
37	AC	1245	1300	68	1	2	Q	
41	MA	1245	1300	39	1	2	Q	
42	LW	1300	1315	55	1	2	Q	
43	JM	1300	1315	36	1	2	Q	
47	EO	1300	1315	18	1	2	Q	
48	AC	1300	1315	26	1	2	Q	
49	MA	1300	1315	84	1	2	Q	
50	LW	1315	1330	52	2	3	Q	
54	JM	1315	1330	70	2	3	Q	
55	EO	1315	1330	45	2	3	Q	
59	AC	1315	1330	81	2	3	Q	
60	MA	1315	1330	32	2	3	Q	

Attach Calibration Sheet

Attach site map showing grid ID

Page 1 of 3

**GUADALUPE LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LEISHA NOC ANTHONY CASALES
JERRY MARRAZ MARCUS ADRIAN
RODOLFO LIRAS Cal. Gas Exp. Date: 11-10-24

Date: 7-22-24 Instrument Used: FLA 1000 Grid Spacing: 25'

Temperature: 78 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
61	LN	1330	1345	45	2	3	G	
64	JM	1330	1345	51	2	3	G	
65	ED	1330	1345	1500	2	3	G	WEN 241
66	AC	1330	1345	39	2	3	G	
67	MA	1330	1345	85	2	3	G	
69	LN	1345	1400	62	1	2	G	
70	JM	1345	1400	2,000	1	2	G	WEN 240
71	ED	1345	1400	54	1	2	G	
72	AC	1345	1400	32	1	2	G	
73	MA	1345	1400	68	1	2	G	
74	LN	1400	1415	50	3	5	G	
75	JM	1400	1415	114	3	5	G	
76	ED	1400	1415	59	3	5	G	
77	AC	1400	1415	34	3	5	G	
78	MA	1400	1415	60	3	5	G	
79	LN	1415	1430	45	3	4	G	
80	JM	1415	1430	162	3	4	G	
81	ED	1415	1430	66	3	4	G	
82	AC	1415	1430	59	3	4	G	
83	MA	1415	1430	96	3	4	G	
84	LN	1430	1445	108	1	3	G	
85	JM	1430	1445	75	1	3	G	
86	ED	1430	1445	54	1	3	G	
87	AC	1430	1445	42	1	3	G	
88	MA	1430	1445	67	1	3	G	
89	LN	1445	1500	82	2	4	G	
90	JM	1445	1500	114	2	4	G	
91	ED	1445	1500	31	2	4	G	
92	AC	1445	1500	28	2	4	G	
93	MA	1445	1500	60	2	4	G	

Attach Calibration Sheet
 Attach site map showing grid ID

Page 2 of 3

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHNAOE _____
✓ _____
 Cal. Gas Exp. Date: _____

Date: 7-22-24 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	
3								Act. up-faces
6								
7								
8								
9								
10								
12								
13								
14								steep slopes
17								
18								
22								
27								
32								
38								
44								
51								
56								
23								no waste in place
28								
33								
39								
45								
52								
57								
62								
34								
40								
46								
53								

Attach Calibration Sheet
 Attach site map showing grid ID

Personnel: LESLIE _____

Cal. Gas Exp. Date: _____

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

[illegible]

GUADALUPE LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2024
Quarter: 3RD

IME Date	IME Location ID	IME Concentration (ppm)
7-22-24	1100 Riser-1	11
	1110 Riser-2	17
	1104 GUADH12L	24
	1121 GUAD0179	36
	1140 GDLC0196	21
	1106 Riser-3	13
	1118 GUAD0198	40
	1110 GUAD0202	27
	1116 GUAD0176	36
	1121 GUAD0177	29
	1141 GDLC0232	45
	1108 GDLC0233	26
	1122 GUAD0082	38
	1150 GUAD0214	20
	1139 GUAD0122	51
	1115 EW-178	24
	1115 GUAD0199	39
	1131 GUAD0207	26
	1112 GUAD0200	55
	1129 GUAD0161	37
	1120 GUAD0152	21
	1118 GUAD0180	200
	1142 GUAD0208	40
	1126 GUAD0209	46
	1106 GDLC0188	32
	1100 GUAD0147	39
	1115 GUAD0204	28
	1124 GUAD0081	26
	1152 GUAD0146	1300
	1116 GUAD0162	31
	1147 GUAD0151	20
	1134 GUAD0181	64
	1121 GUAD0211	8
	1102 GUAD0213	40
	1121 GUAD0205	35
	1136 GDLC0189	29
	1112 GDLC0236	58
	1121 GDLC0237	77
9	1116 GUAD0201	30
	1110 GUAD0216	64

GUADALUPE LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

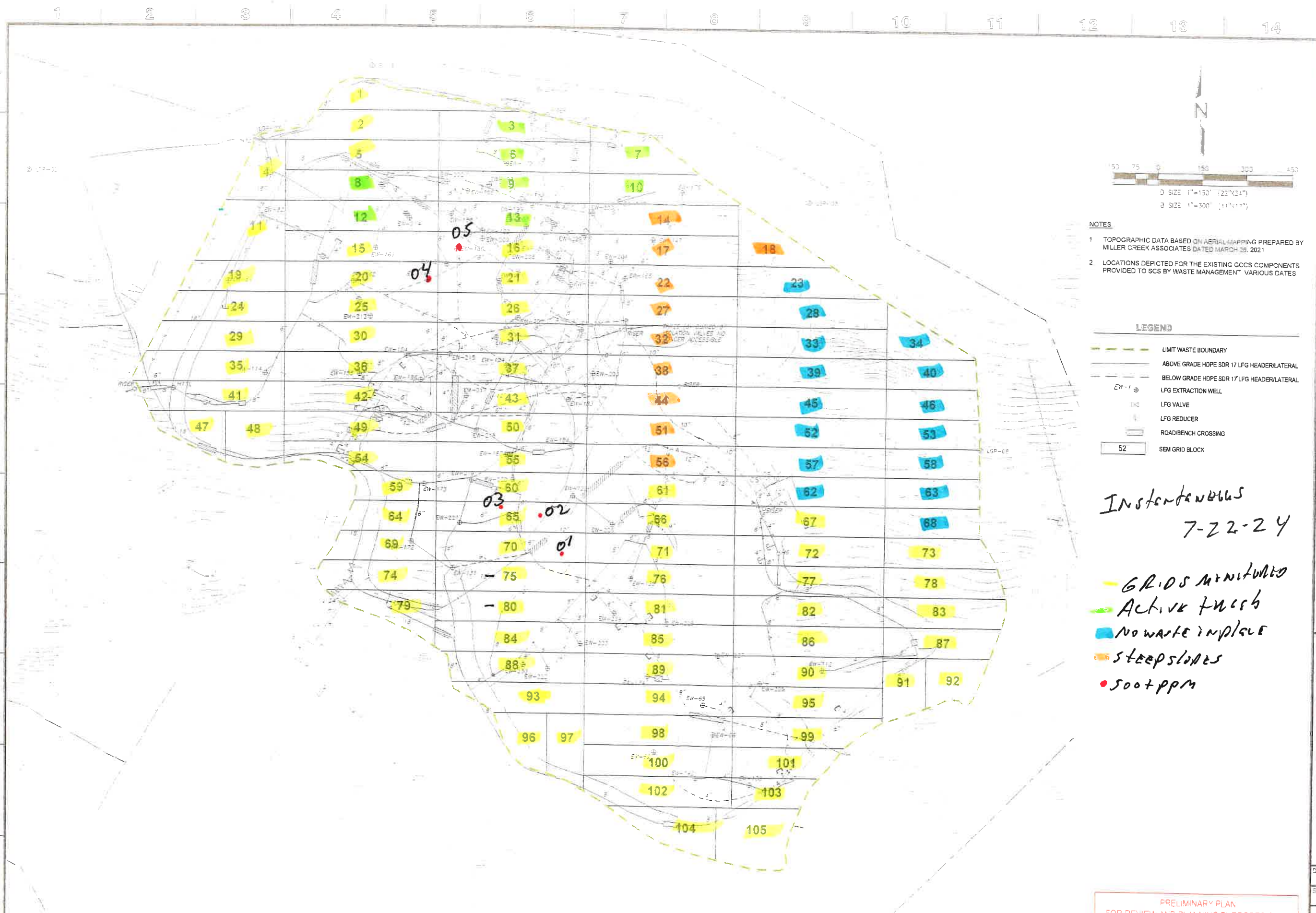
Year: 2024
Quarter: 3Q

IME Date	IME Location ID	IME Concentration (ppm)
7-22-24	1100 GDLC0190	48
	1127 GDLC0234	8
	1104 Riser-4	20
	1155 GUAD0114	45
	1102 GUAD0154	18
	1130 GUAD0185	36
	1104 GUAD0186	22
	1108 GUAD0124	27
	1105 GUAD0215	81
	1115 GDLC0191	45
	1145 GUAD0203	39
	1108 GUADH11L	21
	1126 GDLC0193	70
	1142 GUAD0183	36
	1119 GUAD0217	45
	1107 GDLC0235	20
	1117 Riser-5	13
	1151 GUAD0218	9
	1123 GUAD0184	24
	1126 GUAD0187	13
	1134 GDLC0192	19
	1121 GUAD0173	34
	1115 GUAD0129	46
	1140 GUAD0219	22
	1127 GUAD0220	30
	1124 GDLC0244	42
	1130 CS-1	110
	1122 CS-2	145
	1127 CS-3	89
	1118 GUAD0221	34
	1140 GDLC0241	1,510
	1132 GDLC0243	570
	1105 GUAD0226	50
	1145 GDLC0238	22
	1137 Riser-6	18
	1105 GUAD0172	26
	1130 GDLC0240	2,000
	1151 GDLC0197	45
	1132 GUAD0131	31
	1115 GDLC0242	107

Year: 2024
Quarter: 3rd

Page 3

\\scs\apps\env\landfill\Kenny\landfill\Kenny\Drawings\Surface Emissions Monitoring\Plan\dwg Sep 08 10:09 AM 1000




NOTES
1 TOPOGRAPHIC DATA BASED ON AERIAL MAPPING PREPARED BY MILLER CREEK ASSOCIATES DATED MARCH 26, 2021
2 LOCATIONS DEPICTED FOR THE EXISTING GCCS COMPONENTS PROVIDED TO SCS BY WASTE MANAGEMENT VARIOUS DATES

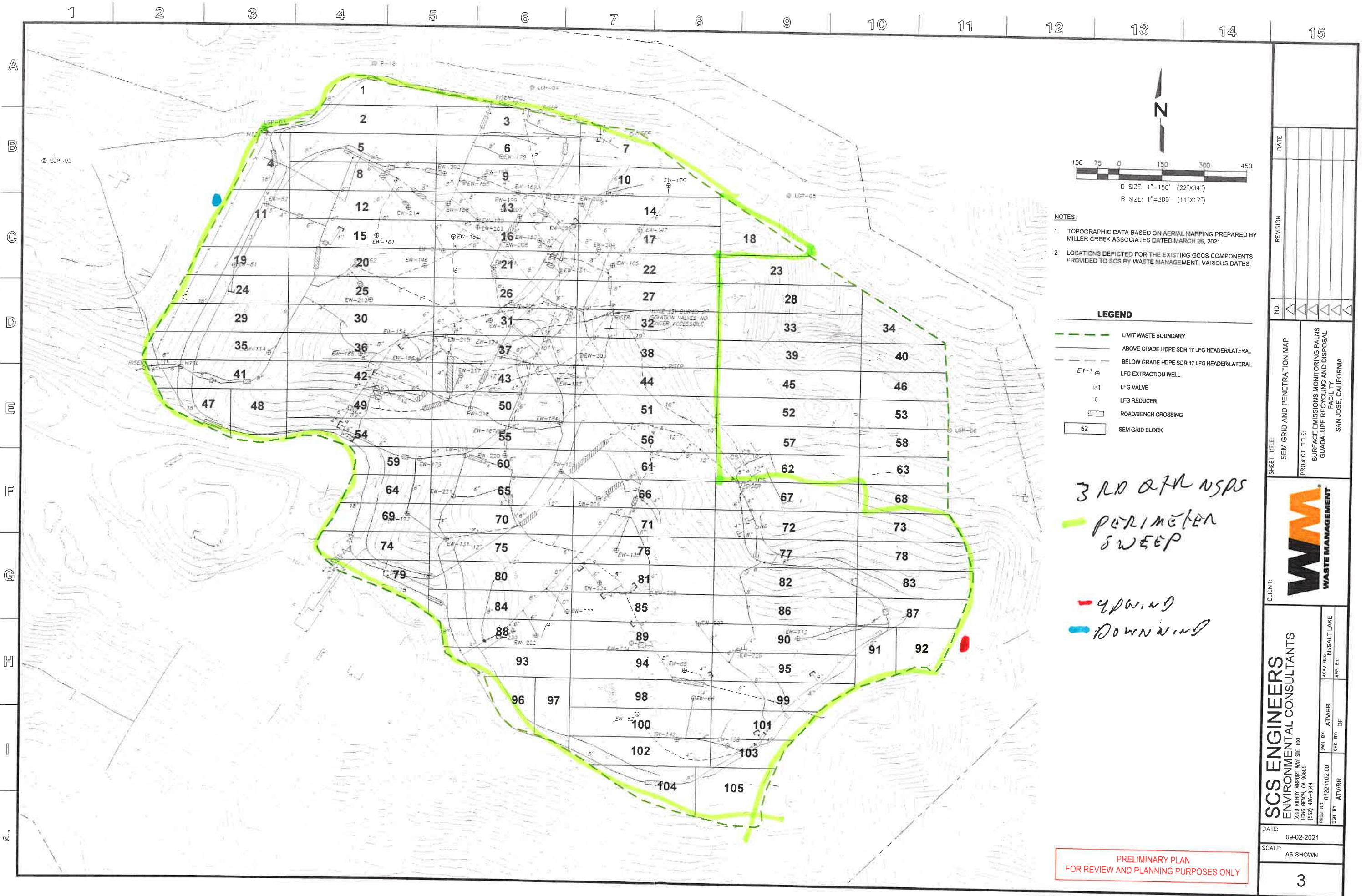
LEGEND
--- LIMIT WASTE BOUNDARY
--- ABOVE GRADE HDPE SDR 17 LFG HEADER/LATERAL
--- BELOW GRADE HDPE SDR 17 LFG HEADER/LATERAL
EW-1 LFG EXTRACTION WELL
LFG VALVE
LFG REDUCER
ROAD/BENCH CROSSING
52 SEM GRID BLOCK

Instantaneous
7-22-24
GRIDS monitored
Active trench
No waste in place
steep slopes
500+ ppm

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 1000 KILGORY AVENUE, SUITE 100 LONG BEACH, CA 90805 (562) 476-9514										CLIENT				SHEET TITLE SEM GRID AND PENETRATION MAP		NO		REVISION		DATE			
DATE: 09-02-2021										SCALE: AS SHOWN		PROJECT NO: 01221102 00		DATE: 01/21/00		ATVRR		DWG. SET		ATVRR		ACCU FILE: N/SL LAKE	

N:\Soil Loko\Guadalupe Recycling and Disposal Facility - San Jose, CA\Surface Emissions Plans 2021\Drawings\Guadalupe Surface Emissions Monitoring Plans.dwg Sep 08, 2021 - 2:09pm By: 2747



Attachment B

Integrated Surface Emission Monitoring Event Records

Table B.1
Integrated Landfill Surface Monitoring
Exceedances and Monitoring Log

2024 QUARTER: 3

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 Warr Anthony Lomas
JERRY ALLEN MERKE ABRAHAM
BODIE OELING Cal. Gas Exp. Date: 11-10-24

Date: 7-23-24 Instrument Used: LA100 Grid Spacing: 25'

Temperature: 72 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	0600	0625	5.10	3	4	G	
2	JM	0600	0625	7.03	3	4	G	
4	ED	0600	0625	5.24	3	4	F	
5	AC	0600	0625	8.31	3	4	F	
11	MA	0600	0625	6.17	3	4	G	
15	LW	0625	0650	7.91	2	2	F	
16	JM	0625	0650	8.34	2	2	F	
19	ED	0625	0650	4.57	2	2	F	
20	AC	0625	0650	7.80	2	2	F	
21	MA	0625	0650	6.41	2	2	F	
24	LW	0650	0715	5.27	0	1	G	
25	JM	0650	0715	6.14	0	0	G	
26	ED	0650	0715	7.21	0	0	F	
29	AC	0650	0715	6.13	0	0	F	
30	MA	0650	0715	5.31	0	0	G	
31	LW	0715	0740	6.80	0	1	G	
35	JM	0715	0740	5.42	0	1	F	
36	ED	0715	0740	6.51	0	1	G	
37	AC	0715	0740	6.19	0	1	F	
41	MA	0715	0740	5.80	0	1	G	
42	LW	0740	0805	6.13	1	2	G	
43	JM	0740	0805	6.57	1	2	F	
47	ED	0740	0805	5.10	1	2	F	
48	AC	0740	0805	5.42	1	2	F	
49	MA	0740	0805	6.72	1	2	G	
50	LW	0805	0830	7.16	1	1	G	
54	JM	0805	0830	6.89	1	1	G	
55	ED	0805	0830	7.14	1	1	F	
59	AC	0805	0830	6.67	1	1	G	
60	MA	0805	0830	6.54	1	1	G	

Attach Calibration Sheet
 Attach site map showing grid ID

Page 1 of 3

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIS/VNOR Anthony Canales
JERRY MENDOZA MARCUS ABRAHAM
EDDIE P. L. M. Cal. Gas Exp. Date: 11-10-24

Date: 7-23-24 Instrument Used: LVA1000 Grid Spacing: 25'

Temperature: 75 Precip: 0 Upwind BG: 1.8 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
61	LV	0830	0855	8.30	1	1	G	
64	JM	0830	0855	6.80	1	1	G	
65	ED	0830	0855	7.47	1	1	G	
66	MA	0830	0855	6.94	1	1	G	
67	AC	0830	0855	9.13	1	1	G	
69	LV	0855	0920	7.11	1	1	G	
70	JM	0855	0920	8.64	1	1	G	
71	ED	0855	0920	9.21	1	1	G	
72	AC	0855	0920	7.38	1	1	G	
73	MA	0855	0920	7.15	1	1	G	
74	LV	0920	0945	6.97	1	1	8	
75	JM	0920	0945	9.31	1	1	G	
76	ED	0920	0945	5.43	1	1	G	
77	AC	0920	0945	6.89	1	1	G	
78	MA	0920	0945	7.50	1	1	G	
79	LV	0945	1010	6.47	0	1	E	
80	JM	0945	1010	12.70	0	1	G	
81	ED	0945	1010	14.58	0	1	G	
82	AC	0945	1010	8.60	0	1	G	
83	MA	0945	1010	9.18	0	1	G	
84	LV	1010	1035	16.12	1	1	G	
85	JM	1010	1035	14.78	1	1	G	
86	ED	1010	1035	7.40	1	1	G	
87	AC	1010	1035	8.92	1	1	G	
88	MA	1010	1035	11.41	1	1	G	
89	LV	1035	1100	9.62	1	1	E	
90	JM	1035	1100	8.24	1	1	G	
91	ED	1035	1100	6.50	1	1	G	
92	AC	1035	1100	6.41	1	1	G	
93	MA	1035	1100	10.15	1	1	G	

Attach Calibration Sheet
 Attach site map showing grid ID

Page 2 of 3

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH NADE _____

 _____ Cal. Gas Exp. Date: _____

Date: 7-23-24 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	
3								Active Area
6								
7								
8								
9								
10								
12								
13								
14								steep slope
17								
18								
22								
27								
32								
38								
44								
51								
56								
23								no waste in place
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								
58								

Attach Calibration Sheet
 Attach site map showing grid ID

Personnel: Leigh Anne _____

Cal. Gas Exp. Date: _____

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

[illegible]

Page 2 of 2

Attachment C

Component Leak Monitoring Event Records

Table C.1
AB-32 Component Leak Monitoring
Summary of Component Leaks Greater than 500 ppmv

2024 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES-WM

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
Flare Station A-9	7.22.2024	ND	RES	NA	NA	NA	NA	NA
Flare Station A-17	7.22.2024	ND	RES	NA	NA	NA	NA	NA

ND= No Exceedances

Table C.2
BAAQMD Component Leak Monitoring
Summary of Component Leaks Greater than 1,000 ppmv

2024 QUARTER: 3

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
Flare Station A-9	7.22.2024	ND	RES	NA	NA	NA	NA	NA
Flare Station A-17	7.22.2024	ND	RES	NA	NA	NA	NA	NA

LANDFILL NAME: 665051405

FID

MAKE: Thermo Environr

MODEL: TVA 1000

S/N: 10J6346773

DATE OF SAMPLING: 7-22-24

TECHNICIAN: *LEIS & WOOD*

[illegible]

Landfill component: Leak Check
Guadalupe New Flare

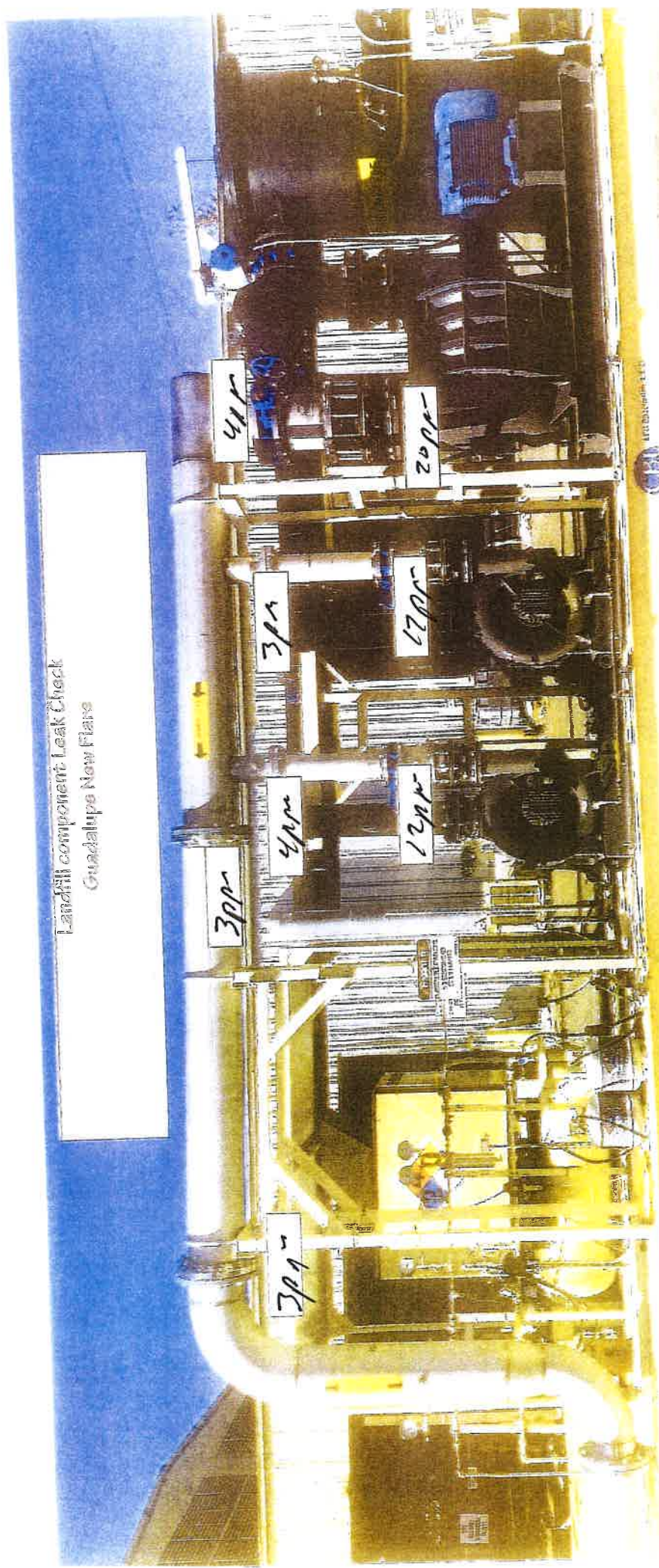


7-22-24

Landfill component: Leak Check
Guadalupe New Flare



Landfill component Leak Check
Guadalupe New Flare



30 psig

30 psig

40 psig

120 psig

170 psig

30 psig

20 psig

40 psig

20 psig

7-22-24

Landfill component Leak Check
Guadalupe

2/12

2/12

3/12

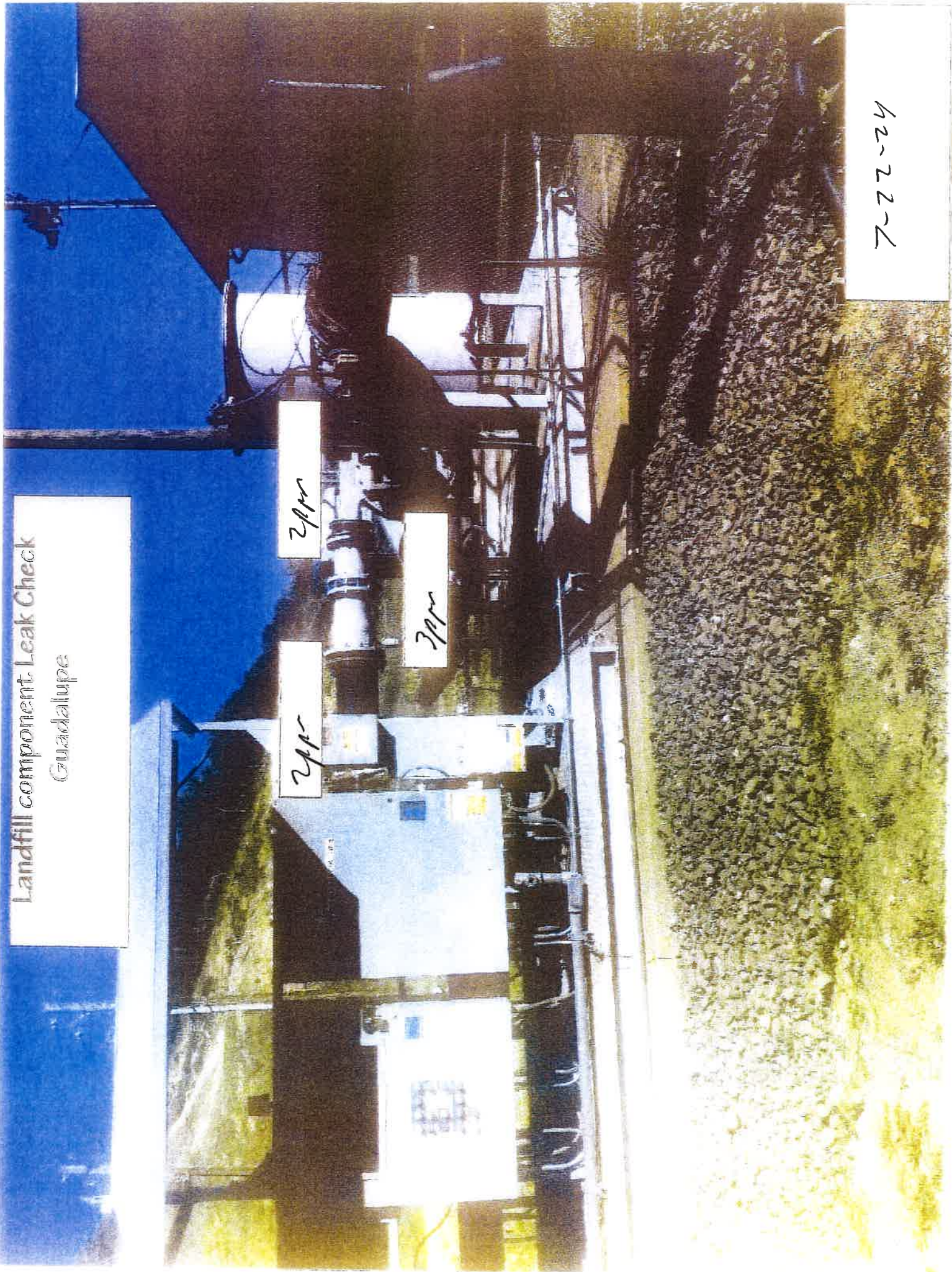
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3/12

7-222-24



Landfill component Leak Check
Guadalupe



42-22-2

Landfill component Leak Check
Guadalupe

3p/s

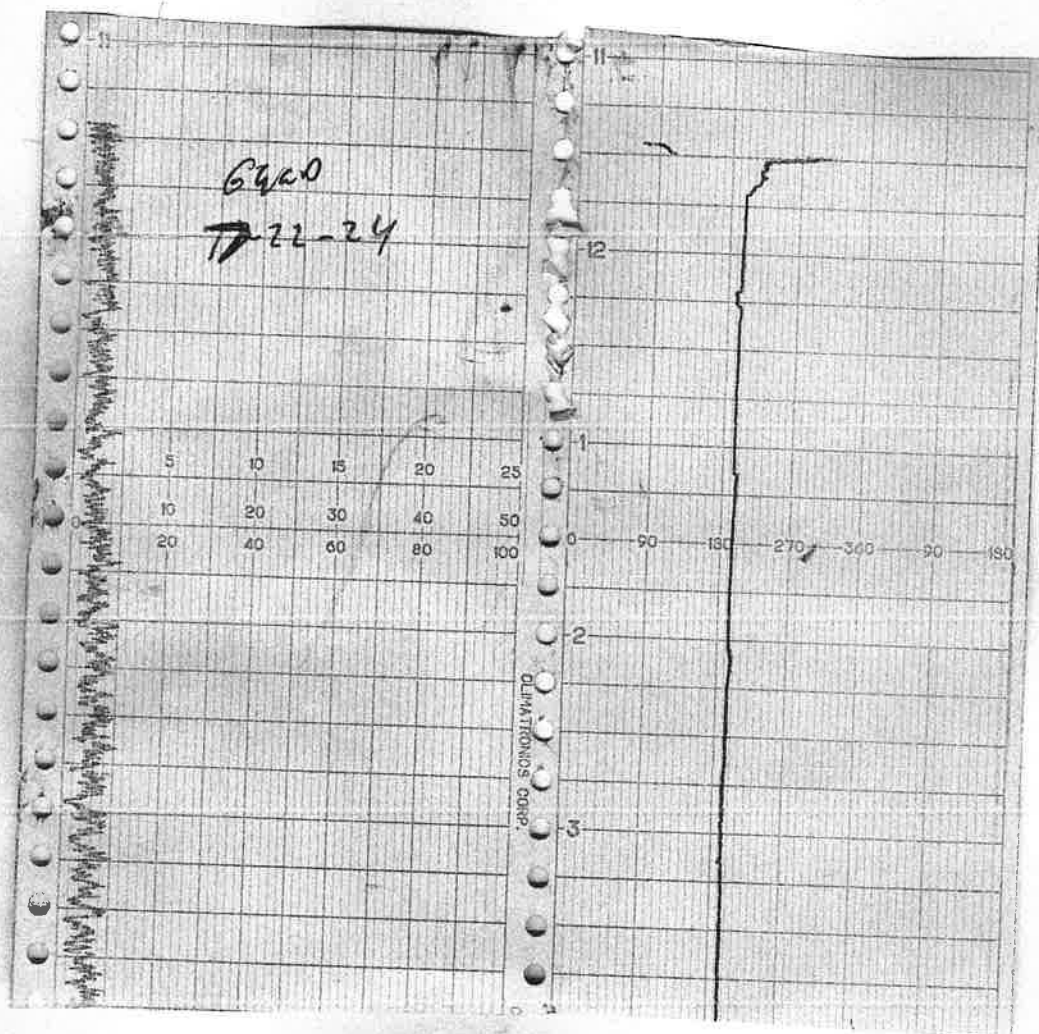
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7-22-24

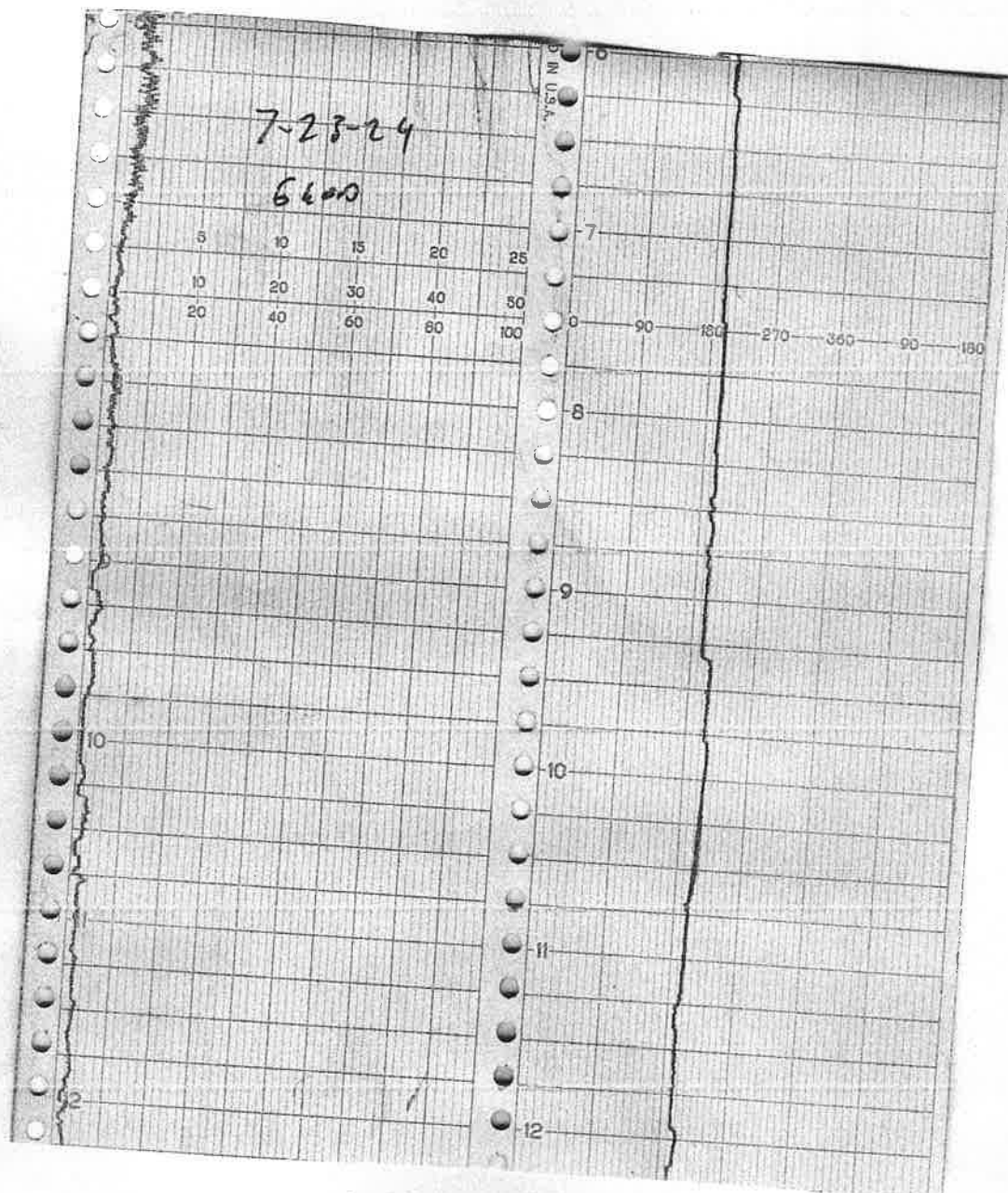


Attachment D
Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL





16-POINT WIND DIRECTION INDEX				
NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
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: Guadalupe INSTRUMENT MAKE: THOR
MODEL: 1VA1000 EQUIPMENT #: 10 SERIAL #: 1036346773
MONITORING DATE: 7-22-24 TIME: 1100

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>495</u> ppm	<u>445</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>0.11</u> ppm	<u>495</u> ppm	<u>5</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>0.33</u> #DIV/0! Must be less than 10%

Performed By: L. B. G. W. 10E Date/Time: 7-22-24 - 1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME 64909/4pt INSTRUMENT MAKE Thermo
MODEL TA1000 EQUIPMENT #: 11 SERIAL # 1036346772
MONITORING DATE 7-22-24 TIME 1100

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>5</u>
#2	<u>498</u> ppm	<u>448</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>0.15</u> ppm	<u>506</u> ppm	<u>6</u>
#2	<u>0.09</u> ppm	<u>498</u> ppm	<u>2</u>
#3	<u>0.07</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: JERRY MAWZ Date/Time: 7-22-24-1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME G450414P5 INSTRUMENT MAKE THANNO
MODEL: 1VA1000 EQUIPMENT # 12 SERIAL # 1036246741
MONITORING DATE 7-22-24 TIME 1100

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>499</u> ppm	<u>449</u> ppm	<u>4</u>
#2	<u>502</u> ppm	<u>452</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>0.10</u> ppm	<u>495</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>502</u> ppm	<u>2</u>
#3	<u>0.07</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>0.20</u> #DIV/0! Must be less than 10%

Performed By: ADDIE DILLON Date/Time 7-22-24-1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Bendalup INSTRUMENT MAKE Hanna
MODEL 101000 EQUIPMENT # 13 SERIAL # 1102746775
MONITORING DATE 7-22-24 TIME: 1100

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>504</u> ppm	<u>454</u> ppm	<u>5</u>
#2	<u>499</u> ppm	<u>449</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>0.13</u> ppm	<u>504</u> ppm	<u>4</u>
#2	<u>0.08</u> ppm	<u>499</u> ppm	<u>1</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>0.33</u> #DIV/0! Must be less than 10%

Performed By: Anthony Canelas Date/Time: 7-22-24-1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Guadalupe INSTRUMENT MAKE Hanna
MODEL 10A1000 EQUIPMENT # 16 SERIAL # 1102746776
MONITORING DATE 7-22-24 TIME 1100

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: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>501</u> ppm	<u>451</u> ppm	<u>6</u>
#2	<u>495</u> ppm	<u>445</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>501</u> ppm	<u>1</u>
#2	<u>0.06</u> ppm	<u>495</u> ppm	<u>5</u>
#3	<u>0.05</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.40</u> #DIV/0! Must be less than 10%

Performed By: MARK ABRILTON Date/Time 7-22-24-1100

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Goodclay- INSTRUMENT MAKE Fluor
MODEL LA 1000 EQUIPMENT #: 10 SERIAL #: 1036346773
MONITORING DATE 7-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>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>0.10</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</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>1.3</u> #DIV/0! Must be less than 10%

Performed By: LAIS/NAAR Date/Time: 7-23-24 0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: Goodyear INSTRUMENT MAKE: Hanna
MODEL: HA1000 EQUIPMENT #: 11 SERIAL #: 1036346772
MONITORING DATE: 7-27-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>7</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>7</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>7</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>0.65</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.09</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.07</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: Jenny M. 102 Date/Time: 7-27-24-0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME 64064pr INSTRUMENT MAKE: Heiduo
MODEL EA1000 EQUIPMENT # 12 SERIAL #: 103624674
MONITORING DATE: 7-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>0.17</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.12</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.08</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: ADDIE DE LUNA Date/Time 7-23-24-0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: G400slp2 INSTRUMENT MAKE FHanno
MODEL: LVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775
MONITORING DATE: 7-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>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>0.15</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.11</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.09</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>2.8</u> #DIV/0! Must be less than 10%

Performed By: Anthony Canales Date/Time: 7-23-24 0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: Good Hope INSTRUMENT MAKE: Hera
MODEL: LVA1000 EQUIPMENT #: 16 SERIAL #: 1102746776
MONITORING DATE: 7-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.2</u> ppm	<u>2.0</u> ppm

Background Value = 2.0 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>0.11</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By: Markus Abraham Date/Time: 7-23-24-0550

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: GRDF

Date: 7/30/24

Time: 10:40 AM _____ PM

Instrument Make: Thermo Scientific Model: TVA 1000B 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 = 498
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 1.58 ppm (a)
2. Downwind Reading (highest in 30 seconds): 1.7 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{1.64} \quad \text{ppm}$$

Performed by: N. Moffitt

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: GUADALUPE Date: 8/21/24
Time: 2:00 PM
Instrument Make: TECHNICAL Model: TA1000 S/N: 0914035112

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.
Stable Reading = 492 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 1.68 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2.1 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{3.69} \text{ ppm}$$

Performed By: NMoffitt

CALIBRATION PRECISION TEST RECORD

Date: 8/21/24

Expiration Date (3 months): 11/21/24

Time: AM 1:10 PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 091463872

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 504 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 502 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 503 ppm (f)

Calculate Precision:

$$\frac{\{|(496) - (500)| + |(500) - (498)| + |(500) - (496)|\}}{3} \times \frac{1}{500} \times 100$$

1.0 % (must be < than 10%)

Performed by: N. Moffitt

RESPONSE TIME TEST RECORD

Date: 9/21/24

Expiration Date (3 months): 11/21/24

Time: AM 1:15 PM

Instrument Make: Waters Scientific Model: TWA0003 S/N: 0914635M

Measurement #1:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 10 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: 10 seconds (b)

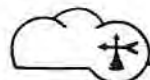
Measurement #3:

Stabilized Reading Using Calibration Gas: 503 ppm
90% of the Stabilized Reading: 451 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \underline{10} \text{ seconds (must be less than 30 seconds)}$$

Performed By: N. Moffitt



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 10

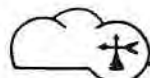
SERIAL NUMBER: 1036346773

TECHNICIAN: MM DATE: 7-7-29

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	499	+/- 125
10000	10000	10,112	+/- 2500
< 1	ZERO GAS	0.54	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #11

SERIAL NUMBER: 1036346774

TECHNICIAN: MM DATE: 7-7-24

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	0.53	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: NES Unit #12

SERIAL NUMBER: 1036246741

TECHNICIAN: JM DATE: 7-7-24

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	0.03	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #13

SERIAL NUMBER: 1102746775

TECHNICIAN: JM DATE: 7-2-29

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	0.01	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES unit #16

SERIAL NUMBER: 1102746776

TECHNICIAN: MM DATE: 7-7-24

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	10000	+/- 2500
< 1	ZERO GAS	0.63	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 40

SERIAL NUMBER: 17192313

TECHNICIAN: MM MM DATE: 7-7-29

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	0.09	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 51

SERIAL NUMBER: 71611369

TECHNICIAN: MM

DATE: 7-7-24

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	0.061	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #45

SERIAL NUMBER: 67210439

TECHNICIAN: MM DATE: 7-7-24

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	0.60	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 49

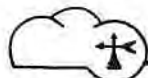
SERIAL NUMBER: 0720723818

TECHNICIAN: M M DATE: 7-7-24

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	10,106	+/- 2500
< 1	ZERO GAS	0.42	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #28

SERIAL NUMBER: 7705062

TECHNICIAN: MM DATE: 7-7-24

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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER:

RES unit #23

SERIAL NUMBER:

1029849167

TECHNICIAN:

MM

DATE:

7-7-29

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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #17

SERIAL NUMBER: 1032645720

TECHNICIAN: MM

DATE: 7-7-29

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	10111	+/- 2500
< 1	ZERO GAS	0.63	< 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: 7-7-24 Time: 0800

Model # TVA 1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</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 ₂ 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>7-7-24</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>5</u>		
		Average <u>5.6</u>		
		Equal to or less than 30 seconds? <u>Y</u> N		
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM MM

Date: 7-7-24 Time: 0815

Model # YVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION							
<p>Battery test <u>Pass / Fail</u></p> <p>Reading following ignition <u>2.4</u> ppm</p> <p>Leak test <u>Pass / Fail / NA</u></p> <p>Clean system check (check valve chatter) <u>Pass / Fail / NA</u></p> <p>H₂ supply pressure gauge (acceptable range 9.5 - 12) <u>Pass / Fail / NA</u></p> <p>Date of last factory calibration <u>7-7-24</u></p> <p>Factory calibration record w/instrument within 3 months <u>Pass / Fail</u></p>	<p>CALIBRATION CHECK</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Calibration Gas (ppm)</th> <th style="text-align: left;">Actual (ppm)</th> <th style="text-align: left;">% Accuracy</th> </tr> <tr> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>100%</u></td> </tr> </table> <p>RESPONSE TIME</p> <p>Calibration Gas, ppm <u>500</u></p> <p>90% of Calibration Gas, ppm <u>450</u></p> <p>Time required to attain 90% of Cal Gas ppm</p> <p>1. <u>5</u></p> <p>2. <u>5</u></p> <p>3. <u>5</u></p> <p>Average <u>5.0</u></p> <p>Equal to or less than 30 seconds? <u>(Y)</u> N</p> <p>Instrument calibrated to <u>CH₄</u> gas.</p>			Calibration Gas (ppm)	Actual (ppm)	% Accuracy	<u>500</u>	<u>500</u>	<u>100%</u>
Calibration Gas (ppm)	Actual (ppm)	% Accuracy							
<u>500</u>	<u>500</u>	<u>100%</u>							

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM

Date: 7-7-24 Time: 0900

Model # 400A 1000

Serial # #14 1036346771

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="checkbox"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.4</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="checkbox"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="checkbox"/> Pass / Fail / NA	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="checkbox"/> Pass / Fail / NA	Calibration Gas, ppm <u>500</u>		
Date of last factory calibration	<u>7-7-24</u>	90% of Calibration Gas, ppm <u>450</u>		
Factory calibration record w/instrument within 3 months	<input checked="" type="checkbox"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>6</u>		
		2. <u>5</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>CH₄</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JH M

Date: 7-7-24 Time: 0915

Model # TCA 1000

Serial # #15 1036346772

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</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 ₂ 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>7-7-24</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> 0 </u>		
		2. <u> 6 </u>		
		3. <u> 5 </u>		
		Average <u> 5.6 </u>		
		Equal to or less than 30 seconds? <input checked="" type="radio"/> Y <input type="radio"/> N		
		Instrument calibrated to <u> C144 </u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 7-7-24 Time: 0930

Model # YMA 1000

Serial # #16 110274676

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</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 ₂ 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>7-7-24</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>5</u>		
		2. <u>5</u>		
		3. <u>6</u>		
		Average <u>5.3</u>		
		Equal to or less than 30 seconds? <u>Y</u> N		
		Instrument calibrated to <u>CLG</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 7-7-24 Time: 0945

Model # TVA 1000

Serial # #40 17192313

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	(Pass / Fail)	CALIBRATION CHECK		
Reading following ignition	<u>216</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	(Pass / Fail / NA)	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	(Pass / Fail / NA)	RESPONSE TIME		
H ₂ supply pressure gauge (acceptable range 9.5 - 12)	(Pass / Fail / NA)	Calibration Gas, ppm <u>500</u>		
Date of last factory calibration	<u>7-7-24</u>	90% of Calibration Gas, ppm <u>450</u>		
Factory calibration record w/instrument within 3 months	(Pass / 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>CEL4</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: M My

Date: 7-7-24 Time: 1000

Model # TVA 1000

Serial # #S1 71611369

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</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 ₂ 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>7-7-24</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>5</u>		
		2. <u>5</u>		
		3. <u>5</u>		
		Average <u>5.0</u>		
		Equal to or less than 30 seconds? <u>(Y)</u> N		
		Instrument calibrated to <u>city</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: Jim My

Date: 7-7-24 Time: 1015

Model # TVA 1000

Serial # #45 67210939

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 ₂ 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>7-7-24</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>5</u>		
		Average <u>5.0</u>		
		Equal to or less than 30 seconds? <input checked="" type="radio"/> N		
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM M

Date: 7-7-24 Time: 1030

Model # TVA 1000

Serial # #99 0720727818

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</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 ₂ 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>7-7-24</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>5</u>		
		Average <u>5.6</u>		
		Equal to or less than 30 seconds? <u>(Y)</u> N		
		Instrument calibrated to <u>CH₄</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: Me M

Date: 7-7-24 Time: 1045

Model # TEA 1000

Serial # #28 7705067

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 ₂ 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>7-7-24</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>5</u>		
		Average <u>5.6</u>		
		Equal to or less than 30 seconds? <u>Y</u> N		
		Instrument calibrated to <u>City</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: M M

Date: 7-7-24 Time: 1100

Model # TMA 1000

Serial # #23 1029845167

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
		<u>500</u>	<u>500</u>	<u>100%</u>
Leak test	<u>Pass</u> / Fail / NA	RESPONSE TIME		
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA			
H ₂ 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>7-7-24</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> 5 </u>		
		2. <u> 5 </u>		
		3. <u> 5 </u>		
		Average <u> 5.0 </u>		
		Equal to or less than 30 seconds? <u> Y </u> N		
		Instrument calibrated to <u> C14 </u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 7-7-24 Time: 1115

Model # TEA 1000

Serial # #17 1032645720

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>21</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 ₂ 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>7-7-24</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>60</u>		
		Equal to or less than 30 seconds? <u>Y</u> N		
		Instrument calibrated to <u>city</u> gas.		

Comments: _____



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# 260447
P/N MET-500-103L

EXP: JAN/2025

TVA

EQUIPCO SALES & SERVICE

2100 MERIDIAN PARK BLVD
Concord, CA 94520
TO REORDER CALL 1 (888) 234-5678

**AIR, ULTRA ZERO
THC <0.2 PPM**

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG
Lot# 260362
P/N AIR-ZER-103L

EXP: JAN/2025

TVA
zero



Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Heights MI 48312

Cust Number 07152
Order Number 75836320
PO Number 04C23328

Lot Number 4-236-82
Norlab Part# J1002
Cylinder Size 103 Liter
Number of Cyl 2

Date on Manufacture 8/29/2024
Expires 08/2028
Analytical Accuracy Certified

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 0.1 ppm	< 0.1 ppm
Nitrogen	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved:


David Reed
Lab Technician

Date Signed:

8/29/2024



800-682-7937
www.premiersafety.com

33596 Sterling Heights
Sterling Heights, MI

Components

Concentration (Mole %)

Oxygen
H₂C (as Methane)
Nitrogen

Zero Grade
20.9 %
< 0.1 ppm
Balance

Part No: 4-236-82
Certification: Certified
Lot: J1002
Contents: 103Liters-3.6Cu.Ft., -1000psig

MFG Date: 8/29/2024
Exp. Date: 08/2028

CALIBRATION GAS



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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Heights MI 48312

Cust Number 07152
Order Number 69679439
PO Number 04906817

Lot Number 2-154-85
Norlab Part# J1002
Cylinder Size 103 Liter
Number of Cyl 1

Date on Manufacture 6/13/2022
Expires 06/2025
Analytical Accuracy Certified

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 1.0 ppm	< 1.0 ppm
Nitrogen	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved:

David Reed
Lab Technician

Date Signed:

6/13/2022



800.962.7837
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33596 Sterling Heights
Sterling Heights, MI

Components

Air
Oxygen
T.H.C. (as Methane)
Nitrogen

Concentration (Mole %)

Zero Grade
20.9 %
< 1.0 ppm
Balance

Lot: 2-154-85

Accuracy: Certified

Part: J1002

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/13/2022

Exp. Date: 06/2025

CALIBRATION GAS





Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 75275610
PO Number 04B84126

Lot Number 4-176-81
Norlab Part# J197125PA
Cylinder Size 103 Liter
Number of Cyl 3

Date on Manufacture 6/25/2024
Expires 06/2028
Analytical Accuracy +/- 5 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:



David Reed
Lab Technician

Date Signed:

6/25/2024



800.962.7837
premier-safety.com

33596 Sterling Heights
Sterling Heights, MI

Components

Concentration (Mole %)

Methane

500 ppm
Balance

Lot: 4-080-87

Accuracy: $\pm 2\%$

Part: J1971500PA

Contents: 103 Liters-3.6 Cu. Ft., -1000 psig

MFG Date:

6/25/2024

Exp. Date:

06/2028

CALIBRATION GAS



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

± 5%

Lot #	17-6074
--------------	----------------

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
(CH₄) - 25 ppm +/- 5%
- Balance

Contents: 3.6ft³ @ 70°F and 1,000 PSIG

Exp Date

4/27/2025

Lot#: 17-6074

P/N: 23-0025

103 L

1st Kaiser Avenue, Irvine, CA 92614

757-0053 or (800) 201-8150 Fax (949) 757-0363

Methane



CONTAINS GAS UNDER PRESSURE

Read label before use

label at hand. Do not

Do not handle with

protective gloves

Use a back flow preventer

slowly Close valve when

sunlight when not in

use

Dispose of contents

DO NOT REMOVE

Federal law (49 CFR

5124). Federal law

103-23-0025

Methane 25 ppm/

Oxygen 20.9% Nitrogen

103 L

Lot #

17-6074

GOA



DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104



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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152

Order Number 73732858

PO Number 04B70733

Lot Number 3-340-62
Norlab Part# J197125PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 12/7/2023
Expires 12/2027
Analytical Accuracy +/- 5 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

Aaron Schwenken
Lab Manager

Date Signed:

12/7/2023



800.962.7837
www.premiersafety.com

33596 Sterling Road
Sterling Heights, MI 48309

Components

Methane
Air

Concentration (Mole %)

25 ppm
Balance

Lot#: 3-340-62

Accuracy: +/- 5 %

Part: J197125PA

Contents: 103Liters-3.6Cu.Ft., -1000psig

MFG Date: 12/7/2023

Exp. Date: 12/2027

CALIBRATION GAS



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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 75275610
PO Number 04B84126

Lot Number 4-080-87
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 6/25/2024
Expires 06/2028
Analytical Accuracy +/- 2 %

Customer Part# N/A


Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:


David Reed
Lab Technician

Date Signed:

6/25/2024



800.962.7837
www.premiersafety.com

33596 Sterling Pond
Sterling Heights, MI

Components

Concentration (Mole %)

Methane
Air

500 ppm
Balance

Part: 4-080-87

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date:

6/25/2024

Exp. Date:

06/2028

CALIBRATION GAS



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Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Heights MI 48312

Cust Number 07152

Order Number 69671309

PO Number 08361523

Lot Number 2-108-80
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 1

Date on Manufacture 6/10/2022
Expires 06/2025
Analytical Accuracy +/- 2 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

David Reed
Lab Technician

Date Signed:

6/10/2022



800.962.7837
www.premiersafety.com

33596 Sterling Road
Sterling Heights, MI 48306

Components

Methane
Air

Concentration (Mole %)

500 ppm
Balance

Lot#: 2-108-80

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 5/5/2022

Exp. Date: 05/2025

CALIBRATION GAS





A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Norco, Inc
Twin Falls Warehouse
203 S. Park Ave. West
Twin Falls, ID 83301

Cust Number WH012
Order Number 71846398
PO Number 04A35563

Lot Number 3-088-88
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 4/7/2023
Expires 04/2027
Analytical Accuracy +/- 2 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

Jeff Korn
Lab Technician

Date Signed:

4/7/2023



800.962.7837
www.premiersafety.com

33596 Sterling Road
Sterling Heights, MI

Components

Methane
Air

Concentration (Mole %)

500 ppm
Balance

Lot#: 3-088-88

Accuracy: $\pm 2\%$

Part: J1971500PA

Contents: 103 Liters-3.6 Cu. Ft., -1000 psig

MFG Date:

4/7/2023

Exp. Date:

04/2027

CALIBRATION GAS



A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152

Order Number 73732858

PO Number 04B70733

Lot Number 3-340-61
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 12/7/2023
Expires 12/2027
Analytical Accuracy +/- 2 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

Aaron Schwenken
Lab Manager

Date Signed:

12/7/2023

**PREMIER
SAFETY**

800.962.7837
www.premiersafety.com

33496 Sterling
Sterling Road

Components

Methane
Air

Concentration (Methane)

500 ppm
Balance

Lot#: 3-340-61

Accuracy: $\pm 2\%$

Part#: J1971500PA

Contents: 103 Liters-3.6 Cu.Ft., -1000psig

MFG Date: 12/7/03

Exp. Date: 12/03

CALIBRATION GAS



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

June 15, 2024

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

**Re: Second Quarter 2024 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 Second Quarter 2024 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_v) 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_v (areas of concern) or 500 ppm_v (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_v 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)(3).

Grids with results greater than 25 ppm_v were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm_v 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_v. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm_v 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_v 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_v must be corrected and re-monitored within 10 days of the initial exceedance.
- Leaks at or above 1000 ppm_v must be corrected and re-monitored within 7 days of the initial exceedance.

SECOND QUARTER 2024 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Second Quarter 2024.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on April 22, 2024, 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_v

There were three (3) exceedance locations of 500 ppm_v as methane detected on April 22, 2024. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (April 23, 2024).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on April 23, 2024. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on May 16, 2024. All locations were observed at less than 500 ppm_v.

Readings between 200 ppm_v and 499 ppm_v (Initial and Re-monitored)

There were no readings between 200 ppm_v and 499 ppm_v as methane detected during the initial monitoring event April 22, 2024. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm_v but below 500 ppm_v are required to be recorded.

Integrated Surface Emissions Monitoring Results

The Integrated surface sampling (ISS) was performed on April 23, 2024, accordance with the ACO and requirements outlined in CCR Title 17 §95469.

Initial Monitoring Event Exceedances of 25 ppm_v

There were no grids with exceedances of 25 ppm_v as methane detected during monitoring on April 23, 2024.

The average methane concentration of each grid was recorded during the monitoring event per applicable requirements. See Attachment B, Integrated SEM 25 ppm_v 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 April 22, 2024. No leaks greater than 500 ppm_v were identified. 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. Measurable precipitation was seen during 30-day re-monitoring event. A repeat 30-day re-monitoring was conducted in the following week when no measurable precipitation was seen to confirm the results. Any conflicts with precipitation requirements are discussed in the results section of this document.

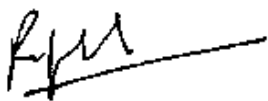
EQUIPMENT CALIBRATION

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_v in air for integrated sample analyses and 500 ppm_v 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

- 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

2024 QUARTER: 2

PERFORMED BY: RES

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O1	72	4/22/2024	800	Black Pipe
O2	62	4/22/2024	850	Black Pipe
O3	57	4/22/2024	650	Sump1
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)

2024 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: WM-Tino Robles

Wind Direction: S

Wind Direction: W

LANDFILL NAME: Guadalupe Recycling & Disposal Facility

Wind Speed: 6

Wind Speed: 3

											Comments_Wells
Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			
Flag/Grid	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	
O1	4/22/2024	800	4/23/2024	Added Water, Dirt and Compact Dirt	4/23/2024	35		5/16/2024	29		
O2	4/22/2024	850	4/23/2024	Added Dirt and Compact Dirt	4/23/2024	54		5/16/2024	22		
O3	4/22/2024	650	4/23/2024	Added Water, Dirt and Compact Dirt	4/23/2024	10		5/16/2024	7		

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

2024 QUARTER: 2

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-Wells
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	
72	4/22/2024	800	4/23/2024	35					Black Pipe
62	4/22/2024	850	4/23/2024	54					Black Pipe
57	4/22/2024	650	4/23/2024	10					Sump1

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

2024 QUARTER: 2

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					

**Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)**

2024 QUARTER: Q2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: Guadalupe

Wind Direction: S

Wind Speed: 6

Wind Direction: W

Wind Speed: 3

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	WELL
O1	4/22/2024	800ppm	4/23/2024	Added Water, Dirt and Compact Dirt	4/23/2024	35		5/16/2024	29		Black Pipe
O2	4/22/2024	850ppm	4/23/2024	Added Dirt and Compact Dirt	4/23/2024	54		5/16/2024	22		Black Pipe
O3	4/22/2024	650ppm	4/23/2024	Added Water, Dirt and Compact Dirt	4/23/2024	10		5/16/2024	7		Sump1

Site: 6450974.07E

383

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEONARDO
MIGUEL ESTACOA
JERRY MORA

tyler Anderson
ANTHONY CANALES

Cal. Gas Exp. Date: 11-10-24

Date: 4-22-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 78 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LW	1145	1200	21	1	3	10	
2	ME	1145	1200	34	1	3	10	
3	JM	1145	1200	26	1	3	10	
4	TA	1145	1200	17	1	3	10	
5	AC	1145	1200	25	1	3	10	
6	LW	1200	1215	44	4	5	10	
7	ME	1200	1215	68	4	5	10	
8	JM	1200	1215	20	4	5	10	
9	TA	1200	1215	31	4	5	10	
10	AC	1200	1215	75	4	5	10	
11	LW	1215	1230	15	4	5	10	
12	ME	1215	1230	41	4	5	10	
13	JM	1215	1230	27	4	5	10	
15	TA	1215	1230	58	4	5	10	
16	AC	1215	1230	32	4	5	10	
19	LW	1230	1245	20	4	7	10	
20	ME	1230	1245	29	4	7	10	
21	JM	1230	1245	40	4	7	10	
24	TA	1230	1245	17	4	7	10	
25	AC	1230	1245	30	4	7	10	
26	LW	1245	1300	37	5	6	10	
29	ME	1245	1300	26	5	6	10	
30	JM	1245	1300	24	5	6	10	
31	TA	1245	1300	36	5	6	10	
35	AC	1245	1300	34	5	6	10	
36	LW	1300	1315	65	4	6	10	
37	ME	1300	1315	42	4	6	10	
41	JM	1300	1315	30	4	6	10	
42	TA	1300	1315	45	4	6	10	
43	AC	1300	1315	59	4	6	10	

Attach Calibration Sheet

Attach site map showing grid ID

Page 1 of 3

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WAD 4/22/24 ADONIS
MICHAEL ESTACOA ANTHONY CANOLES
JERRY MANOZ Cal. Gas Exp. Date: 11-10-24

Date: 4-22-24 Instrument Used: LVA 1000 Grid Spacing: 2.5

Temperature: 80 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
47	LW	1315	1330	25	5	6	10	
48	ME	1315	1330	31	5	6	10	
49	JM	1315	1330	65	5	6	10	
50	TA	1315	1330	34	5	6	10	
54	AL	1315	1330	77	5	6	10	
55	LW	1330	1345	42	4	5	10	
59	ME	1330	1345	54	4	5	10	
60	JM	1330	1345	39	4	5	10	
61	TA	1330	1345	82	4	5	10	
64	AC	1330	1345	76	4	5	10	
65	LW	1345	1400	45	3	5	10	
66	ME	1345	1400	55	3	5	10	
67	JM	1345	1400	119	3	5	10	
69	TA	1345	1400	60	3	5	10	
70	AL	1345	1400	74	3	5	10	
72	LW	1400	1415	59	4	5	10	
73	ME	1400	1415	43	4	5	10	
74	JM	1400	1415	48	4	5	10	
77	TA	1400	1415	56	4	5	10	
78	AC	1400	1415	42	4	5	10	
79	LW	1415	1430	51	3	5	10	
82	ME	1415	1430	78	3	5	10	
83	JM	1415	1430	60	3	5	10	
86	TA	1415	1430	94	3	5	10	
87	AL	1415	1430	31	3	5	10	
88	LW	1430	1445	107	4	5	10	
89	ME	1430	1445	49	4	5	10	
90	JM	1430	1445	66	4	5	10	
91	TA	1430	1445	74	4	5	10	
92	AC	1430	1445	107	4	5	10	

Attach Calibration Sheet

Attach site map showing grid ID

Page 2 of 3

GUADALUPE LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISWADT _____

 _____ Cal. Gas Exp. Date: _____

Date: 4-22-24 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	
71								Aut. vent hoses ↓
75								
76								
80								
81								
84								
85								
14								
17								
18								steep slopes ↓
22								
27								
32								
38								
44								
51								
56								
23								no waste in place ↓
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								↓
58								
62								

Attach Calibration Sheet
 Attach site map showing grid ID

Personnel: Leighnor

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

[illegible]

Page 2 of 2

GUADALUPE LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2004
Quarter: 2ND

IME Date	Time	IME Location ID	IME Concentration (ppm)
4-22-24	1003	GDLC0188	51
	1107	GDLC0189	20
	1118	GDLC0190	36
	1008	GDLC0191	24
	1055	GDLC0192	21
	1035	GDLC0193	27
	1028	GDLC0196	15
	1120	GDLC0197	27
	1117	GDLC0232	40
	1020	GDLC0233	25
	1054	GDLC0234	18
	1100	GDLC0235	15
	1014	GDLC0236	34
	1118	GDLC0237	51
	1110	GDLC0238	16
	1030	GDLC0239	72
	1045	GDLC0240	18
	1007	GDLC0241	14
	1116	GDLC0242	17
	1130	GDLC0243	12
	1000	GDLC0244	56
	1035	GUAD0062	71
	1024	GUAD0065	34
	1015	GUAD0066	51
	1117	GUAD0081	30
	1025	GUAD0082	59
	1034	GUAD0112	24
	1107	GUAD0114	27
	1004	GUAD0122	45
	1109	GUAD0124	30
	1036	GUAD0129	66
	1058	GUAD0131	54
	1106	GUAD0134	35
	1110	GUAD0135	27
	1027	GUAD0138	19
	1137	GUAD0142	26
	1103	GUAD0146	14
	1121	GUAD0147	56
	1045	GUAD0151	39
	1030	GUAD0152	27

GUADALUPE LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

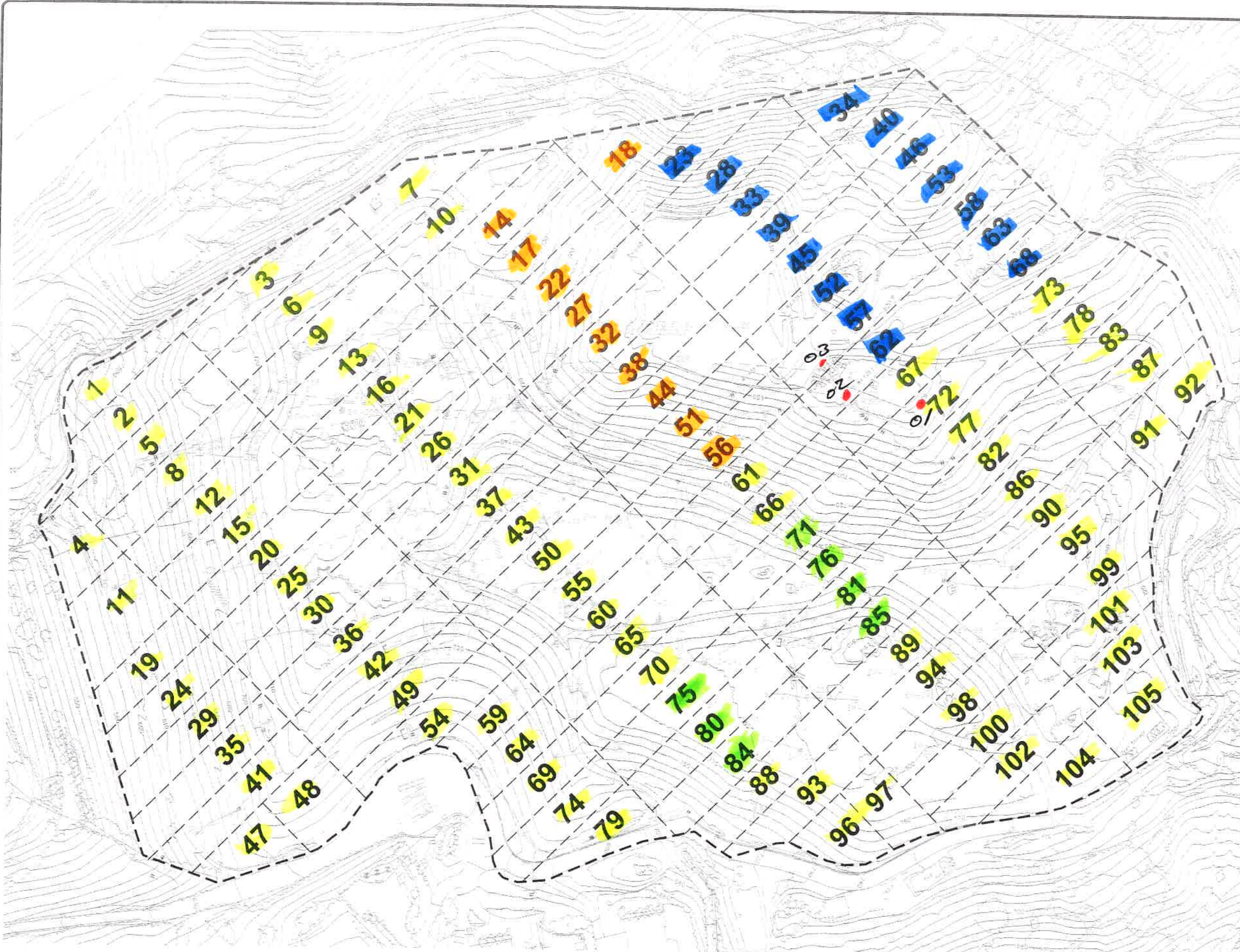
Year: 2024
Quarter: 2NN

IME Date	Time	IME Location ID	IME Concentration (ppm)
	1018	GUAD0154	30
	1100	GUAD0161	24
	1045	GUAD0162	26
	1021	GUAD0172	18
	1003	GUAD0173	49
	1108	GUAD0176	52
	1042	GUAD0177	18
	1009	GUAD0179	55
	1018	GUAD0180	21
	1052	GUAD0181	34
	1127	GUAD0183	70
	1004	GUAD0184	14
	1039	GUAD0185	35
	1130	GUAD0186	17
	1020	GUAD0187	24
	1015	GUAD0198	38
	1130	GUAD0199	30
	1012	GUAD0200	27
	1118	GUAD0201	51
	1017	GUAD0202	34
	1040	GUAD0203	55
	1120	GUAD0204	32
	1039	GUAD0205	35
	1107	GUAD0207	18
	1021	GUAD0208	21
	1106	GUAD0209	43
	1115	GUAD0211	16
	1035	GUAD0213	38
	1020	GUAD0214	20
	1034	GUAD0215	27
	1055	GUAD0216	45
	1032	GUAD0217	66
	1109	GUAD0218	32
	1040	GUAD0219	50
	1135	GUAD0220	48
	1012	GUAD0221	36
	1116	GUAD0222	58
	1101	GUAD0223	34
	1020	GUAD0224	18
	1015	GUAD0225	24

Year: 2024
Quarter: 2nd

Page 3

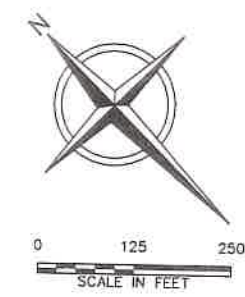
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LEGEND

- 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: JANUARY 26, 2023. 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.
 9. 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
 10. SUPPLEMENTAL 2023 AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON NOVEMBER 16, 2023.

Inspector Leboys 4-22-24

- GRIDS Abandoned
- Active Wetlands
- steep slopes
- nowaste in place
- 500+ ppm



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/28/23					
DATE OF ISSUE			DRAWN BY		CHECKED BY	
			DESIGNED BY		APPROVED BY	
			DAA		AMN	
			CME		PJS	



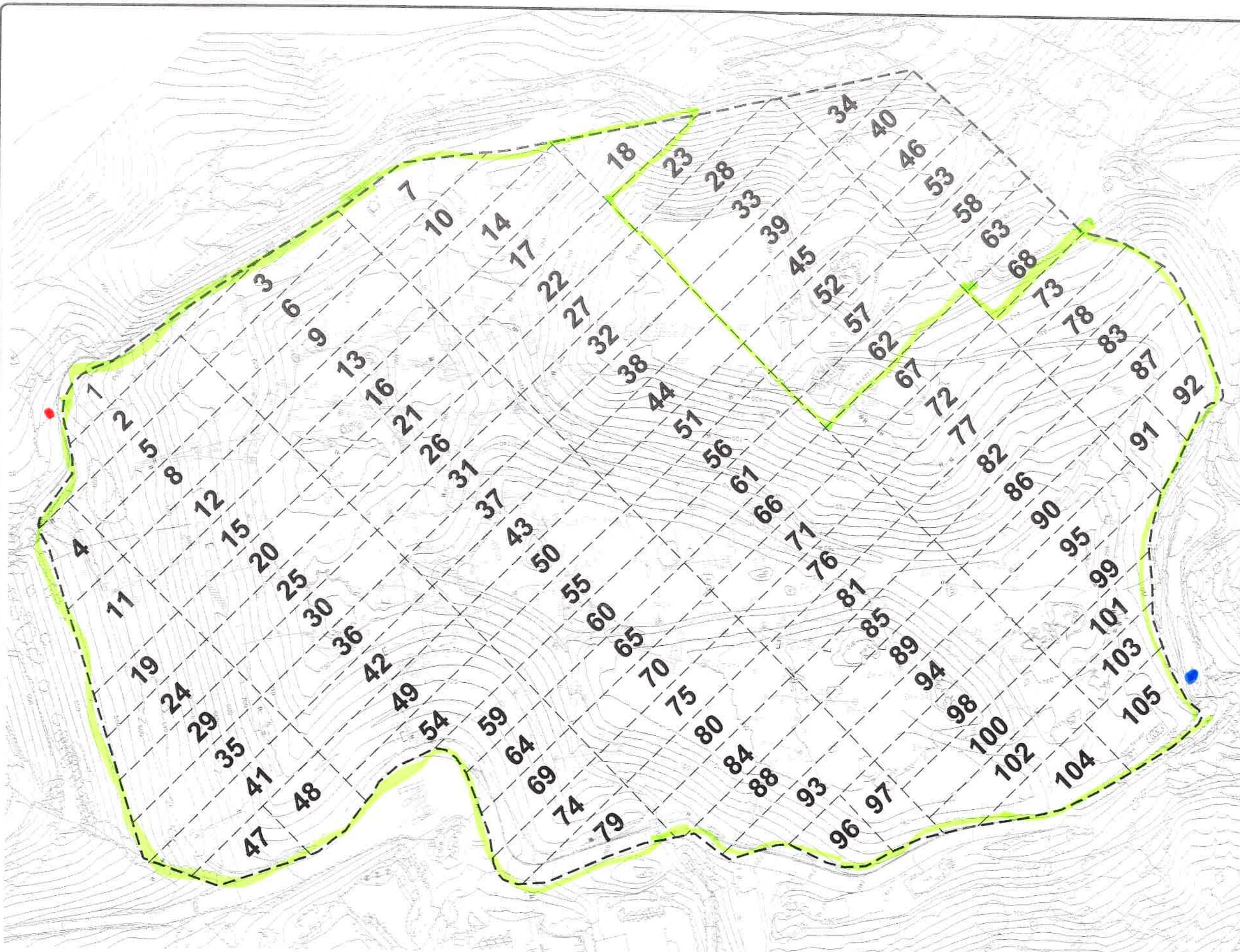
GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 GCCS IMPROVEMENTS

SEM GRID MAP

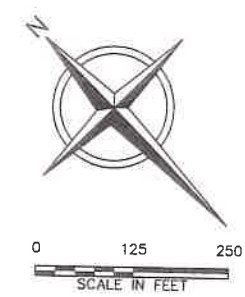
DRAFT RECORD DRAWINGS

SHEET NO.
3
PROJECT NO.
230054

File: \\msc\apps\618\PROJECTS\Guadalupe\230054\Guadalupe_2023 AS-BUILT.dwg User: DWG:MAZ201 Rev: 2023 - 11/28/23



- 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 BUREN, WA. DATE OF PHOTOGRAPHY: JANUARY 26, 2023. DATUM: HORIZONTAL - NAD 83, VERTICAL - NAD 88.
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 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.
 9. 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
 10. SUPPLEMENTAL 2023 AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON NOVEMBER 16, 2023.

2nd & 4th N/S
PERIMETER SWEEP
UPWIND
DOWNWIND



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/28/23					
DATE OF ISSUE			DRAWN BY		CHECKED BY	
			DESIGNED BY		APPROVED BY	
			DAM		AMN	
			CME		PJS	



GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO.
3
PROJECT NO.
230054

DRAFT RECORD DRAWINGS

Attachment B

Integrated Surface Emission Monitoring Event Records

Table B.1
Integrated Landfill Surface Monitoring
Exceedances and Monitoring Log

2024 QUARTER: 2

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: LEONARDO tyler ANDERSON
Miguel Botana Anthony Cuevas
Jenny Munoz

Cal. Gas Exp. Date: 11-10-24

Date: 4-23-24 Instrument Used: FLA1000 Grid Spacing: 25'

Temperature: 51 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
1	LU	0600	0625	3.75	1	2	7	
2	ME	0610	0625	4.10	1	2	7	
3	JA	0610	0625	3.50	1	2	7	
4	TA	0600	0625	5.11	1	2	7	
5	AC	0600	0625	4.66	1	2	7	
6	LU	0625	0650	5.39	1	2	5	
7	ME	0625	0650	4.25	1	2	5	
8	JA	0625	0650	5.50	1	2	5	
9	TA	0625	0650	6.13	1	2	5	
10	AC	0625	0650	5.82	1	2	5	
11	LU	0650	0715	6.19	1	2	6	
12	ME	0650	0715	5.77	1	2	6	
13	JA	0650	0715	5.10	1	2	6	
15	TA	0650	0715	4.60	1	2	6	
16	AC	0650	0715	5.84	1	2	6	
19	LU	0715	0740	4.77	1	2	4	
20	ME	0715	0740	6.21	1	2	4	
21	JA	0715	0740	6.85	1	2	4	
24	TA	0715	0740	5.49	1	2	4	
25	AC	0715	0740	4.80	1	2	4	
26	LU	0740	0805	5.13	2	3	2	
29	ME	0740	0805	5.62	2	3	2	
30	JA	0740	0805	6.07	2	3	2	
31	TA	0740	0805	5.50	2	3	2	
35	AC	0740	0805	4.21	2	3	2	
36	LU	0805	0830	5.80	0	1	4	
37	ME	0805	0830	4.75	0	1	4	
41	JA	0805	0830	5.30	0	1	4	
42	TA	0805	0830	5.55	0	1	4	
43	AC	0805	0830	6.07	0	1	4	

Attach Calibration Sheet
 Attach site map showing grid ID

Page 1 of 3

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LBishw906
Michael Estrada
Jenny Munoz

tylencuperson
Anthony Cervelas

Cal. Gas Exp. Date: 11-10-24

Date: 4-23-24 Instrument Used: LVA1000 Grid Spacing: 25'

Temperature: 60 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
47	LV	0830	0855	4.50	1	2	16	
48	ME	0830	0855	5.07	1	2	16	
49	JM	0830	0855	5.13	1	2	16	
50	TA	0830	0855	6.27	1	2	16	
54	AC	0830	0855	6.54	1	2	16	
55	LV	0855	0920	5.92	1	1	1	
59	ME	0855	0920	5.38	1	1	1	
60	JM	0855	0920	6.95	1	1	1	
61	TA	0855	0920	7.82	1	1	1	
64	AC	0855	0920	6.45	1	1	1	
65	LV	0920	0945	7.21	1	2	16	
66	ME	0920	0945	6.07	1	2	16	
67	JM	0920	0945	9.40	1	2	16	
69	TA	0920	0945	7.18	1	2	16	
70	AC	0920	0945	9.52	1	2	16	
72	LV	0945	1010	7.50	1	2	15	
73	ME	0945	1010	6.22	1	2	15	
74	JM	0945	1010	6.95	1	2	15	
77	TA	0945	1010	6.45	1	2	15	
78	AC	0945	1010	6.87	1	2	15	
79	LV	1010	1035	7.19	1	2	16	
82	ME	1010	1035	8.47	1	2	16	
83	JM	1010	1035	6.90	1	2	16	
86	TA	1010	1035	7.53	1	2	16	
87	AC	1010	1035	6.82	1	2	16	
88	LV	1035	1100	9.47	1	2	16	
89	ME	1035	1100	7.11	1	2	16	
90	JM	1035	1100	8.46	1	2	16	
91	TA	1035	1100	6.20	1	2	16	
92	AC	1035	1100	5.58	1	2	16	

Attach Calibration Sheet

Attach site map showing grid ID

Page 2 of 3

Personnel: Leigh Anne Lyb Anderson
Nicole Estroff Anthony Cangelosi
Jenny Muraw Cal. Gas Exp. Date: 11-10-24

Temperature: 64 Precip: 0 Upwind BG: 2.6 Downwind BG: 2.2

Attach Calibration Sheet
Attach site map showing grid ID

GUADALUPE LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHMAN

Cal. Gas Exp. Date: _____

Date: 4-23-24 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	
71								Active trash
75								
76								
80								
81								
84								Steps/ropes
85								
14								
18								
17								
22								no more in place
27								
32								
38								
44								
51								
56								
23								
28								
33								
34								
39								
40								
45								
46								
52								
53								
57								
58								
62								

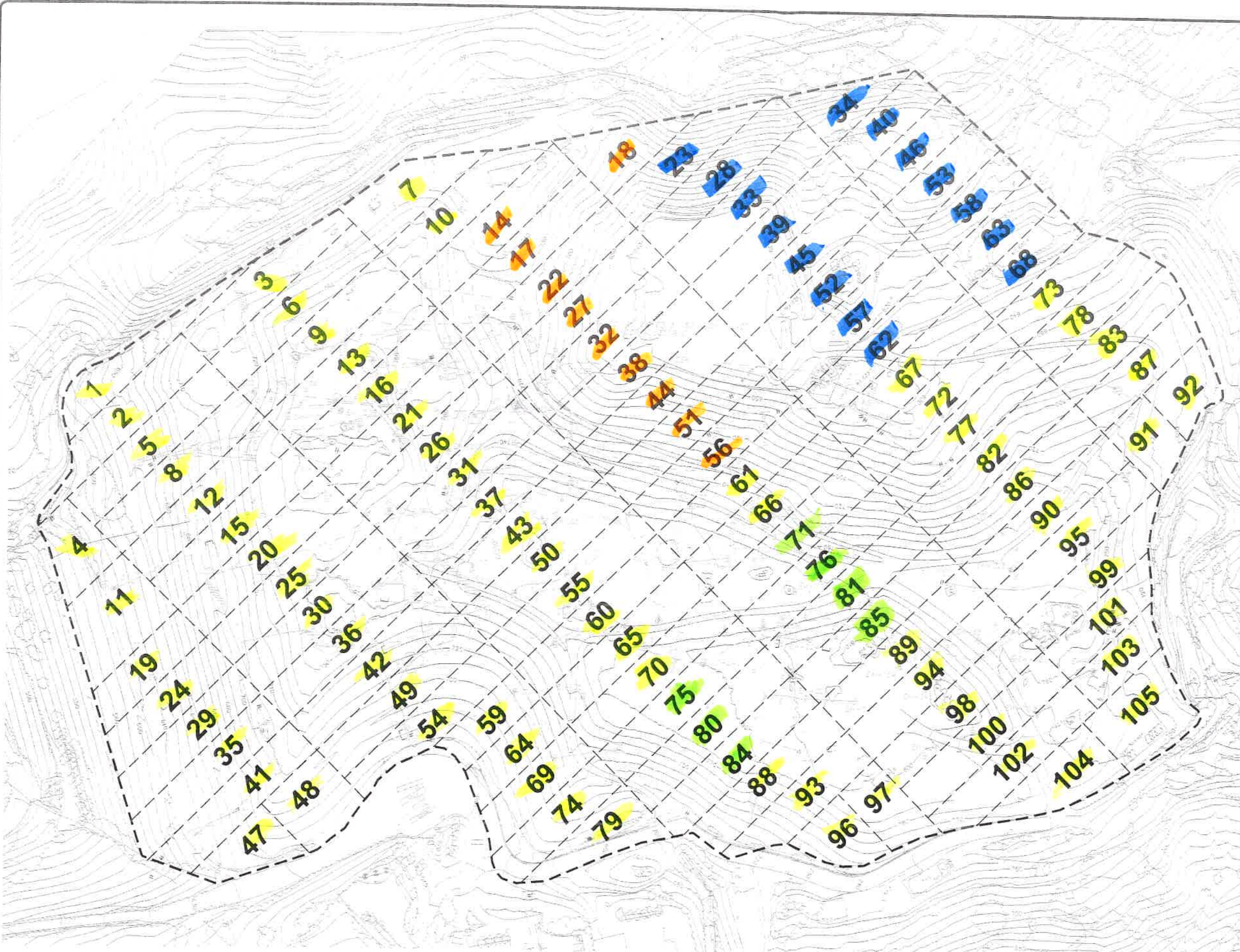
Attach Calibration Sheet
Attach site map showing grid ID

Personnel: LEIGH WATSON

Temperature: _____ Precip: _____ Upwind BG: _____ Downwind BG: _____

Page 2 of 2

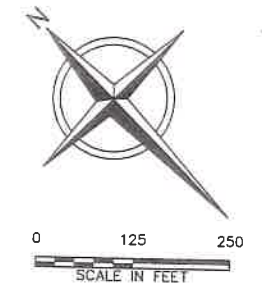
The \\utms\apps\GIS\PROJECTS\GUADALUPE\230054 - 2023 AS-BUILT UPDATE\Project Drawings\230054 - GUADALUPE 2023 AS-BUILT UPDATE.dwg, Layout: S3, User: BVA64424W, Nov 28, 2023 - 11:26am



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 BUREN, WA. DATE OF PHOTOGRAPHY: JANUARY 26, 2023. 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.
 9. 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
 10. SUPPLEMENTAL 2023 AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON NOVEMBER 16, 2023.

INTERESTED 4-23-24

- Grids Monitored
- Active - Fresh
- Steep Slopes
- No Waste in place



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/28/23	DATE OF ISSUE				
		DRAWN BY	DAA			
		DESIGNED BY	CME			
		CHECKED BY			AMN	
		APPROVED BY			PJS	



DRAFT RECORD DRAWINGS

GUADALUPE RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO.
3
PROJECT NO.
230054

Attachment C

Component Leak Monitoring Event Records

Table C.1
AB-32 Component Leak Monitoring
Summary of Component Leaks Greater than 500 ppmv

2024 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES-WM

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
Flare Station A-9	4.22.2024	ND	RES	NA	NA	NA	NA	NA
Flare Station A-17	4.22.2024	ND	RES	NA	NA	NA	NA	NA

ND= No Exceedances

Table C.2
BAAQMD Component Leak Monitoring
Summary of Component Leaks Greater than 1,000 ppmv

2024 QUARTER: 2

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
Flare Station A-9	4.22.2024	ND	RES	NA	NA	NA	NA	NA
Flare Station A-17	4.22.2024	ND	RES	NA	NA	NA	NA	NA

LANDFILL NAME: Glacoe/Ladob-

INSTRUMENT FID

MAKE: Thermo Environr

MODEL: TVA 1000

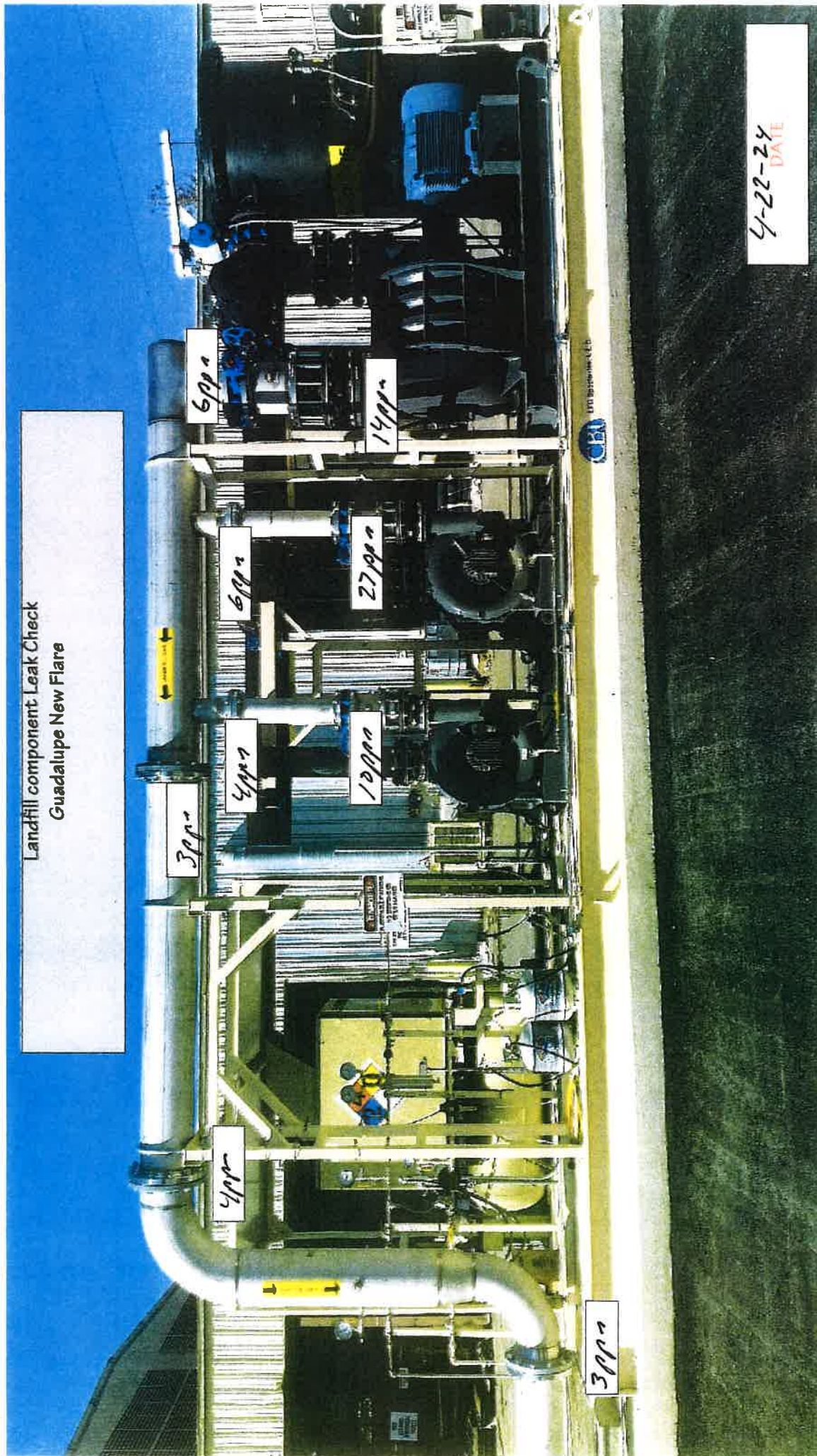
S/N: 1036346723

DATE OF SAMPLING: 4-22-24

TECHNICIAN: / *WIC / WAF*

[illegible]

Landfill component Leak Check
Guadalupe New Flare



4-22-24
DATE

Landfill component Leak Check
Guadalupe New Flare



4-22-24
DATE

Landfill component Leak Check
Guadalupe New Flare



4-22-24
DATE

Landfill component Leak Check
Guadalupe

3ppm

3ppm

2ppm

2ppm

3ppm

4-22-24



Landfill component Leak Check
Guadalupe

2ppm

2ppm

3ppm

4-22-24
DATE

Landfill component Leak Check
Guadalupe

3pp~

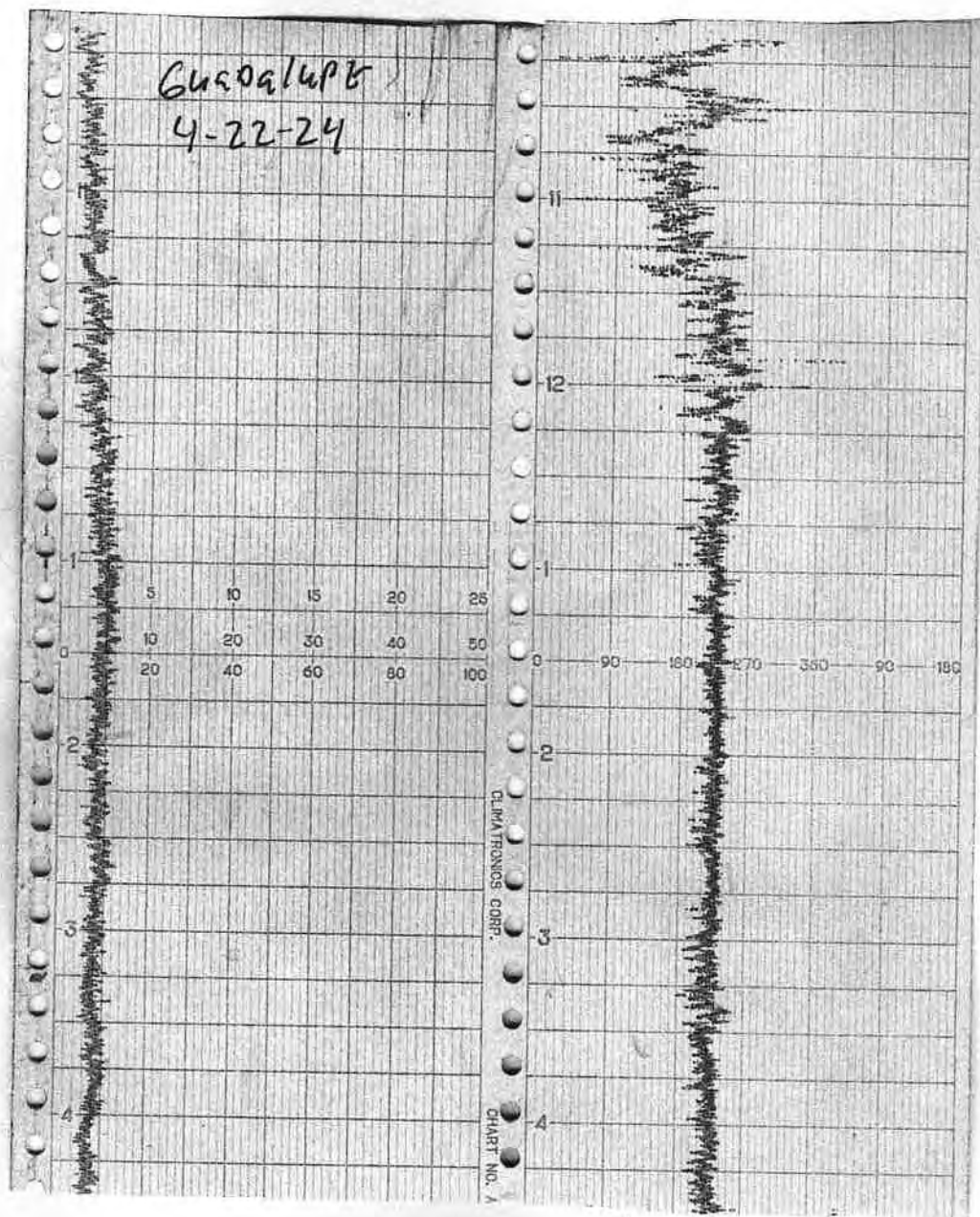
2pp~

4-22-24
DATE

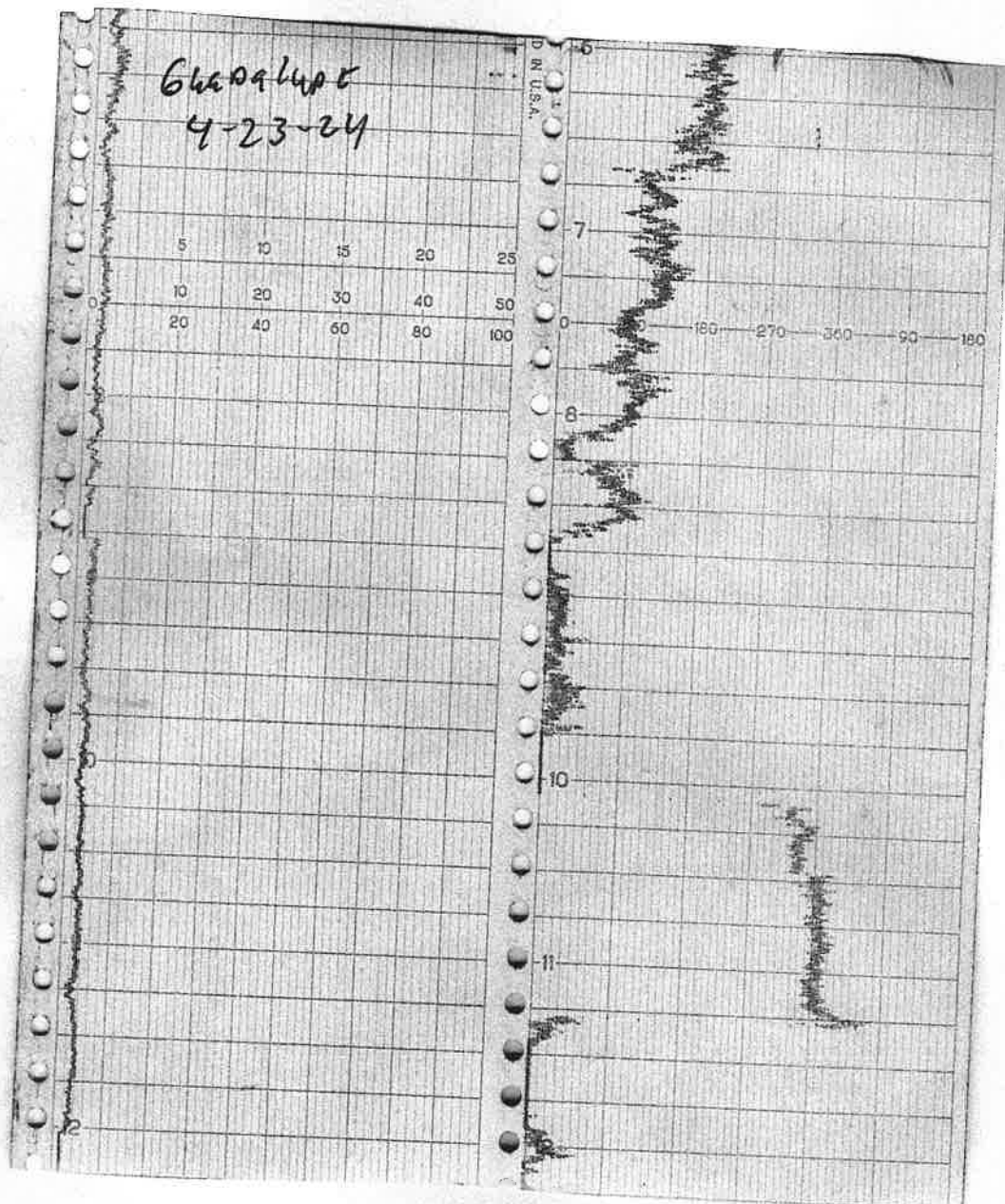


Attachment D
Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL





16-POINT WIND DIRECTION INDEX				
NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
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 - INTEGRATED

LANDFILL NAME: Chapel Hill INSTRUMENT MAKE Hera
MODEL 6VA1000 EQUIPMENT #: 10 SERIAL #: 1036346723
MONITORING DATE: 4-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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>✓</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>✓</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>✓</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>✓</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>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</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>1.3</u> #DIV/0! Must be less than 10%

Performed By: Leigh Woot Date/Time: 4-23-24-0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Gay Delap INSTRUMENT MAKE: HANNA
MODEL: LVA 1000 EQUIPMENT #: 11 SERIAL #: 1036346772
MONITORING DATE: 4-23-24 TIME: 0850

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>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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>0.11</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.06</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.03</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: NIGHTL BSTRADN Date/Time: 4-23-24-0850

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME 660951478 INSTRUMENT MAKE: Fluor
MODEL: LVA1000 EQUIPMENT #: 12 SERIAL #: 1026246741
MONITORING DATE: 4-23-24 TIME 0550

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: (Upwind + Downwind) 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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>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>6.17</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.09</u> ppm	<u>24</u> ppm	<u>1</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>4.0</u> #DIV/0! Must be less than 10%

Performed By: JERRY ALVIZ Date/Time: 4-23-24-0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: Gardalup INSTRUMENT MAKE: Hannu
 MODEL: LVA1000 EQUIPMENT #: 13 SERIAL #: 1102746175
 MONITORING DATE: 4-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.06</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>1.3</u> #DIV/0! Must be less than 10%

Performed By: ky/kenardson Date/Time: 4-23-24 - 0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: Glendale INSTRUMENT MAKE: Hann
 MODEL: RA 1000 EQUIPMENT #: 16 SERIAL #: 1102746776
 MONITORING DATE: 4-23-24 TIME: 0550

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: (Upwind + Downwind) 2
<u>2.6</u> ppm	<u>2.2</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 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>0.10</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.07</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.04</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>2.6</u> #DIV/0! Must be less than 10%

Performed By: Anthony Canelas Date/Time: 4-23-24-0550

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Gardner INSTRUMENT MAKE: FH
 MODEL: FA1000 EQUIPMENT #: 10 SERIAL #: 1036346773
 MONITORING DATE: 4-22-24 TIME: 1000

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.6</u> ppm	<u>2.2</u> ppm

Background Value = 2.2 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>450</u> ppm	<u>405</u> ppm	<u>0</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>0</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>0.15</u> ppm	<u>450</u> ppm	<u>10</u>
#2	<u>0.09</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.07</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>0.66</u> #DIV/0! Must be less than 10%

Performed By: LOIS HANCOCK Date/Time: 4-22-24 1000

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Grand Rapids INSTRUMENT MAKE Hera no
MODEL: HA1000 EQUIPMENT # 11 SERIAL #: 1036346772
MONITORING DATE 4-22-24 TIME 1600

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.6</u> ppm	<u>2.2</u> ppm

Background Value = 2.2 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>0.10</u> ppm	<u>506</u> ppm	<u>6</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>0.40</u> #DIV/0! Must be less than 10%

Performed By Niguel Estrella Date/Time 4-22-24 - 1000

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Garberville INSTRUMENT MAKE: Hydrom
MODEL: FA1000 EQUIPMENT # 12 SERIAL #: 1036246741
MONITORING DATE 4-22-24 TIME 1000

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.6</u> ppm	<u>2.2</u> ppm

Background Value = 2.2 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>489</u> ppm	<u>439</u> ppm	<u>7</u>
#2	<u>502</u> ppm	<u>452</u> ppm	<u>7</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>7</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>7</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>489</u> ppm	<u>11</u>
#2	<u>0.09</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>0.86</u> #DIV/0! Must be less than 10%

Performed By: JERRY MENDOZA Date/Time: 4-22-24-1000

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME 64205490 INSTRUMENT MAKE Hydron
MODEL: HA1000 EQUIPMENT #: 13 SERIAL #: 1102746775
MONITORING DATE 4-22-24 TIME: 1000

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.6</u> ppm	<u>2.2</u> ppm

Background Value = 2.2 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>455</u> ppm	<u>455</u> ppm	<u>5</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>✓</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>0.21</u> ppm	<u>455</u> ppm	<u>5</u>
#2	<u>0.14</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.07</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>0.30</u> #DIV/0! Must be less than 10%

Performed By Hydron Anderson Date/Time 4-22-24-1000

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Grapsbury INSTRUMENT MAKE Hann
MODEL: LA1000 EQUIPMENT # 16 SERIAL #: 1102746776
MONITORING DATE 4-22-24 TIME 1000

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: (Upwind + Downwind) 2
<u>1.8</u> ppm	<u>2.6</u> ppm	<u>2.2</u> ppm

Background Value = 2.2 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>0.16</u> ppm	<u>500</u> ppm	<u>0</u>
#2	<u>0.11</u> ppm	<u>500</u> ppm	<u>0</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>0.46</u> #DIV/0! Must be less than 10%

Performed By: Anthony Date/Time: 4-22-24-1000

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM MM

Date: 4-6-24 Time: 0845

Model # 7CA-1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</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 ₂ 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>4-6-24</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>5</u>		
		Average <u>5.6</u>		
		Equal to or less than 30 seconds? <u>Y</u> N		
		Instrument calibrated to <u>City</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: Jim M

Date: 4-6-24 Time: 0900

Model # 700 1000

Serial # #11 1036346274

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</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 ₂ 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>4-6-24</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>5</u>	
		2.	<u>5</u>	
		3.	<u>5</u>	
		Average	<u>5.0</u>	
		Equal to or less than 30 seconds?		<u>Y</u> N
		Instrument calibrated to <u>C144</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: YH YH

Date: 4-6-24 Time: 0915

Model # YUA 1000

Serial # #12 103624674

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</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 ₂ 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>4-6-24</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>CL44</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: *Jim M*

Date: 4-6-29 Time: 0930

Model # TCA 1000

Serial # #13 1102746775

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</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 ₂ 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>4-6-29</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>CH₄</u> gas.		

Comments: _____

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 4-6-24 Time: 1015

Model # 701A 1000

Serial # #16 1102746716

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</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 ₂ supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	<div style="display: flex; justify-content: space-between;"> Calibration Gas, ppm <u>500</u> </div> <div style="display: flex; justify-content: space-between;"> 90% of Calibration Gas, ppm <u>450</u> </div> <div style="display: flex; justify-content: space-between;"> Time required to attain 90% of Cal Gas ppm </div> <div style="display: flex; justify-content: space-between;"> 1. <u>5</u> </div> <div style="display: flex; justify-content: space-between;"> 2. <u>6</u> </div> <div style="display: flex; justify-content: space-between;"> 3. <u>6</u> </div> <div style="display: flex; justify-content: space-between;"> Average <u>5.6</u> </div>		
Date of last factory calibration	<u>4-6-24</u>	<div style="display: flex; justify-content: space-between;"> Equal to or less than 30 seconds? <u>Y</u> N </div>		
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	<div style="display: flex; justify-content: space-between;"> Instrument calibrated to <u>clay</u> gas. </div>		

Comments: _____



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036346773

TECHNICIAN: M. M. DATE: 4-6-29

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	0.071	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #11

SERIAL NUMBER: 1036346774

TECHNICIAN: MM DATE: 4-6-29

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	10,001	+/- 2500
< 1	ZERO GAS	0.069	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 12

SERIAL NUMBER: 103624674

TECHNICIAN: MM

DATE: 4-6-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	499	+/- 125
10000	10000	101003	+/- 2500
< 1	ZERO GAS	0.03	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #13

SERIAL NUMBER: 1102246225

TECHNICIAN: MM

DATE: 4-6-29

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	0.68	< 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.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #16

SERIAL NUMBER: 1102746776

TECHNICIAN: Mc My

DATE: 4-6-24

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	10,111	+/- 2500
< 1	ZERO GAS	0.73	< 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.

Intermountain Specialty Gases

520 N. Kings Road

Nampa, ID 83687 (USA)

Phone (800) 552-5003, Fax (208) 466-9143

www.isgases.com



"Your calibration gas manufacturer since 1992"

CERTIFICATE OF ANALYSIS

Composition

Certification

Analytical Accuracy (+/-)

Oxygen

20.9 %

2%

Nitrogen

Balance UHP

Lot # 20-7421

Mfg. Date: 5/20/2020

Expiration Date:

Transfill Date: see cylinder

Parent Cylinder ID
Number: NY02268

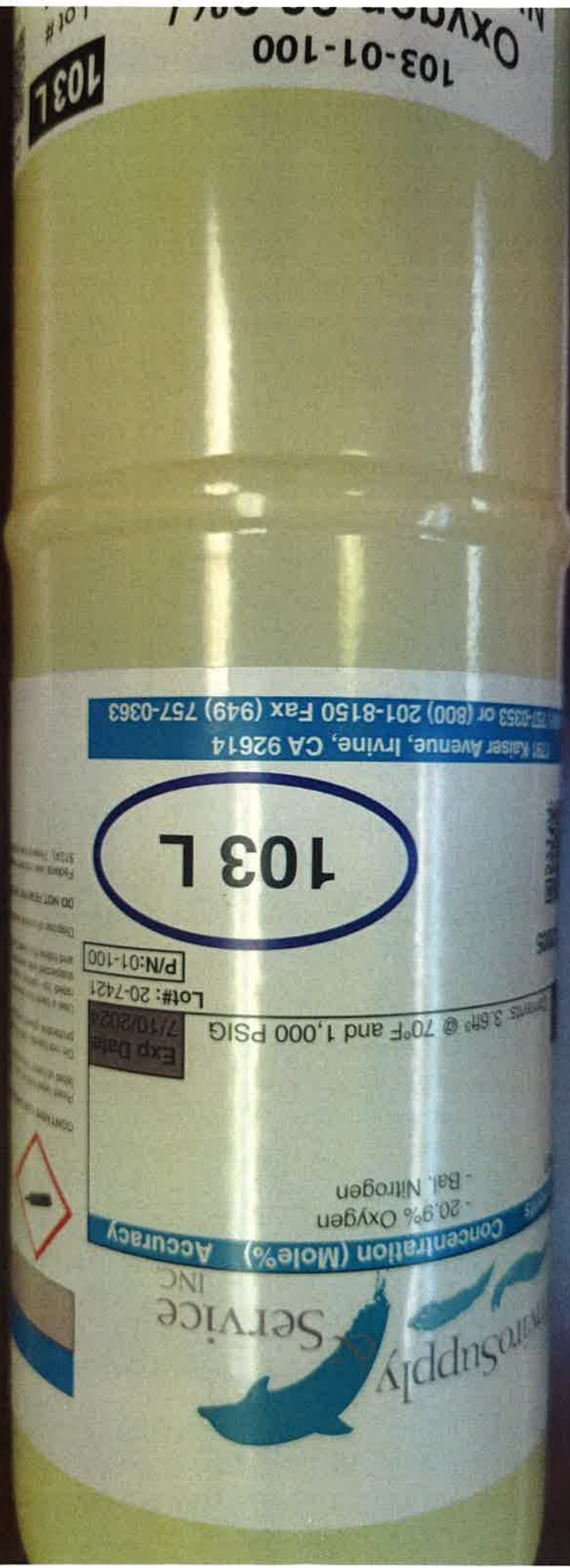
Method of Preparation:

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: 5/20/2020



103 L

103-01-100

Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363

103 L

P/N: 01-100

Lot#: 20-7421

Exp Date
7/10/2024

Contents: 3.6H₂ @ 70°F and 1,000 PSIG



Concentration (Mole%) Accuracy
20.9% Oxygen - Bal. Nitrogen

Nitro Supply & Service INC.



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

± 5%

Lot #	17-6074
--------------	----------------

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

2 of 2



INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition

Methane

Air

Certification

25 ppm

Balance

Analytical Accuracy

± 5%

Lot #	17-6074
--------------	----------------

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

EnviroSupply Service INC.

Concentration (Mole%) Accuracy
(CH₄) - 25 ppm +/- 5%
- Balance

Contents: 3.6ft³ @ 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
714-353-0353 or (800) 201-8150 Fax (949) 757-0363

Methane



CONTAINS GAS

Read label before use

label at time of use

Do not handle with bare hands

Use a back flow preventer

slowly Close valve at time of use

Dispose of contents properly

DO NOT REMOVE LABEL

Federal law prohibits sale of this product without this label (49 CFR 171.15)

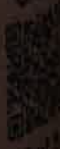
103-23-0025
Methane 25 ppm/
Oxygen 20.9% / Nitrogen

103 L

Lot #

17-6074

COA



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



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

70°F and 1,000 PSIG

Exp Date

7/10/2024

Lot#: 20-7497

P/N:23-0500

103 L

Avenue, Irvine, CA 92614

(800) 201-8150 Fax (949) 757-0363

Methane (0.00%)



WAP

CONTAINS GAS UNDER PRESSURE

Read label before use. Keep out of reach of children. Label at hand. Use equipment when in use.

Do not handle until all safety procedures are followed. Use protective gloves, protective clothing.

Use a back flow prevention device and open slowly. Close valve after each use. Store in sunlight when ambient temperature is above 50°F.

Dispose of content and/or container in accordance with local, state and federal regulations.

DO NOT REMOVE THIS PRODUCT LABEL

Federal law forbids transportation in motor vehicles (49 CFR 173.34). Federal law prohibits selling for use in motor vehicles.

101-23-0300

500 ppm/

20.0% Nitrogen

103 L

Lot #

20-7497

COA



4 of 4



A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Heights MI 48312

Cust Number 07152
Order Number 69671309
PO Number 08361523

Lot Number 2-108-80
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 1

Date on Manufacture 6/10/2022
Expires 06/2025
Analytical Accuracy +/- 2 %

Customer Part# N/A


Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:


David Reed
Lab Technician

Date Signed:

6/10/2022



800.962.7837
www.premiersafety.com

33596 Sterling Pond
Sterling Heights, MI 48301

Components

Methane
Air

Concentration (Mole %)

500 ppm
Balance

Lot#: 2-108-80

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft., -1000psig

MFG Date: 5/5/2022

Exp. Date: 05/2025

CALIBRATION GAS





A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Norco, Inc
Twin Falls Warehouse
203 S. Park Ave. West
Twin Falls, ID 83301

Cust Number WH012
Order Number 71846398
PO Number 04A35563

Lot Number 3-088-88
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 4/7/2023
Expires 04/2027
Analytical Accuracy +/- 2 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

Jeff Korn
Lab Technician

Date Signed:

4/7/2023



800.962.7837
www.premiersafety.com

33596 Sterling Road
Sterling Heights, MI

Components

Methane
Air

Concentration (Mole %)

500 ppm
Balance

Lot#: 3-088-88

Accuracy: $\pm 2\%$

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft., -1000psig

MFG Date: 4/7/2023

Exp. Date: 04/2027

CALIBRATION GAS



A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Heights MI 48312

Cust Number 07152
Order Number 69679439
PO Number 04906817

Lot Number 2-154-85
Norlab Part# J1002
Cylinder Size 103 Liter
Number of Cyl 1

Date on Manufacture 6/13/2022
Expires 06/2025
Analytical Accuracy Certified

Customer Part# N/A


Component	Reported Concentration	Requested Concentration
Air	Zero Grade	Zero Grade
Oxygen	20.9 %	20.9 %
T.H.C. (as Methane)	< 1.0 ppm	< 1.0 ppm
Nitrogen	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

Minor constituents tested with standards traceable to NIST by mass or comparison to SRM's (Standard Reference Materials).

NIST Traceable Numbers are available upon request.

Approved:


David Reed
Lab Technician

Date Signed:

6/13/2022



800.962.7837
www.premiersafety.com

33596 Sterling
Sterling Heights

Components	Concentration (Mole %)
Air	Zero Grade
Oxygen	20.9 %
T.H.C. (as Methane)	< 1.0 ppm
Nitrogen	Balance

Lot: 2-154-85
Accuracy: Certified
Net: J1002
Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 6/13/2022
Exp. Date: 08/2025

CALIBRATION GAS





Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152

Order Number 73732858

PO Number 04B70733

Lot Number 3-340-61
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 12/7/2023
Expires 12/2027
Analytical Accuracy +/- 2 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

Aaron Schwenken
Lab Manager

Date Signed:

12/7/2023

**PREMIER
SAFETY**

800.962.7837
www.premiersafety.com

3456 Sterling
Sterling Highway

Components

Methane
Air

Concentration (Mixture)

500 ppm
Balance

Lot#: 3-340-61

Accuracy: +/- 2 %

Part: J1971500PA

Contents: 103Liters-3.6Cu.Ft., -1000psig

MFG Date: 12/7/2001

Exp. Date: 12/2007

CALIBRATION GAS



A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152

Order Number 73732858

PO Number 04B70733

Lot Number 3-340-62
Norlab Part# J197125PA
Cylinder Size 103 Liter
Number of Cyl 5

Date on Manufacture 12/7/2023
Expires 12/2027
Analytical Accuracy +/- 5 %

Customer Part# N/A

Component	Reported Concentration	Requested Concentration
Methane	25 ppm	25 ppm
Air	Balance	Balance

Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved:

Aaron Schwenken
Lab Manager

Date Signed:

12/7/2023



800.962.7837
www.premiersafety.com

33596 Sterling Road
Sterling Heights, MI

Components

Methane
Air

Concentration (Mole %)

25 ppm
Balance

Lot#: 3-340-62

Accuracy: +/- 5 %

Part: J197125PA

Contents: 103Liters-3.6Cu.Ft.,-1000psig

MFG Date: 12/7/2023

Exp. Date: 12/2027

CALIBRATION GAS



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# 260447
P/N MET-500-103L

EXP: JAN/2025

TVA

EQUIPCO SALES & SERVICE

2100 MERIDIAN PARK BLVD
Concord, CA 94520
TO REORDER CALL 1 (888) 234-5678

**AIR, ULTRA ZERO
THC <0.2 PPM**

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG
Lot# 260362
P/N AIR-ZER-103L

EXP: JAN/2025

TVA
zero

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 5/16/24
Time: 530 AM _____ PM
Instrument Make: Thermo Scientific Model: TVA 1000B 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 = 501
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): 2 ppm (b)

Calculate Background Value:

$$\frac{(a) + (b)}{2} \quad \text{Background} = \underline{2} \text{ ppm}$$

Performed by: R. H. R.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: GUADALUPE Date: 4/23/24
Time: 7:20 AM PM
Instrument Make: THERMIL Model: TVA1000 S/N: 0914635772

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.

2. Introduce the calibration gas into the probe.

Stable Reading = 502 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: Nico Moffitt

RESPONSE TIME TEST RECORD

Date: 4/18/24

Expiration Date (3 months): 7/18/24

Time: _____ AM 12:26 PM

Instrument Make: THERMA Model: TVA1000 S/N: 0914635712

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 503 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: 503 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 5 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \underline{5} \text{ seconds (must be less than 30 seconds)}$$

Performed By: N. MOFFAT

CALIBRATION PRECISION TEST RECORD

Date: 4/18/24

Expiration Date (3 months): 7/18/24

Time: _____ AM 12:05 PM

Instrument Make: THERMAL Model: TVA1000 S/N: 0914635772

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 507 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 513 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 538 ppm (f)

Calculate Precision:

$$\frac{\{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|\}}{3} \times \frac{1}{500} \times 100$$

14 % (must be < than 10%)

Performed By: N. Moffitt

APPENDIX I

MONTHLY SOLID WASTE PLACEMENT TOTALS

Guadalupe Recycling & Disposal Facility, San Jose, CA

Solid Waste Placement Totals

April 1, 2024 through September 30, 2024

Month	Decomposed Waste Disposed in tons	Total Waste Disposed During Reporting Period
Apr-24	11,179	67,782
May-24	12,292	
Jun-24	11,769	
Jul-24	11,418	
Aug-24	10,933	
Sep-24	10,191	

APPENDIX J

WELLFIELD MONITORING LOGS

Guadalupe Recycling & Disposal Facility, San Jose, CA

Wellfield Monitoring Report - April 1, 2, 5, 8, 9, 15, 16, 18, and 29, 2024

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	4/5/2024 11:29	46.9	40.0	0.0	13.1	130.3	130.3	-18.1	-13.8
GDLC0189	4/5/2024 11:36	44.5	40.7	0.0	14.8	126.4	121.2	-6.7	-4.5
GDLC0190	4/5/2024 11:40	43.5	40.2	0.0	16.3	125.2	123.3	-12.5	-7.1
GDLC0191	4/5/2024 11:52	51.4	42.7	0.0	5.9	123.1	123.1	-39.3	-38.4
GDLC0192	4/18/2024 8:21	52.3	39.3	1.0	7.4	112.7	114.9	-27.0	-20.6
GDLC0192	4/18/2024 8:24	46.3	39.9	1.8	12.0	115.8	115.8	-21.6	-20.9
GDLC0193	4/5/2024 13:21	47.0	40.8	0.0	12.2	130.5	127.9	-11.6	-7.1
GDLC0196	4/5/2024 9:07	32.4	29.3	0.0	38.3	46.8	46.8	-0.4	-0.4
GDLC0197	4/2/2024 13:30	53.1	40.9	0.0	6.0	129.0	129.4	-3.7	-4.7
GDLC0232	4/5/2024 9:00	49.7	40.3	0.0	10.0	115.8	116.1	-2.4	-3.0
GDLC0233	4/5/2024 11:08	53.8	35.1	0.3	10.8	99.8	102.5	-3.5	-5.1
GDLC0234	4/5/2024 8:36	44.7	39.1	0.0	16.2	112.8	112.8	-0.8	-0.8
GDLC0235	4/29/2024 11:08	53.2	43.9	0.2	2.7	100.3	102.2	-26.8	-27.7
GDLC0236	4/8/2024 11:20	38.5	39.7	0.0	21.8	124.9	125.0	-1.5	-1.5
GDLC0237	4/5/2024 13:37	41.9	34.9	3.6	19.6	109.1	96.9	-31.4	-5.7
GDLC0238	4/2/2024 13:42	50.1	39.5	0.0	10.4	113.5	113.7	-0.2	-0.4
GDLC0239	4/4/2024 12:43	46.2	43.4	0.0	10.4	110.6	110.6	-0.6	-0.6
GDLC0240	4/4/2024 12:46	51.1	42.4	0.8	5.7	120.0	120.0	-6.6	-6.6
GDLC0241	4/4/2024 12:51	54.5	42.9	0.4	2.2	123.6	123.6	-0.8	-0.7
GDLC0242	4/3/2024 12:57	57.5	40.2	0.1	2.2	73.9	73.8	-12.4	-15.7
GDLC0243	4/3/2024 12:48	53.6	44.1	0.0	2.3	110.6	110.5	-3.9	-5.9
GDLC0244	4/2/2024 13:49	53.5	42.2	0.2	4.1	121.4	122.0	-1.2	-2.5
GUAD0062	4/4/2024 12:30	43.7	34.2	2.2	19.9	86.3	83.6	-39.5	-32.7
GUAD0066	4/2/2024 12:51	55.7	42.4	0.0	1.9	95.6	94.5	-27.3	-27.0
GUAD0081	4/1/2024 13:49	56.7	40.5	0.0	2.8	99.2	99.3	-51.1	-51.1
GUAD0082	4/1/2024 14:09	52.5	35.4	1.1	11.0	80.0	80.0	-52.4	-50.6
GUAD0112	4/2/2024 12:32	48.3	38.3	0.0	13.4	122.1	122.8	-0.9	-1.3
GUAD0112	4/8/2024 9:44	48.6	37.2	0.0	14.2	122.5	122.7	-1.6	-2.2
GUAD0114	4/5/2024 13:31	54.8	42.2	0.3	2.7	51.8	51.8	-52.0	-51.6
GUAD0122	4/8/2024 12:10	56.5	40.5	0.1	2.9	112.0	111.5	-46.1	-45.1
GUAD0124	4/5/2024 11:48	55.7	42.5	0.0	1.8	124.5	124.4	-35.8	-36.5
GUAD0129	4/4/2024 12:57	62.0	37.4	0.2	0.4	58.9	59.0	-2.1	-2.3
GUAD0131	4/3/2024 11:56	58.8	40.0	0.1	1.1	110.6	110.2	-50.8	-50.7
GUAD0134	4/3/2024 13:30	51.4	39.6	0.0	9.0	124.3	124.3	-1.6	-1.7
GUAD0135	4/8/2024 12:47	54.4	39.1	0.0	6.5	128.4	128.4	-4.7	-4.7
GUAD0138	4/2/2024 12:41	35.1	31.1	0.0	33.8	91.5	91.6	-3.3	-3.3
GUAD0138	4/8/2024 9:52	36.5	30.9	0.0	32.6	88.3	92.9	-2.8	-11.9
GUAD0142	4/2/2024 13:04	50.1	38.3	0.0	11.6	103.7	103.8	-8.6	-9.2
GUAD0142	4/8/2024 9:26	51.7	38.2	0.2	9.9	103.4	103.6	-8.9	-9.5
GUAD0146	4/8/2024 12:25	54.3	42.7	0.0	3.0	129.6	127.2	-37.0	-36.0
GUAD0147	4/5/2024 8:47	53.6	41.0	0.0	5.4	113.7	113.8	-25.4	-27.7
GUAD0151	4/5/2024 11:21	58.6	39.4	0.0	2.0	130.8	130.6	-24.1	-25.0
GUAD0152	4/8/2024 11:36	52.9	38.6	1.4	7.1	97.7	100.1	-33.8	-32.3
GUAD0154	4/8/2024 12:31	30.7	31.6	2.0	35.7	68.7	68.6	-4.3	-6.8
GUAD0161	4/8/2024 10:31	48.3	39.5	0.0	12.2	79.1	79.3	-6.8	-6.9
GUAD0162	4/8/2024 10:40	56.5	42.2	0.0	1.3	127.1	126.0	-46.4	-46.4
GUAD0172	4/3/2024 12:35	53.3	39.6	0.0	7.1	113.5	113.8	-6.2	-6.8
GUAD0172	4/9/2024 13:19	53.9	38.9	0.0	7.2	114.0	114.0	-7.1	-7.3
GUAD0173	4/3/2024 12:26	49.8	38.9	0.1	11.2	127.9	127.9	-5.8	-5.9
GUAD0173	4/9/2024 13:13	49.8	37.9	0.0	12.3	128.2	128.1	-6.2	-8.5
GUAD0176	4/5/2024 8:54	46.9	39.8	0.0	13.3	101.0	100.9	-1.0	-1.0
GUAD0177	4/5/2024 11:12	55.8	38.6	0.0	5.6	114.1	115.0	-27.5	-30.0
GUAD0179	4/8/2024 12:03	43.5	34.5	0.0	22.0	109.6	109.7	-0.3	-0.3
GUAD0180	4/8/2024 12:18	53.3	42.8	0.0	3.9	82.6	100.5	-31.0	-31.6
GUAD0181	4/8/2024 11:24	52.3	44.5	0.0	3.2	128.0	129.1	-41.5	-43.6
GUAD0183	4/5/2024 11:44	54.5	43.3	0.0	2.2	75.0	74.9	-45.6	-45.6
GUAD0184	4/3/2024 10:37	57.7	38.3	1.0	3.0	125.8	125.5	-17.9	-16.4
GUAD0185	4/5/2024 13:26	54.2	42.3	0.0	3.5	127.8	128.1	-41.7	-41.1
GUAD0186	4/5/2024 13:19	54.4	42.7	0.1	2.8	118.8	120.4	-44.3	-42.6
GUAD0187	4/18/2024 8:35	57.3	42.6	0.0	0.1	95.8	96.8	-31.0	-30.8
GUAD0198	4/8/2024 12:06	48.7	37.3	0.0	14.0	124.3	124.5	-3.6	-3.6
GUAD0199	4/8/2024 11:55	54.1	38.4	0.0	7.5	129.5	129.7	-12.8	-12.8

GUAD0200	4/8/2024 11:31	55.8	41.3	0.0	2.9	129.2	129.1	-28.4	-28.4
GUAD0201	4/5/2024 8:31	50.3	40.2	1.3	8.2	106.0	106.6	-25.1	-25.2
GUAD0202	4/8/2024 12:39	47.2	35.7	0.0	17.1	124.0	124.0	-1.6	-1.6
GUAD0203	4/5/2024 8:19	53.7	43.0	0.6	2.7	106.2	105.4	-27.7	-27.7
GUAD0204	4/5/2024 8:42	52.6	40.2	1.2	6.0	46.6	46.7	-27.4	-27.1
GUAD0205	4/8/2024 11:15	43.7	40.0	0.0	16.3	128.6	127.6	-2.3	-2.2
GUAD0207	4/8/2024 11:44	44.0	38.1	0.0	17.9	130.8	130.6	-0.9	-0.4
GUAD0208	4/8/2024 11:29	44.4	37.8	0.0	17.8	127.2	127.3	-0.7	-0.7
GUAD0209	4/8/2024 12:15	42.7	37.0	0.0	20.3	126.2	124.2	-0.6	-0.6
GUAD0211	4/8/2024 12:22	43.1	40.4	0.0	16.5	130.7	130.7	-5.7	-3.9
GUAD0213	4/8/2024 10:47	56.4	43.6	0.0	0.0	100.2	100.7	-41.4	-43.1
GUAD0214	4/8/2024 10:25	46.2	35.9	0.0	17.9	125.3	124.2	-18.5	-12.5
GUAD0215	4/8/2024 11:06	41.2	34.0	1.1	23.7	107.7	125.3	-1.2	-1.3
GUAD0216	4/8/2024 11:11	42.3	38.0	0.0	19.7	127.8	126.2	-2.6	-2.5
GUAD0217	4/5/2024 13:14	50.8	42.8	0.0	6.4	124.1	124.0	-2.9	-3.8
GUAD0218	4/5/2024 13:09	52.4	42.3	0.0	5.3	120.1	125.7	-4.4	-5.5
GUAD0219	4/3/2024 12:16	53.3	39.4	0.3	7.0	125.3	125.2	-6.6	-7.4
GUAD0219	4/9/2024 13:05	53.8	38.6	0.0	7.6	125.3	125.3	-8.8	-9.4
GUAD0220	4/2/2024 14:29	52.6	39.6	1.2	6.6	114.1	114.2	-43.3	-43.2
GUAD0221	4/3/2024 12:08	39.9	32.6	3.8	23.7	121.4	120.9	-2.8	-2.1
GUAD0222	4/5/2024 7:32	43.6	34.0	0.0	22.4	105.0	103.7	-0.5	-0.5
GUAD0222	4/8/2024 10:12	42.5	34.3	0.0	23.2	106.0	106.9	-0.4	-0.4
GUAD0223	4/15/2024 9:18	45.3	38.3	0.0	16.4	100.0	113.1	-0.1	0.0
GUAD0223	4/16/2024 7:48	48.1	37.7	0.2	14.0	119.1	119.1	-0.8	-0.8
GUAD0223	4/16/2024 7:50	46.6	38.5	0.0	14.9	119.2	119.3	-0.7	-0.7
GUAD0224	4/15/2024 9:09	42.9	37.0	0.0	20.1	106.8	107.6	-0.7	-0.7
GUAD0225	4/2/2024 12:19	51.9	38.1	0.0	10.0	123.2	123.5	-2.4	-2.9
GUAD0225	4/8/2024 9:38	48.2	35.5	1.6	14.7	121.0	121.4	-2.8	-3.5
GUAD0226	4/4/2024 13:06	52.6	46.4	0.0	1.0	118.1	118.8	-3.0	-4.5
GUAD0227	4/2/2024 12:07	43.5	34.2	0.2	22.1	108.4	107.3	-0.5	-0.4
GUAD0227	4/8/2024 9:33	47.5	36.6	0.0	15.9	102.2	110.5	-0.2	-0.9
GUAD0228	4/2/2024 13:15	29.0	28.1	0.0	42.9	108.9	108.9	-0.4	-0.3
GUAD0230	4/5/2024 7:37	42.1	33.2	0.0	24.7	110.7	110.7	-1.3	-1.3
GUAD0230	4/8/2024 10:01	41.3	33.3	0.0	25.4	112.8	113.0	-1.1	-1.6
GUAD0245	4/3/2024 13:22	46.7	40.7	0.0	12.6	107.6	107.4	-0.5	-0.4
GUAD0246	4/4/2024 12:25	37.3	34.8	0.0	27.9	83.3	83.4	-0.1	-0.1
GUAD0247	4/3/2024 13:38	42.9	41.4	0.0	15.7	117.1	117.1	-0.2	-0.3
GUADH11L	4/1/2024 13:39	56.2	38.1	0.1	5.6	63.9	63.9	-39.3	-41.4
GUADH12L	4/1/2024 14:19	46.4	29.9	3.3	20.4	88.6	89.2	-7.7	-7.7

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO), and may operate at up to 15.0 percent oxygen.

There are 88 total collectors (86 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 - May 1, 2, 3, 13, and 16, 2024

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	5/3/2024 13:49	50.5	39.9	0.0	9.6	120.7	121.0	-5.3	-5.3
GDLC0189	5/3/2024 13:48	49.8	42.5	0.0	7.7	129.1	120.0	-3.0	-4.5
GDLC0190	5/2/2024 11:49	47.1	41.2	0.0	11.7	123.9	123.9	-6.7	-6.7
GDLC0191	5/2/2024 11:41	46.8	42.1	0.0	11.1	124.9	124.9	-39.5	-39.5
GDLC0192	5/1/2024 11:57	53.5	44.4	0.0	2.1	126.2	126.6	-20.5	-18.8
GDLC0193	5/2/2024 11:33	46.9	42.3	0.0	10.8	130.0	130.2	-7.3	-7.3
GDLC0196	5/2/2024 10:24	19.7	26.3	0.0	54.0	75.9	75.9	-2.4	-2.4
GDLC0197	5/2/2024 9:35	54.3	38.6	2.1	5.0	127.8	127.9	-4.7	-5.6
GDLC0232	5/2/2024 10:36	45.0	38.6	0.0	16.4	116.1	115.9	-3.3	-2.2
GDLC0233	5/2/2024 10:41	40.9	35.4	0.0	23.7	107.3	107.3	-6.6	-5.9
GDLC0234	5/2/2024 11:10	45.2	37.6	0.0	17.2	113.9	113.7	-0.7	-0.7
GDLC0235	5/3/2024 14:08	46.8	43.5	0.3	9.4	115.3	115.3	-7.8	-10.6
GDLC0236	5/3/2024 13:02	43.4	42.8	0.0	13.8	126.7	126.2	-1.0	-0.6
GDLC0237	5/2/2024 11:21	53.2	42.3	0.0	4.5	114.4	121.7	-7.2	-15.2
GDLC0238	5/2/2024 9:03	46.3	37.6	0.0	16.1	112.9	112.6	-0.7	-0.5
GDLC0239	5/3/2024 13:55	46.7	44.4	0.0	8.9	112.6	112.6	-0.5	-0.4
GDLC0240	5/1/2024 11:28	53.5	41.6	0.0	4.9	119.1	110.5	-5.8	-0.3
GDLC0241	5/3/2024 13:59	53.8	43.7	0.6	1.9	124.8	124.8	-1.9	-1.0
GDLC0242	5/1/2024 11:32	55.0	37.7	1.1	6.2	75.2	75.4	-22.8	-22.9
GDLC0243	5/1/2024 11:38	49.7	42.4	0.0	7.9	113.9	113.9	-14.5	-16.1
GDLC0244	5/2/2024 9:08	52.3	40.9	0.0	6.8	121.2	121.2	-2.7	-3.5
GUAD0062	5/1/2024 12:44	48.8	38.0	0.0	13.2	90.3	90.4	-18.9	-20.2
GUAD0066	5/1/2024 9:25	58.1	40.9	0.0	1.0	89.8	88.7	-20.4	-20.1
GUAD0081	5/2/2024 9:29	57.7	41.3	0.0	1.0	100.4	100.3	-50.8	-52.1
GUAD0082	5/2/2024 9:25	59.5	38.6	0.1	1.8	76.0	75.9	-52.4	-52.5
GUAD0112	5/1/2024 9:17	43.1	35.6	0.0	21.3	121.4	121.7	-2.2	-1.5
GUAD0114	5/2/2024 9:51	51.1	43.8	0.7	4.4	75.4	75.5	-52.4	-52.4
GUAD0122	5/3/2024 12:39	56.0	41.6	0.0	2.4	123.2	125.1	-39.2	-38.5
GUAD0124	5/2/2024 11:44	53.9	43.1	0.0	3.0	125.4	125.8	-38.6	-38.5
GUAD0129	5/1/2024 12:19	58.1	33.2	0.2	8.5	78.0	78.2	-2.4	-2.5
GUAD0131	5/2/2024 8:01	60.9	39.0	0.1	0.0	109.9	112.0	-51.1	-48.8
GUAD0134	5/1/2024 12:37	54.0	39.8	0.0	6.2	122.8	123.1	-1.9	-3.0
GUAD0135	5/1/2024 12:29	53.1	42.1	0.0	4.8	125.2	125.0	-4.6	-4.6
GUAD0138	5/1/2024 9:30	21.2	26.9	3.6	48.3	95.4	94.8	-15.8	-9.2
GUAD0142	5/1/2024 8:53	54.3	34.5	0.2	11.0	102.7	102.8	-8.4	-8.9
GUAD0146	5/3/2024 12:53	54.6	41.2	0.0	4.2	128.3	127.4	-29.1	-28.5
GUAD0147	5/2/2024 9:52	51.9	37.5	0.6	10.0	114.8	114.8	-30.1	-29.4
GUAD0151	5/3/2024 12:14	53.9	40.2	0.7	5.2	108.7	108.0	-33.0	-34.2
GUAD0152	5/3/2024 12:12	53.3	39.9	1.6	5.2	107.3	109.9	-31.9	-37.1
GUAD0154	5/3/2024 12:57	54.7	38.8	0.0	6.5	84.9	88.3	-11.9	-12.6
GUAD0161	5/2/2024 11:02	46.2	35.8	2.6	15.4	79.1	79.0	-6.6	-6.3
GUAD0162	5/2/2024 11:09	54.2	41.7	0.0	4.1	129.2	128.2	-46.9	-47.0
GUAD0172	5/2/2024 8:30	51.8	39.2	0.0	9.0	113.7	113.6	-8.2	-8.1
GUAD0173	5/2/2024 8:25	46.5	37.9	0.0	15.6	123.2	102.3	-4.6	-3.3
GUAD0176	5/2/2024 10:03	48.0	38.8	0.0	13.2	105.8	105.9	-1.4	-1.5
GUAD0177	5/2/2024 10:57	52.8	38.9	0.0	8.3	121.0	115.0	-37.8	-33.6
GUAD0179	5/3/2024 12:27	36.5	33.7	0.0	29.8	112.4	112.5	-0.5	-0.5
GUAD0180	5/3/2024 12:45	52.2	44.0	0.0	3.8	106.5	109.5	-27.3	-27.9
GUAD0181	5/3/2024 13:05	51.7	44.4	0.0	3.9	130.3	130.2	-33.9	-34.2
GUAD0183	5/2/2024 9:24	52.8	39.7	1.4	6.1	79.3	79.9	-34.6	-32.3
GUAD0184	5/2/2024 9:14	57.7	42.3	0.0	0.0	121.7	122.1	-16.0	-16.0
GUAD0185	5/2/2024 11:25	55.4	43.7	0.0	0.9	127.8	127.5	-44.7	-45.0
GUAD0186	5/2/2024 11:30	54.9	43.8	0.0	1.3	124.4	125.0	-44.8	-44.8
GUAD0187	5/1/2024 12:04	40.4	46.0	0.0	13.6	106.1	104.7	-27.9	-11.7
GUAD0198	5/3/2024 12:32	49.4	38.5	0.0	12.1	126.1	126.2	-4.9	-4.8
GUAD0199	5/3/2024 12:24	52.2	39.7	0.0	8.1	129.7	129.8	-19.5	-19.4
GUAD0200	5/3/2024 12:18	56.6	41.5	0.0	1.9	124.4	123.0	-29.7	-29.7
GUAD0201	5/2/2024 11:12	48.7	39.4	1.0	10.9	111.2	111.3	-28.2	-28.2
GUAD0202	5/2/2024 10:01	49.6	37.7	0.0	12.7	124.0	123.6	-1.6	-1.2
GUAD0203	5/2/2024 9:42	43.5	39.3	1.9	15.3	111.4	111.8	-30.0	-30.3
GUAD0204	5/2/2024 9:47	51.8	39.0	1.0	8.2	75.2	75.3	-32.3	-30.5
GUAD0205	5/3/2024 13:19	47.0	42.5	0.0	10.5	128.2	128.9	-1.9	-1.9

GUAD0207	5/3/2024 12:21	46.9	39.2	0.0	13.9	128.9	128.8	-0.7	-0.6
GUAD0208	5/3/2024 13:10	45.1	38.6	0.0	16.3	118.0	117.2	-0.2	-0.1
GUAD0209	5/3/2024 12:42	47.9	41.8	0.0	10.3	128.3	128.5	-0.8	-0.8
GUAD0211	5/3/2024 12:48	45.9	42.8	0.0	11.3	130.6	130.8	-4.3	-4.3
GUAD0213	5/2/2024 11:12	55.5	43.5	0.0	1.0	129.9	129.8	-45.0	-44.8
GUAD0214	5/2/2024 10:39	52.4	39.1	0.0	8.5	126.3	126.3	-9.3	-10.1
GUAD0215	5/2/2024 11:52	42.5	38.7	0.5	18.3	129.9	130.0	-1.0	-1.0
GUAD0216	5/3/2024 13:15	43.6	39.8	0.0	16.6	128.1	129.1	-1.3	-1.3
GUAD0217	5/2/2024 11:37	39.0	38.5	0.0	22.5	130.6	128.5	-4.6	-4.6
GUAD0218	5/6/2024 8:16	50.6	39.8	0.1	9.5	123.2	123.5	-5.2	-5.2
GUAD0218	5/13/2024 12:14	23.8	61.4	0.0	14.8	88.5	88.6	-0.3	-0.3
GUAD0219	5/2/2024 8:15	51.7	40.2	0.0	8.1	56.3	56.2	-9.6	-9.6
GUAD0220	5/1/2024 11:50	54.9	42.4	0.0	2.7	121.0	121.0	-25.3	-26.9
GUAD0221	5/2/2024 8:09	47.9	40.2	0.0	11.9	117.4	118.7	-2.3	-2.4
GUAD0222	5/1/2024 10:50	46.9	36.4	0.0	16.7	108.9	108.7	-0.6	-0.5
GUAD0223	5/1/2024 11:22	41.1	37.9	0.9	20.1	77.4	77.7	-0.1	-0.1
GUAD0224	5/16/2024 12:23	46.4	38.3	0.0	15.3	116.9	117.1	-0.6	-0.6
GUAD0225	5/1/2024 9:08	48.8	38.2	0.0	13.0	121.9	121.7	-3.8	-2.3
GUAD0226	5/1/2024 12:24	52.6	42.5	0.0	4.9	117.2	117.4	-5.0	-5.8
GUAD0227	5/1/2024 9:01	42.8	35.7	0.0	21.5	118.1	117.3	-1.2	-1.0
GUAD0228	5/2/2024 8:56	30.0	28.9	0.0	41.1	108.9	108.7	-1.1	-0.8
GUAD0230	5/1/2024 10:57	38.2	33.4	0.0	28.4	113.0	112.3	-1.9	-0.9
GUAD0245	5/1/2024 12:41	51.1	39.4	0.0	9.5	107.3	107.4	-0.4	-0.4
GUAD0246	5/1/2024 12:48	39.7	35.3	0.0	25.0	94.2	94.2	-0.2	-0.2
GUAD0247	5/1/2024 10:43	50.9	39.7	0.1	9.3	116.3	116.4	-0.5	-0.4
GUADH11L	5/2/2024 9:41	53.0	38.5	1.4	7.1	66.5	66.5	-33.8	-34.4
GUADH12L	5/2/2024 9:21	41.7	29.2	3.9	25.2	73.0	73.1	-6.2	-6.2

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO), and may operate at up to 15.0 percent oxygen.

There are 88 total collectors (86 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 - June 5, 6, 7, 10, 11, 12, 13, 14, 20 and 24, 2024

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	6/10/2024 13:23	33.7	30.2	4.8	31.3	125.3	124.1	-9.4	-6.6
GDLC0189	6/11/2024 13:14	46.8	40.6	0.0	12.6	129.8	129.1	-5.1	-4.0
GDLC0190	6/12/2024 13:18	44.1	39.0	0.0	16.9	123.7	122.5	-5.3	-1.6
GDLC0191	6/12/2024 13:10	48.1	39.2	0.2	12.5	125.4	125.5	-34.8	-34.1
GDLC0192	6/11/2024 10:06	54.3	43.5	0.0	2.2	128.3	128.2	-24.2	-26.5
GDLC0193	6/20/2024 9:34	53.6	44.2	0.0	2.2	117.1	118.0	-4.8	-8.9
GDLC0196	6/14/2024 9:45	25.0	29.5	0.0	45.5	75.4	75.6	-1.2	-1.2
GDLC0197	6/7/2024 10:16	48.8	16.0	0.0	35.2	126.3	126.3	-5.7	-5.1
GDLC0232	6/14/2024 9:50	44.4	39.5	0.0	16.1	115.0	114.9	-1.7	-1.6
GDLC0233	6/10/2024 13:12	54.8	38.7	0.0	6.5	96.0	96.5	-1.4	-2.5
GDLC0234	6/12/2024 13:34	43.8	37.9	0.1	18.2	114.1	114.0	-0.1	-0.1
GDLC0235	6/14/2024 10:58	50.0	46.2	0.0	3.8	95.4	95.8	-34.6	-34.6
GDLC0236	6/10/2024 12:10	49.5	43.8	0.0	6.7	113.5	115.6	-0.1	-0.2
GDLC0237	6/6/2024 8:18	53.6	17.5	0.0	28.9	122.1	122.0	-19.6	-23.5
GDLC0238	6/13/2024 12:43	40.1	36.5	0.0	23.4	112.1	112.1	-0.2	-0.1
GDLC0239	6/12/2024 15:13	46.4	38.1	0.3	15.2	110.9	110.9	-1.4	-1.3
GDLC0240	6/11/2024 10:27	53.2	42.4	0.0	4.4	119.8	119.8	-4.4	-4.4
GDLC0241	6/13/2024 12:16	56.3	43.4	0.0	0.3	124.3	124.4	-2.3	-2.3
GDLC0242	6/11/2024 10:23	59.3	40.5	0.0	0.2	96.3	96.3	-8.3	-8.3
GDLC0243	6/11/2024 10:18	51.0	44.0	0.0	5.0	117.2	117.1	-12.0	-14.1
GDLC0244	6/13/2024 12:47	43.0	38.5	0.0	18.5	122.4	122.4	-3.4	-2.2
GUAD0062	6/6/2024 13:11	42.4	14.2	0.2	43.2	96.3	96.3	-20.4	-16.4
GUAD0066	6/6/2024 10:46	56.4	16.6	0.0	27.0	95.8	95.8	-22.5	-22.6
GUAD0081	6/5/2024 8:25	58.5	16.8	0.0	24.7	103.1	103.8	-50.1	-50.1
GUAD0082	6/5/2024 8:20	60.8	16.0	0.0	23.2	91.6	93.6	-51.0	-50.6
GUAD0112	6/6/2024 10:34	48.0	15.2	0.0	36.8	121.7	121.6	-0.4	-0.3
GUAD0114	6/6/2024 8:10	50.6	16.9	1.4	31.1	77.9	78.3	-51.1	-50.3
GUAD0122	6/7/2024 7:57	57.6	17.0	0.0	25.4	124.4	124.5	-41.9	-41.6
GUAD0124	6/12/2024 13:14	54.5	41.6	0.4	3.5	126.2	126.3	-32.9	-32.9
GUAD0129	6/14/2024 13:23	35.0	23.6	8.3	33.1	86.8	86.8	-0.3	-0.3
GUAD0129	6/17/2024 10:37	61.9	37.7	0.0	0.4	82.0	82.0	0.7	0.7
GUAD0129	6/17/2024 10:44	61.4	37.8	0.0	0.8	82.9	82.9	2.7	2.7
GUAD0129	6/27/2024 13:54	61.7	37.5	0.0	0.8	96.8	96.7	-17.5	-16.2
GUAD0131	6/11/2024 9:19	49.5	34.9	2.5	13.1	113.4	113.5	-47.9	-51.5
GUAD0134	6/6/2024 13:02	51.8	16.2	0.0	32.0	124.1	124.1	-1.6	-1.7
GUAD0135	6/13/2024 12:28	53.6	41.0	0.0	5.4	128.7	127.8	-5.8	-5.8
GUAD0138	6/6/2024 10:45	35.3	13.7	0.0	51.0	93.8	94.1	-1.9	-2.0
GUAD0142	6/5/2024 8:39	49.5	15.8	0.0	34.7	103.2	103.2	-9.1	-9.1
GUAD0146	6/7/2024 8:15	57.6	17.2	0.0	25.2	129.6	128.9	-30.0	-29.2
GUAD0147	6/7/2024 10:27	49.3	15.8	0.6	34.3	114.8	114.8	-26.0	-26.0
GUAD0151	6/10/2024 12:44	57.7	40.0	0.0	2.3	126.4	126.8	-20.5	-20.8
GUAD0152	6/10/2024 13:17	51.8	39.7	1.0	7.5	113.0	112.6	-25.8	-27.1
GUAD0154	6/24/2024 11:34	39.5	54.4	0.1	6.0	101.9	102.0	-11.6	-7.9
GUAD0161	6/14/2024 10:31	55.8	30.7	0.0	13.5	103.3	101.9	-7.0	-7.1
GUAD0162	6/6/2024 8:48	56.9	17.2	0.0	25.9	127.0	129.7	-45.0	-45.1
GUAD0172	6/11/2024 9:24	51.6	38.1	0.0	10.3	113.0	113.0	-8.3	-8.1
GUAD0173	6/11/2024 9:34	53.4	40.1	0.0	6.5	126.5	126.6	-1.6	-2.2
GUAD0176	6/12/2024 14:18	42.6	38.1	0.0	19.3	106.9	107.2	-0.6	-0.6
GUAD0177	6/10/2024 12:48	54.5	40.0	0.0	5.5	119.2	119.4	-29.8	-26.2
GUAD0179	6/7/2024 7:53	34.8	14.4	0.0	50.8	111.1	111.1	-0.4	-0.4
GUAD0180	6/7/2024 8:06	54.6	17.4	0.6	27.4	102.7	103.1	-34.4	-34.4
GUAD0180	6/7/2024 8:06	54.6	17.4	0.6	27.4	102.7	103.1	-34.4	-34.4
GUAD0181	6/14/2024 10:42	52.2	43.5	0.0	4.3	128.5	128.1	-32.4	-34.1
GUAD0183	6/14/2024 13:42	54.4	40.0	0.1	5.5	83.5	84.3	-33.3	-34.9
GUAD0184	6/13/2024 12:50	56.6	43.3	0.1	0.0	122.0	121.7	-18.8	-19.3
GUAD0185	6/6/2024 8:23	52.3	16.7	0.6	30.4	129.4	129.5	-39.9	-41.2
GUAD0186	6/20/2024 9:29	53.5	41.3	0.7	4.5	101.5	101.9	-41.9	-41.4
GUAD0187	6/7/2024 8:54	55.0	17.8	0.0	27.2	128.6	124.8	-44.1	-43.4
GUAD0187	6/11/2024 10:10	47.3	49.7	0.0	3.0	108.2	108.2	-9.6	-7.9
GUAD0198	6/7/2024 7:49	51.7	16.3	0.0	32.0	124.8	124.7	-4.5	-4.5
GUAD0199	6/7/2024 7:36	52.4	16.2	0.0	31.4	127.8	127.8	-22.2	-21.5
GUAD0200	6/7/2024 8:47	58.2	17.1	0.0	24.7	129.5	129.5	-25.5	-26.1
GUAD0201	6/12/2024 13:37	44.4	37.7	2.0	15.9	108.9	109.2	-23.2	-23.1

GUAD0202	6/6/2024 9:20	54.2	15.9	0.0	29.9	120.0	120.7	-0.5	-0.6
GUAD0203	6/7/2024 10:21	53.3	17.2	0.2	29.3	111.5	111.7	-27.7	-28.1
GUAD0204	6/7/2024 10:31	47.6	15.5	2.5	34.4	85.2	85.3	-27.4	-27.7
GUAD0205	6/11/2024 13:09	44.2	40.2	0.0	15.6	96.9	96.6	-1.6	-1.2
GUAD0207	6/7/2024 7:43	47.8	16.5	0.0	35.7	129.9	129.2	-0.1	-0.1
GUAD0208	6/11/2024 12:55	43.5	37.0	0.2	19.3	124.9	125.3	-0.5	-0.5
GUAD0209	6/7/2024 8:01	48.6	16.8	0.0	34.6	134.0	134.0	-0.3	-0.4
GUAD0211	6/7/2024 8:10	CO was 0 ppm							
GUAD0211	6/7/2024 8:10	46.7	17	0.1	36.2	131.2	131.1	-3.24	-2.43
GUAD0211	6/10/2024 11:59	CO was 0 ppm							
GUAD0211	6/10/2024 11:59	47.3	40.4	0.5	11.8	126.2	126.2	-1.64	-1.61
GUAD0211	6/14/2024 8:00	CO was 0 ppm							
GUAD0213	6/6/2024 8:54	23.5	14.9	1.7	59.9	129.7	128	-25.58	-21.75
GUAD0214	6/6/2024 9:04	50.7	16.1	0	33.2	125.9	125.9	-12	-12.8
GUAD0215	6/10/2024 12:05	45.5	39.8	0.3	14.4	129.8	129.1	-0.69	-0.55
GUAD0216	6/10/2024 12:19	47.9	41.3	0	10.8	124.9	124.9	-0.92	-0.8
GUAD0217	6/14/2024 9:19	44	38.3	0.2	17.5	128	127.4	-4.62	-4.62
GUAD0218	6/14/2024 10:52	36.9	48.6	0	14.5	104.1	103.4	-0.33	-0.3
GUAD0219	6/11/2024 9:36	51.3	39.2	0	9.5	124.5	124.5	-9.31	-9.4
GUAD0220	6/11/2024 10:14	54.5	43	0	2.5	123.4	123.4	-31.32	-32.24
GUAD0221	6/11/2024 9:42	45.5	38.8	0	15.7	119.6	118.6	-0.07	-0.12
GUAD0222	6/10/2024 14:54	22.4	28.1	0.9	48.6	109.1	108.9	-0.84	-0.84
GUAD0223	6/10/2024 14:49	36.5	36	0	27.5	124.5	126.7	-5.74	-2.72
GUAD0224	6/10/2024 14:43	37.8	38.5	0	23.7	119.7	119.7	-1.05	-1.04
GUAD0225	6/6/2024 10:38	47.5	15.2	1.4	35.9	120.5	120.5	-1.2	-1.12
GUAD0226	6/13/2024 12:21	47.7	43.9	0	8.4	117.8	117.7	-7.21	-5.18
GUAD0227	6/6/2024 10:07	45.9	14.2	0	39.9	116.4	116.4	-0.4	-0.41
GUAD0228	6/7/2024 10:09	28.3	13.4	0	58.3	117.6	117.4	-0.14	-0.17
GUAD0230	6/10/2024 14:58	25.7	28.4	0	45.9	113.9	114.1	-2.7	-1.24
GUAD0245	6/6/2024 13:06	45.1	16.4	0	38.5	109.3	109.2	-0.51	-0.48
GUAD0246	6/11/2024 11:01	35.3	34.5	0	30.2	96.5	96.5	-0.48	-0.48
GUAD0247	6/6/2024 12:58	44.1	17.2	0	38.7	117.3	117.2	-0.91	-0.74
GUADH11L	6/5/2024 8:31	58.4	16.5	0.1	25	84.3	84.3	-0.99	-1.01
GUADH12L	6/5/2024 8:13	33.9	10.6	8.3	47.2	76.3	76.4	-2.41	-2.37

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO), and may operate at up to 15.0 percent oxygen.

There are 88 total collectors (86 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 - July 1, 2, 9, 10, 11, 12 and 24, 2024

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	7/9/2024 13:18	55.5	43.1	0.0	1.4	115.1	116.7	-8.2	-14.9
GDLC0189	7/10/2024 13:30	43.7	37.5	2.8	16.0	128.2	128.5	-2.3	-2.7
GDLC0190	7/11/2024 11:28	54.7	41.4	0.0	3.9	113.5	113.9	-1.0	-1.8
GDLC0191	7/11/2024 11:32	47.8	40.3	0.4	11.5	124.1	124.1	-22.9	-23.2
GDLC0192	7/11/2024 12:58	52.6	45.2	0.0	2.2	128.8	128.8	-31.9	-23.0
GDLC0193	7/2/2024 13:13	43.8	44.6	0.0	11.6	124.3	124.4	-9.5	-8.0
GDLC0196	7/10/2024 12:42	38.9	30.6	0.0	30.5	93.4	93.4	-2.3	-2.2
GDLC0197	7/10/2024 12:07	44.6	36.0	1.0	18.4	126.3	126.3	-6.1	-5.3
GDLC0232	7/10/2024 12:49	53.7	40.9	0.0	5.4	114.9	115.3	-0.7	-1.2
GDLC0233	7/10/2024 12:45	52.8	38.3	0.0	8.9	108.5	108.5	-3.1	-4.0
GDLC0234	7/10/2024 13:23	53.1	40.9	0.0	6.0	113.7	113.9	-0.1	-0.2
GDLC0235	7/12/2024 9:22	54.0	45.5	0.0	0.5	105.0	105.2	-31.4	-30.1
GDLC0236	7/30/2024 10:13	5.9	5.8	17.6	70.7	79.2	79.0	-11.5	-0.7
GDLC0236	7/30/2024 10:14	0.6	2.4	19.8	77.2	78.7	78.8	-0.6	-0.6
GDLC0237	7/2/2024 11:26	51.2	40.0	0.1	8.7	123.5	123.4	-21.2	-27.8
GDLC0238	7/11/2024 12:14	37.2	33.6	0.1	29.1	112.1	112.3	-0.1	-0.1
GDLC0239	7/11/2024 13:19	46.9	41.7	0.0	11.4	114.4	114.4	-1.0	-0.9
GDLC0240	7/11/2024 13:15	52.5	41.7	0.1	5.7	118.0	118.0	-4.8	-4.7
GDLC0241	7/12/2024 13:32	54.2	41.7	0.0	4.1	124.7	124.4	-2.3	-2.3
GDLC0242	7/11/2024 11:35	50.8	39.0	1.3	8.9	121.4	121.0	-23.0	-24.1
GDLC0243	7/11/2024 13:07	50.6	42.6	0.0	6.8	119.4	119.3	-16.0	-16.6
GDLC0244	7/12/2024 12:50	41.7	38.0	0.0	20.3	122.8	122.9	-2.9	-2.9
GUAD0062	7/12/2024 8:22	49.2	31.0	0.3	19.5	91.9	92.1	-16.8	-19.8
GUAD0066	7/10/2024 10:47	59.7	38.6	0.1	1.6	96.8	96.9	-37.3	-35.6
GUAD0081	7/1/2024 13:20	57.3	40.8	0.0	1.9	111.1	111.1	-47.0	-47.6
GUAD0082	7/1/2024 13:16	63.8	33.0	0.6	2.6	98.3	98.3	-48.4	-48.5
GUAD0112	7/10/2024 11:02	49.6	36.6	0.0	13.8	122.4	122.4	-0.2	-0.2
GUAD0114	7/11/2024 10:46	50.7	42.9	0.9	5.5	95.1	93.0	-49.6	-49.5
GUAD0122	7/2/2024 10:18	53.0	35.5	0.9	10.6	129.0	129.0	-45.9	-45.8
GUAD0124	7/12/2024 13:42	51.0	39.2	1.2	8.6	126.1	126.1	-22.5	-23.0
GUAD0129	7/12/2024 9:17	57.4	40.8	0.0	1.8	94.0	94.0	-32.4	-30.2
GUAD0131	7/9/2024 12:29	56.5	41.1	0.0	2.4	112.8	112.5	-49.8	-45.2
GUAD0134	7/12/2024 8:41	53.5	40.7	0.0	5.8	124.1	124.2	-3.2	-3.3
GUAD0135	7/12/2024 9:03	54.1	40.9	0.0	5.0	127.3	127.1	-8.1	-8.1
GUAD0138	7/10/2024 10:42	32.8	28.1	0.0	39.1	94.8	94.9	-3.1	-3.1
GUAD0142	7/10/2024 11:52	51.6	32.8	0.2	15.4	103.4	103.4	-12.8	-13.5
GUAD0146	7/2/2024 10:50	54.8	41.6	0.0	3.6	129.5	129.8	-25.1	-24.7
GUAD0147	7/10/2024 12:22	50.5	37.3	0.8	11.4	115.4	115.4	-21.6	-20.9
GUAD0151	7/9/2024 12:59	55.0	39.2	0.0	5.8	124.9	124.9	-19.7	-19.6
GUAD0152	7/24/2024 10:16	55.2	36.8	0.8	7.2	108.0	108.2	-8.7	-9.0
GUAD0154	7/2/2024 10:58	37.4	57.0	0.0	5.6	103.1	103.2	-6.7	-1.9
GUAD0161	7/11/2024 10:58	54.5	38.5	0.0	7.0	124.5	124.4	-6.9	-6.8
GUAD0162	7/11/2024 10:53	55.6	42.6	0.0	1.8	127.2	127.1	-44.6	-44.6
GUAD0172	7/9/2024 12:06	53.8	39.1	0.0	7.1	113.2	113.2	-7.8	-7.8
GUAD0173	7/9/2024 12:13	53.5	40.2	0.0	6.3	126.0	125.9	-2.7	-3.4
GUAD0176	7/10/2024 12:38	47.6	37.8	0.0	14.6	106.5	106.6	-1.1	-1.0
GUAD0177	7/30/2024 10:27	58.0	39.3	0.4	2.3	90.5	90.7	-22.4	-21.9
GUAD0179	7/2/2024 9:57	36.7	33.7	0.0	29.6	112.1	113.6	-0.5	-0.5
GUAD0180	7/2/2024 10:37	53.9	42.1	0.0	4.0	109.7	109.7	-30.7	-30.8
GUAD0181	7/2/2024 9:58	54.6	43.9	0.0	1.5	123.3	124.8	-33.0	-34.7
GUAD0183	7/12/2024 9:27	50.8	39.7	0.2	9.3	84.6	83.8	-31.8	-31.2
GUAD0184	7/12/2024 12:53	52.0	39.6	0.7	7.7	123.5	123.7	-30.8	-31.8
GUAD0185	7/2/2024 11:30	53.6	41.4	0.2	4.8	129.1	128.7	-34.8	-33.6
GUAD0186	7/2/2024 13:16	52.0	40.9	0.6	6.5	111.8	111.9	-30.7	-30.1
GUAD0187	7/11/2024 12:55	49.4	46.9	0.2	3.5	111.4	111.4	-7.8	-7.8
GUAD0198	7/2/2024 9:52	49.1	37.9	0.0	13.0	126.2	126.2	-4.5	-4.5
GUAD0199	7/2/2024 9:27	52.8	39.4	0.0	7.8	129.4	129.7	-17.8	-18.4
GUAD0200	7/2/2024 9:49	59.0	40.4	0.0	0.6	129.7	129.6	-26.1	-26.1

GUAD0201	7/10/2024 13:26	47.7	39.5	1.7	11.1	116.9	116.9	-20.0	-19.8
GUAD0202	7/11/2024 10:41	52.5	38.0	0.0	9.5	123.4	123.5	-0.3	-0.3
GUAD0203	7/10/2024 12:13	53.8	41.6	0.1	4.5	113.2	113.2	-24.2	-23.9
GUAD0203	7/10/2024 12:14	54.3	42.9	0.1	2.7	107.0	108.5	-23.8	-24.6
GUAD0204	7/10/2024 12:19	48.1	38.1	2.0	11.8	92.4	92.5	-23.3	-21.9
GUAD0205	7/10/2024 13:36	52.0	42.7	0.0	5.3	123.5	121.4	-0.9	-1.2
GUAD0207	7/2/2024 9:23	51.2	37.0	0.1	11.7	128.6	129.5	-0.1	-0.2
GUAD0208	7/2/2024 9:53	47.5	39.8	0.0	12.7	128.0	128.0	-0.5	-0.5
GUAD0209	7/2/2024 10:22	51.1	42.8	0.0	6.1	125.8	125.8	-0.1	-0.1
GUAD0211	7/2/2024 10:41	47.2	42.7	0.1	10.0	129.2	128.9	-0.8	-0.8
GUAD0211	7/8/2024 16:26	CO was 0 ppm							
GUAD0211	7/9/2024 12:00	51.4	41.7	0.1	6.8	128.8	128.9	-1.7	-2.3
GUAD0211	7/9/2024 1:40	CO was 0 ppm							
GUAD0213	7/12/2024 13:17	36.2	38.5	1.1	24.2	127.4	129.1	-24.2	-23.4
GUAD0214	7/11/2024 11:02	48.9	38.3	0.0	12.8	125.8	125.8	-15.3	-14.0
GUAD0215	7/2/2024 10:51	51.0	42.7	0.2	6.1	129.5	129.1	-1.0	-1.0
GUAD0216	7/10/2024 13:41	51.8	41.8	0.0	6.4	127.9	128.0	-0.5	-1.1
GUAD0217	7/12/2024 9:45	46.9	42.8	0.0	10.3	124.9	125.7	-4.2	-4.0
GUAD0218	7/2/2024 13:08	36.1	51.1	0.1	12.7	102.9	105.0	-0.6	-0.8
GUAD0219	7/9/2024 12:19	52.9	39.7	0.0	7.4	124.2	124.1	-9.5	-9.6
GUAD0220	7/11/2024 13:03	53.9	42.5	0.0	3.6	123.3	124.5	-29.6	-34.9
GUAD0221	7/9/2024 12:25	48.1	39.2	0.0	12.7	117.4	118.6	-1.4	-1.1
GUAD0222	7/11/2024 13:54	31.5	30.1	0.2	38.2	110.4	110.3	-0.4	-0.3
GUAD0223	7/11/2024 13:32	41.4	36.6	0.0	22.0	123.2	123.2	-1.3	-1.3
GUAD0224	7/11/2024 13:26	38.0	39.1	0.0	22.9	118.4	118.4	-0.4	-0.4
GUAD0225	7/10/2024 10:51	54.1	38.7	0.0	7.2	122.1	122.2	-1.4	-1.8
GUAD0226	7/12/2024 9:10	51.0	45.4	0.0	3.6	119.1	119.1	-6.9	-7.4
GUAD0227	7/10/2024 11:56	49.5	36.5	0.0	14.0	113.5	113.4	-0.3	-0.3
GUAD0228	7/12/2024 8:51	27.6	30.2	0.0	42.2	115.5	115.8	-1.4	-1.4
GUAD0230	7/11/2024 13:57	37.3	32.5	0.0	30.2	114.0	114.1	-0.4	-0.4
GUAD0245	7/12/2024 8:36	49.9	40.9	0.0	9.2	109.2	109.2	-1.2	-1.1
GUAD0246	7/11/2024 14:27	29.5	32.8	0.0	37.7	98.6	98.4	-1.0	-1.0
GUAD0247	7/11/2024 14:16	40.5	40.1	0.1	19.3	115.2	115.2	-0.3	-0.3
GUADH11L	7/12/2024 13:50	46.0	33.6	2.8	17.6	98.6	98.6	-4.5	-4.4
GUADH12L	7/12/2024 13:59	29.2	18.9	8.0	43.9	110.6	110.7	-4.5	-4.5

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO), and may operate at up to 15.0 percent oxygen.

There are 88 total collectors (86 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 - August 1, 2, 5, 6, 7, 14, 15 and 19, 2024

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	8/1/2024 10:55	48.4	44.2	0.0	7.4	129.6	129.1	-16.4	-15.64
GDLC0189	8/15/2024 13:21	51.1	44.1	0.0	4.8	130.8	131.3	-7.4	-8.32
GDLC0190	8/16/2024 9:43	48.0	41.0	0.0	11.0	121.3	120.7	-4.1	-3.23
GDLC0191	8/15/2024 9:40	42.7	39.3	0.7	17.3	121.7	121.7	-25.2	-19.57
GDLC0192	8/6/2024 13:33	52.5	44.5	0.0	3.0	129.0	129.1	-24.0	-24
GDLC0193	8/7/2024 13:41	41.3	39.5	0.0	19.2	125.3	125.3	-8.3	-6.65
GDLC0196	8/2/2024 8:59	56.7	32.9	0.1	10.3	88.4	88.4	-1.4	-1.28
GDLC0197	8/9/2024 11:24	46.2	30.6	0.2	23.0	128.0	128.2	-6.1	-5.05
GDLC0232	8/5/2024 8:17	54.6	41.1	0.0	4.3	102.8	103.3	-4.0	-6.13
GDLC0233	8/2/2024 7:44	55.6	39.3	0.0	5.1	93.4	96.9	-10.8	-13.29
GDLC0233	8/15/2024 12:01	51.7	36.6	0.3	11.4	122.9	122.8	-33.0	-34.56
GDLC0234	8/6/2024 11:21	45.0	42.3	0.0	12.7	114.2	114.4	-2.9	-1.76
GDLC0234	8/15/2024 13:14	44.2	38.4	0.0	17.4	114.6	114.8	-0.9	-0.87
GDLC0235	8/6/2024 13:41	52.1	45.0	0.0	2.9	101.3	104.4	-29.3	-30.15
GDLC0236	8/1/2024 13:21	25.3	25.7	8.4	40.6	93.3	93.3	-0.8	-0.71
GDLC0237	8/19/2024 13:40	50.5	40.5	0.0	9.0	122.8	122.8	-35.1	-34.76
GDLC0238	8/15/2024 13:25	34.8	29.9	0.0	35.3	113.0	113.2	-0.7	-0.17
GDLC0239	8/19/2024 14:22	46.8	37.4	0.0	15.8	115.0	115.1	-3.0	-2.54
GDLC0240	8/6/2024 11:24	52.0	41.8	0.0	6.2	120.3	120.3	-4.6	-4.57
GDLC0241	8/6/2024 11:39	57.2	41.4	0.1	1.3	124.4	124.6	-10.0	-1.22
GDLC0242	8/6/2024 11:27	54.9	39.8	0.7	4.6	96.7	96.8	-7.2	-7.11
GDLC0243	8/6/2024 13:24	47.7	41.7	0.0	10.6	119.6	119.3	-4.1	-5.42
GDLC0244	8/16/2024 9:27	41.7	29.2	0.2	28.9	122.4	122.4	-2.6	-2.16
GUAD0062	8/6/2024 8:59	40.1	34.9	0.0	25.0	95.0	95.1	-19.2	-16
GUAD0066	8/5/2024 9:29	55.5	39.0	0.0	5.5	94.4	94.5	-37.4	-37.81
GUAD0081	8/14/2024 12:33	54.9	37.6	1.0	6.5	105.6	105.7	-52.2	-51.76
GUAD0082	8/14/2024 12:18	60.2	36.1	0.2	3.5	99.1	99.1	-49.8	-49.83
GUAD0112	8/5/2024 9:48	43.1	35.5	0.0	21.4	121.7	121.7	-1.0	-1.01
GUAD0114	8/19/2024 13:36	51.1	40.6	1.1	7.2	86.6	86.9	-50.7	-51.74
GUAD0122	8/9/2024 12:51	58.2	40.7	0.1	1.0	129.4	129.2	-44.1	-46.57
GUAD0124	8/15/2024 9:43	46.7	38.1	2.2	13.0	124.1	124.4	-25.7	-25.89
GUAD0129	8/6/2024 13:44	58.5	39.5	0.0	2.0	99.2	99.3	-34.2	-34.25
GUAD0131	8/7/2024 10:31	57.3	40.1	0.0	2.6	115.8	115.8	-50.2	-49.12
GUAD0134	8/6/2024 9:09	47.0	38.8	0.0	14.2	124.4	124.4	-2.6	-2.05
GUAD0135	8/16/2024 11:40	54.7	37.9	0.1	7.3	124.3	124.6	-7.5	-7.52
GUAD0138	8/5/2024 9:25	27.3	29.1	0.0	43.6	93.8	93.8	-3.0	-2.9
GUAD0142	8/21/2024 12:53	46.9	31.8	0.0	21.3	103.4	103.5	-12.2	-12.22
GUAD0142	8/21/2024 15:17	CO was 0 ppm							
GUAD0146	8/8/2024 13:17	57.4	39.8	0.1	2.7	134.1	133.5	-20.4	-19.95
GUAD0146	8/8/2024 15:36	CO was 0 ppm							
GUAD0147	8/9/2024 11:59	58.5	39.8	0.0	1.7	115.6	115.6	-20.0	-20.13
GUAD0151	8/1/2024 10:50	44.4	37.0	0.0	18.6	127.4	127.3	-18.1	-17.97
GUAD0152	8/1/2024 10:59	54.2	42.0	0.3	3.5	107.0	107.1	-4.9	-4.88
GUAD0154	8/7/2024 13:34	42.1	51.3	0.1	6.5	109.2	109.2	-3.0	-2.59
GUAD0161	8/19/2024 13:59	55.2	39.9	0.1	4.8	117.1	117.9	-7.0	-6.98
GUAD0162	8/19/2024 13:51	55.3	40.4	0.1	4.2	134.2	134.0	-46.7	-46.66
GUAD0162	8/19/2024 16:33	CO was 0 ppm							
GUAD0172	8/7/2024 10:27	47.6	36.7	0.0	15.7	113.8	113.8	-9.2	-9.23
GUAD0173	8/7/2024 10:21	46.7	36.2	0.0	17.1	126.6	127.1	-3.5	-3.4
GUAD0176	8/9/2024 11:50	49.0	40.5	0.0	10.5	108.0	108.0	-2.0	-1.4
GUAD0177	8/1/2024 11:05	56.2	42.5	0.0	1.3	111.3	111.3	-22.2	-22.12
GUAD0179	8/7/2024 9:11	32.4	32.2	0.0	35.4	113.9	113.9	-1.1	-0.97
GUAD0180	8/16/2024 12:56	52.6	42.9	0.1	4.4	117.4	117.7	-35.7	-35.79
GUAD0181	8/14/2024 8:59	55.8	41.7	0.0	2.5	129.4	129.1	-36.1	-36.05
GUAD0183	8/26/2024 9:49	52.0	40.4	0.5	7.1	122.9	122.8	-34.2	-32.55
GUAD0184	8/16/2024 9:31	54.8	42.1	0.0	3.1	123.1	122.8	-36.0	-34.55
GUAD0185	8/16/2024 11:54	51.6	38.1	0.7	9.6	121.9	121.7	-33.1	-30.96
GUAD0185	8/19/2024 13:44	48.0	38.4	1.4	12.2	130.6	130.6	-44.4	-41.51
GUAD0186	8/7/2024 13:37	30.3	41.5	0.0	28.2	111.1	111.1	-27.2	-26.88
GUAD0187	8/6/2024 13:31	49.2	46.6	0.0	4.2	111.3	111.4	-8.5	-9.89
GUAD0189	8/15/2024 15:59	CO was 0 ppm							
GUAD0198	8/7/2024 9:15	45.5	37.3	0.0	17.2	126.1	126.2	-6.4	-5.72

GUAD0199	8/16/2024 10:01	51.1	40.6	0.0	8.3	129.0	129.0	-22.6	-22.58
GUAD0200	8/1/2024 11:19	56.0	42.1	0.0	1.9	129.9	128.6	-20.5	-20.48
GUAD0201	8/15/2024 13:16	48.4	40.5	1.0	10.1	115.8	116.0	-18.5	-18.5
GUAD0202	8/19/2024 13:34	47.6	32.2	0.3	19.9	123.8	123.9	-2.3	-2.07
GUAD0203	8/9/2024 11:39	56.1	41.0	0.0	2.9	113.5	113.5	-22.3	-22.23
GUAD0204	8/15/2024 13:09	45.3	33.4	3.5	17.8	90.9	91.3	-22.3	-22.78
GUAD0205	8/15/2024 10:11	44.8	42.2	0.0	13.0	129.6	128.1	-2.0	-1.95
GUAD0207	8/16/2024 9:57	44.4	40.1	0.0	15.5	129.7	128.1	-0.5	-0.47
GUAD0208	8/1/2024 12:58	42.7	35.1	0.1	22.1	125.6	125.6	-0.7	-0.67
GUAD0209	8/9/2024 12:55	46.4	39.1	0.0	14.5	127.8	127.8	-0.9	-0.92
GUAD0211	8/16/2024 12:51	48.0	37.3	0.4	14.3	129.8	129.2	-3.4	-2.57
GUAD0213	8/15/2024 12:05	44.7	40.2	0.5	14.6	125.5	127.8	-20.5	-21.17
GUAD0214	8/19/2024 13:55	46.6	37.7	0.0	15.7	126.0	126.1	-13.5	-12.41
GUAD0215	8/14/2024 9:04	45.6	42.4	0.0	12.0	130.2	130.1	-2.8	-2.29
GUAD0216	8/14/2024 9:10	44.1	40.8	0.0	15.1	121.8	119.3	-1.9	-1.94
GUAD0217	8/15/2024 9:37	44.7	41.0	0.0	14.3	129.6	128.8	-4.0	-4.03
GUAD0218	8/6/2024 13:37	42.8	45.8	0.0	11.4	121.4	121.1	-2.5	-1.07
GUAD0219	8/7/2024 10:15	53.2	33.9	0.1	12.8	124.8	124.8	-10.4	-10.51
GUAD0220	8/6/2024 13:28	53.5	42.0	0.0	4.5	125.3	125.3	-38.6	-37.2
GUAD0221	8/7/2024 10:36	47.8	39.5	0.0	12.7	117.9	118.6	-1.2	-1.16
GUAD0222	8/6/2024 11:09	26.0	29.8	0.0	44.2	110.5	110.9	-8.8	-1.08
GUAD0223	8/6/2024 11:02	39.5	36.4	0.0	24.1	126.9	126.8	-1.8	-1.32
GUAD0224	8/6/2024 11:18	34.2	38.1	0.0	27.7	118.2	118.6	-0.9	-0.8
GUAD0225	8/5/2024 11:29	48.8	38.4	0.0	12.8	122.8	122.8	-2.3	-2.21
GUAD0226	8/6/2024 13:49	51.4	41.8	0.0	6.8	120.3	120.2	-7.9	-9.02
GUAD0227	8/5/2024 11:25	38.6	34.5	0.0	26.9	115.3	115.1	-1.1	-0.96
GUAD0228	8/6/2024 9:15	19.9	27.1	0.0	53.0	116.4	116.5	-1.3	-1.24
GUAD0230	8/6/2024 11:13	30.5	31.3	0.0	38.2	113.9	113.9	-1.2	-1.15
GUAD0245	8/6/2024 9:05	42.0	39.4	0.0	18.6	109.9	109.9	-0.5	-0.43
GUAD0246	8/6/2024 8:54	21.1	29.8	0.0	49.1	98.1	98.3	-3.3	-2.68
GUAD0247	8/6/2024 10:56	33.2	37.6	0.0	29.2	118.5	118.5	-2.0	-2.2
GUADH11L	8/14/2024 12:37	44.8	32.2	3.6	19.4	94.6	94.7	-2.0	-1.95
GUADH12L	8/2/2024 12:57	49.0	28.7	3.6	18.7	96.4	96.5	-4.4	-4.36

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO), and may operate at up to 15.0 percent oxygen.

There are 88 total collectors (86 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 - September 4, 5, 11, 18, 19, 20, and 30, 2024

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	9/23/2024 12:41	47.40	41.80	0.00	10.80	124.50	124.40	-9.75	-8.89
GDLC0189	9/23/2024 12:56	46.70	38.70	0.00	14.60	129.10	128.50	-7.69	-7.73
GDLC0190	9/25/2024 12:08	48.60	39.40	0.00	12.00	104.50	105.40	-1.47	-1.48
GDLC0191	9/23/2024 9:47	48.30	41.10	0.00	10.60	124.20	120.70	-18.23	-10.31
GDLC0192	9/19/2024 10:04	53.10	44.60	0.10	2.20	130.70	130.70	-23.39	-24.08
GDLC0193	9/18/2024 10:46	38.80	38.60	0.00	22.60	126.70	126.00	-14.53	-4.54
GDLC0196	9/25/2024 10:16	23.20	25.70	0.50	50.60	95.40	95.40	-5.70	-4.83
GDLC0197	9/11/2024 9:29	50.40	38.40	0.00	11.20	126.00	126.10	-5.70	-5.65
GDLC0197	9/19/2024 11:38	42.10	31.20	0.30	26.40	129.40	129.50	-4.35	-4.26
GDLC0232	9/25/2024 8:48	48.10	41.10	0.00	10.80	114.60	114.60	-2.19	-2.17
GDLC0233	9/25/2024 8:07	49.30	42.10	0.00	8.60	124.20	124.00	-32.47	-37.66
GDLC0234	9/19/2024 12:13	42.50	37.20	0.00	20.30	115.00	115.00	-0.25	-0.25
GDLC0234	9/25/2024 8:51	38.60	45.00	0.00	16.40	104.60	104.60	-11.76	-11.05
GDLC0235	9/18/2024 9:21	52.00	43.60	0.60	3.80	96.00	95.90	-28.52	-29.31
GDLC0236	9/26/2024 9:40	38.10	33.20	4.40	24.30	84.50	84.50	-0.45	-0.45
GDLC0237	9/26/2024 9:56	49.10	40.90	0.00	10.00	121.90	123.40	-33.29	-29.67
GDLC0238	9/23/2024 10:43	30.80	32.70	0.00	36.50	114.30	114.40	-0.13	-0.14
GDLC0239	9/19/2024 9:43	47.50	37.10	0.30	15.10	115.30	115.30	-2.94	-2.98
GDLC0240	9/19/2024 9:46	53.40	40.70	0.10	5.80	121.40	121.40	-4.93	-4.93
GDLC0241	9/23/2024 9:30	53.00	36.40	0.60	10.00	125.50	125.50	-7.84	-1.75
GDLC0242	9/19/2024 9:48	54.40	37.60	1.60	6.40	90.90	90.30	-6.64	-7.19
GDLC0243	9/19/2024 9:57	56.40	40.40	0.00	3.20	120.60	120.60	-3.79	-6.09
GDLC0244	9/25/2024 12:20	42.10	36.90	0.00	21.00	123.40	123.30	-1.44	-1.04
GUAD0062	9/9/2024 12:03	46.70	35.40	0.00	17.90	95.40	95.50	-15.14	-17.51
GUAD0066	9/4/2024 10:01	54.30	39.30	0.10	6.30	96.40	96.50	-38.40	-40.24
GUAD0081	9/20/2024 9:00	54.70	38.70	0.90	5.70	103.80	103.70	-50.72	-50.70
GUAD0082	9/20/2024 8:57	61.50	33.90	0.60	4.00	96.70	96.70	-49.82	-50.94
GUAD0082	9/25/2024 12:13	51.00	41.20	0.20	7.60	121.00	119.40	-33.47	-31.61
GUAD0112	9/4/2024 10:08	45.40	35.20	0.00	19.40	121.90	122.00	-0.41	-0.41
GUAD0114	9/26/2024 9:18	53.00	42.10	0.60	4.30	75.80	76.00	-51.53	-51.43
GUAD0122	9/19/2024 10:23	54.30	42.00	0.00	3.70	124.00	124.40	-46.43	-44.68
GUAD0124	9/23/2024 9:50	46.90	38.10	1.60	13.40	126.20	126.10	-28.83	-27.62
GUAD0129	9/23/2024 9:34	57.40	39.40	0.10	3.10	89.90	90.20	-32.56	-33.07
GUAD0131	9/25/2024 7:43	57.70	41.60	0.00	0.70	116.30	116.40	-48.49	-49.63
GUAD0134	9/9/2024 11:57	48.10	37.40	0.20	14.30	123.80	123.60	-2.59	-2.39
GUAD0135	9/23/2024 12:24	53.80	37.40	0.70	8.10	135.90	135.90	-7.59	-7.59
GUAD0138	9/4/2024 9:58	28.30	28.90	0.00	42.80	94.90	95.00	-2.63	-2.62
GUAD0142	9/4/2024 10:27	44.90	36.00	0.00	19.10	103.70	103.70	-11.94	-11.41
GUAD0146	9/19/2024 10:10	57.10	42.20	0.00	0.70	126.40	126.80	-22.18	-22.20
GUAD0147	9/26/2024 9:49	55.30	40.00	0.00	4.70	114.40	114.40	-15.22	-12.95
GUAD0151	9/23/2024 12:45	47.40	38.80	0.00	13.80	130.30	130.70	-12.08	-11.25
GUAD0152	9/26/2024 9:12	58.30	40.90	0.00	0.80	95.50	95.30	21.12	21.17
GUAD0152	9/26/2024 9:12	58.00	40.80	0.00	1.20	95.30	95.40	21.51	21.52
GUAD0154	9/18/2024 10:42	46.70	43.90	0.50	8.90	110.30	109.30	-15.61	-2.70
GUAD0161	9/25/2024 8:18	54.20	40.70	0.30	4.80	106.10	106.90	-6.57	-6.54
GUAD0162	9/25/2024 8:15	55.50	42.20	0.30	2.00	133.40	133.40	-47.45	-46.93
GUAD0172	9/25/2024 7:24	53.40	29.40	0.30	16.90	114.30	114.30	-9.10	-10.04
GUAD0173	9/25/2024 7:28	49.20	36.60	0.00	14.20	127.60	127.70	-2.93	-2.98
GUAD0176	9/26/2024 9:24	42.50	37.90	0.20	19.40	107.30	107.40	-1.28	-1.24
GUAD0177	9/25/2024 8:45	55.30	41.80	0.00	2.90	105.80	106.40	-12.67	-13.09
GUAD0179	9/11/2024 9:25	36.80	33.00	0.00	30.20	112.80	112.80	-2.69	-2.06
GUAD0179	9/25/2024 8:39	34.50	32.80	1.30	31.40	114.00	114.00	-2.06	-1.99
GUAD0180	9/19/2024 10:16	51.70	42.80	0.80	4.70	117.50	117.70	-37.61	-37.63
GUAD0181	9/23/2024 12:35	53.50	42.50	0.00	4.00	142.20	142.30	-34.54	-34.21
GUAD0181	9/30/2024 15:57	CO was 0 ppm							
GUAD0183	9/26/2024 10:10	50.70	39.00	0.50	9.80	121.20	121.40	-32.62	-36.14
GUAD0184	9/25/2024 12:17	52.60	40.70	0.20	6.50	125.30	125.00	-35.74	-34.96
GUAD0185	9/25/2024 8:10	53.20	42.60	0.20	4.00	126.00	125.80	-44.76	-44.77
GUAD0186	9/23/2024 12:26	54.50	41.40	0.00	4.10	118.40	118.50	-21.71	-22.68
GUAD0187	9/19/2024 10:02	52.10	44.10	0.00	3.80	114.00	113.80	-10.51	-14.45
GUAD0198	9/11/2024 9:20	51.60	39.90	0.00	8.50	128.30	128.30	-24.19	-24.73
GUAD0199	9/30/2024 13:12	32.40	33.40	0.00	34.20	114.60	114.60	-1.11	-0.93
GUAD0200	9/11/2024 9:15	55.10	42.00	0.00	2.90	130.10	130.30	-19.82	-19.78

GUAD0201	9/19/2024 12:15	47.70	39.50	0.90	11.90	115.80	116.00	-8.64	-9.23
GUAD0202	9/30/2024 10:06	60.00	39.70	0.30	0.00	86.50	88.70	-0.60	-0.73
GUAD0203	9/19/2024 11:56	52.90	38.90	0.20	8.00	111.00	111.40	-18.51	-18.22
GUAD0204	9/19/2024 12:03	35.00	29.30	2.60	33.10	85.80	84.10	-17.23	-16.80
GUAD0205	9/23/2024 13:00	43.60	39.50	0.60	16.30	132.70	132.20	-0.36	-0.36
GUAD0207	9/11/2024 9:12	49.30	42.40	0.00	8.30	127.10	126.80	-0.39	-0.37
GUAD0208	9/11/2024 9:05	47.30	28.80	0.60	23.30	124.00	124.20	-0.48	-0.48
GUAD0209	9/19/2024 10:20	47.70	40.70	0.00	11.60	129.70	129.00	-0.14	-0.13
GUAD0211	9/19/2024 10:14	48.30	40.80	0.00	10.90	92.80	93.60	-1.80	-1.71
GUAD0213	9/25/2024 8:04	51.30	38.30	1.00	9.40	126.70	125.10	-13.80	-23.06
GUAD0214	9/26/2024 10:03	50.00	38.20	0.50	11.30	126.90	126.90	-12.48	-12.48
GUAD0215	9/25/2024 8:24	53.40	39.80	0.00	6.80	127.20	127.20	-11.92	-12.47
GUAD0215	9/25/2024 12:04	52.60	35.70	0.40	11.30	130.70	130.50	-1.19	-1.24
GUAD0216	9/26/2024 9:45	48.20	41.30	0.00	10.50	114.10	113.20	-1.12	-1.11
GUAD0217	9/5/2024 8:16	49.40	40.60	0.10	9.90	129.10	128.60	-3.22	-3.22
GUAD0217	9/23/2024 9:43	50.40	37.90	0.40	11.30	101.10	87.70	-2.99	-3.68
GUAD0218	9/18/2024 9:25	45.60	45.80	0.00	8.60	106.40	108.20	-0.46	-0.45
GUAD0219	9/25/2024 7:34	50.10	38.40	0.00	11.50	125.80	125.80	-11.24	-11.21
GUAD0220	9/19/2024 9:59	55.20	42.50	0.00	2.30	125.60	125.50	-35.20	-34.39
GUAD0221	9/25/2024 7:39	49.60	40.50	0.00	9.90	113.00	111.90	-0.18	-0.17
GUAD0222	9/18/2024 9:05	32.90	32.00	0.00	35.10	110.20	110.40	-0.85	-0.86
GUAD0223	9/18/2024 9:01	44.40	38.20	0.00	17.40	124.20	123.90	-0.43	-0.49
GUAD0224	9/18/2024 9:14	34.40	37.50	0.00	28.10	119.10	119.10	-0.96	-0.91
GUAD0225	9/4/2024 10:13	50.40	38.60	0.00	11.00	122.60	122.60	-0.96	-0.94
GUAD0226	9/18/2024 9:17	51.30	43.30	0.00	5.40	120.60	120.70	-8.04	-10.43
GUAD0227	9/4/2024 10:17	41.40	36.20	0.00	22.40	112.60	112.40	-0.34	-0.32
GUAD0228	9/23/2024 10:30	28.60	30.30	0.00	41.10	118.60	118.60	-1.36	-1.34
GUAD0230	9/18/2024 9:08	35.30	32.90	0.00	31.80	112.80	112.80	-0.65	-0.65
GUAD0245	9/9/2024 11:53	44.60	33.80	0.20	21.40	110.10	110.20	-0.94	-0.93
GUAD0246	9/18/2024 8:50	21.70	29.10	0.00	49.20	100.00	100.00	-2.24	-2.27
GUAD0247	9/18/2024 8:55	36.00	29.70	0.60	33.70	118.10	118.10	-1.00	-1.00
GUADH11L	9/20/2024 9:05	56.60	39.80	0.60	3.00	81.90	82.00	-5.60	-5.66
GUADH12L	9/16/2024 13:41	33.70	21.00	8.10	37.20	81.40	81.40	-12.25	-16.67
GUADH12L	9/16/2024 13:44	38.00	24.50	6.10	31.40	81.60	81.60	-18.56	-20.83

Wells 114, 122, 134, 135, 146, 151, 152, 154, 161, 162, 180, 181, 185, 186, 188, 189, 193, 199, 200, 204, 205, 207, 209, 213, 215, 216, 217, and 218. Horizontal Leachate Collectors H11L, H12L are approved for less than continuous operation (LTCO), and may operate at up to 15.0 percent oxygen.

There are 88 total collectors (86 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

April 1, 2024 - September 30, 2024

REPORT PREPARED BY: Rajan Phadnis
 UPDATED DATE: 10/1/2024
 LFG MONITORING DEVICE: GEM
 MODEL: 5000
 DATE LAST CALIBRATED: Daily

Wellhead ID. Number	Date Time	Gas Composition (% by volume)				Initial Temperature(°F)	Adjusted Temperature(oF)	Initial Static Pressure ("H ₂ O)	Adjusted Static Pressure ("H ₂ O)	Comments	Duration of Exceedance As of the End of Reporting Period (Days)
		CH ₄	CO ₂	O ₂	Balance						
GUAD0223	4/15/2024 9:18	45.3	38.3	0.0	16.4	100.0	113.1	-0.1	0.0	Barely Open;No Adj. Made	
GUAD0223	4/16/2024 7:48	48.1	37.7	0.2	14.0	119.1	119.1	-0.8	-0.8	NSPS/EG CAI;Barely Open;No Adj. Made	1
Well GUAD0223 had pressure exceedance during initial monitoring. Exceedance was corrected the next day.											
GUAD0211	6/7/2024 8:10	46.7	17	0.1	36.2	131.2	131.1	-3.2	-2.4	Dec. Flow/Vac.	
GUAD0211	6/10/2024 11:59	CO was 0 ppm									
GUAD0211	6/10/2024 11:59	47.3	40.4	0.5	11.8	126.2	126.2	-1.64	-1.61	NSPS/EG CAI;No Adj. Made	3
Well GUAD0211 had temperature exceedance during June monitoring event. CO reading was below 100 ppm. HOV request letter was submitted to BAAQMD on July 12, 2024, requesting to add Well GUAD0211 to the list of existing HOV wells.											
GUAD0129	6/14/2024 13:23	35.0	23.6	8.3	33.1	86.8	86.8	-0.3	-0.3	Dec. Flow/Vac.;Surging	
GUAD0129	6/17/2024 10:37	61.9	37.7	0.0	0.4	82.0	82.0	0.7	0.7	NSPS/EG CAI;Pinched	3
GUAD0129	6/17/2024 10:44	61.4	37.8	0.0	0.8	82.9	82.9	2.7	2.7	NSPS/EG CAI	
GUAD0129	6/27/2024 13:54	61.7	37.5	0.0	0.8	96.8	96.7	-17.5	-16.2	Fully Open;No Adj. Made	10
Well GUAD0129 had oxygen exceedance during June monitoring event. Well GUAD0129 had pressure exceedance during June monitoring event. New lateral was installed. Exceedance was corrected within 15 days of initial reading.											
GDLC0236	7/30/2024 10:13	5.9	5.8	17.6	70.7	79.2	79.0	-11.5	-0.7	NSPS/EG CAI;Barely Open;No Adj. Made	
GDLC0236	7/30/2024 10:14	0.6	2.4	19.8	77.2	78.7	78.8	-0.6	-0.6	NSPS/EG CAI;Pinched	
GDLC0236	8/1/2024 13:21	25.3	25.7	8.4	40.6	93.3	93.3	-0.8	-0.7	Dec. Flow/Vac.	
GDLC0236	9/26/2024 9:40	38.1	33.2	4.4	24.3	84.5	84.5	-0.5	-0.5	Fully Open;Surging	58
Well GDLC0236 had oxygen exceedance during intial monitoring in July and August 2024.											
GUAD0152	9/26/2024 9:12	58.3	40.9	0.0	0.8	95.5	95.3	21.1	21.2	NSPS/EG CAI;Pinched	
GUAD0152	9/26/2024 9:12	58.0	40.8	0.0	1.2	95.3	95.4	21.5	21.5	NSPS/EG CAI;No Adj. Made	>4
Well GUAD0152 had pressure exceedance during intial monitoring in September 2024. Repairs scheduled.											

%= 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

April 1, 2024 - September 30, 2024 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 ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Total MMBTU
April 2024	720.0	720.0	0.0	0	49.9	0	0	0
May 2024	744.0	744.0	0.0	0	49.9	0	0	0
June 2024	720.0	720.0	0.0	0	49.9	0	0	0
July 2024	744.0	744.0	0.0	0	49.9	0	0	0
August 2024	744.0	744.0	0.0	0	49.9	0	0	0
September 2024	720.0	720.0	0.0	0	49.9	0	0	0
April 1, 2024 - September 30, 2024 Totals/Avg:	4,392.0	4,392.0	0.0	0.0	49.9	0.0	0.0	0.0
Partial 2024 TOTALS/ AVERAGE :	6,575.0	6,575.0	0.0	0	49.9	0.0	0.0	0.0

Notes:

*Starting June 24, 2020 methane content determined from flare A-9 April 29, 2020 source test results.

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

April-24

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
4/1/2024	0.0	49.9	0	0	0	1,013.0	0
4/2/2024	0.0	49.9	0	0	0	1,013.0	0
4/3/2024	0.0	49.9	0	0	0	1,013.0	0
4/4/2024	0.0	49.9	0	0	0	1,013.0	0
4/5/2024	0.0	49.9	0	0	0	1,013.0	0
4/6/2024	0.0	49.9	0	0	0	1,013.0	0
4/7/2024	0.0	49.9	0	0	0	1,013.0	0
4/8/2024	0.0	49.9	0	0	0	1,013.0	0
4/9/2024	0.0	49.9	0	0	0	1,013.0	0
4/10/2024	0.0	49.9	0	0	0	1,013.0	0
4/11/2024	0.0	49.9	0	0	0	1,013.0	0
4/12/2024	0.0	49.9	0	0	0	1,013.0	0
4/13/2024	0.0	49.9	0	0	0	1,013.0	0
4/14/2024	0.0	49.9	0	0	0	1,013.0	0
4/15/2024	0.0	49.9	0	0	0	1,013.0	0
4/16/2024	0.0	49.9	0	0	0	1,013.0	0
4/17/2024	0.0	49.9	0	0	0	1,013.0	0
4/18/2024	0.0	49.9	0	0	0	1,013.0	0
4/19/2024	0.0	49.9	0	0	0	1,013.0	0
4/20/2024	0.0	49.9	0	0	0	1,013.0	0
4/21/2024	0.0	49.9	0	0	0	1,013.0	0
4/22/2024	0.0	49.9	0	0	0	1,013.0	0
4/23/2024	0.0	49.9	0	0	0	1,013.0	0
4/24/2024	0.0	49.9	0	0	0	1,013.0	0
4/25/2024	0.0	49.9	0	0	0	1,013.0	0
4/26/2024	0.0	49.9	0	0	0	1,013.0	0
4/27/2024	0.0	49.9	0	0	0	1,013.0	0
4/28/2024	0.0	49.9	0	0	0	1,013.0	0
4/29/2024	0.0	49.9	0	0	0	1,013.0	0
4/30/2024	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
Notes:						Maximum:	0

*Methane content determined from the the April 28, 2020 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

May-24

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
5/1/2024	0.0	49.9	0	0	0	1,013.0	0
5/2/2024	0.0	49.9	0	0	0	1,013.0	0
5/3/2024	0.0	49.9	0	0	0	1,013.0	0
5/4/2024	0.0	49.9	0	0	0	1,013.0	0
5/5/2024	0.0	49.9	0	0	0	1,013.0	0
5/6/2024	0.0	49.9	0	0	0	1,013.0	0
5/7/2024	0.0	49.9	0	0	0	1,013.0	0
5/8/2024	0.0	49.9	0	0	0	1,013.0	0
5/9/2024	0.0	49.9	0	0	0	1,013.0	0
5/10/2024	0.0	49.9	0	0	0	1,013.0	0
5/11/2024	0.0	49.9	0	0	0	1,013.0	0
5/12/2024	0.0	49.9	0	0	0	1,013.0	0
5/13/2024	0.0	49.9	0	0	0	1,013.0	0
5/14/2024	0.0	49.9	0	0	0	1,013.0	0
5/15/2024	0.0	49.9	0	0	0	1,013.0	0
5/16/2024	0.0	49.9	0	0	0	1,013.0	0
5/17/2024	0.0	49.9	0	0	0	1,013.0	0
5/18/2024	0.0	49.9	0	0	0	1,013.0	0
5/19/2024	0.0	49.9	0	0	0	1,013.0	0
5/20/2024	0.0	49.9	0	0	0	1,013.0	0
5/21/2024	0.0	49.9	0	0	0	1,013.0	0
5/22/2024	0.0	49.9	0	0	0	1,013.0	0
5/23/2024	0.0	49.9	0	0	0	1,013.0	0
5/24/2024	0.0	49.9	0	0	0	1,013.0	0
5/25/2024	0.0	49.9	0	0	0	1,013.0	0
5/26/2024	0.0	49.9	0	0	0	1,013.0	0
5/27/2024	0.0	49.9	0	0	0	1,013.0	0
5/28/2024	0.0	49.9	0	0	0	1,013.0	0
5/29/2024	0.0	49.9	0	0	0	1,013.0	0
5/30/2024	0.0	49.9	0	0	0	1,013.0	0
5/31/2024	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
Notes:						Maximum:	0

*Methane content determined from the the April 28, 2020 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

June-24

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
6/1/2024	0.0	49.9	0	0	0	1,013.0	0
6/2/2024	0.0	49.9	0	0	0	1,013.0	0
6/3/2024	0.0	49.9	0	0	0	1,013.0	0
6/4/2024	0.0	49.9	0	0	0	1,013.0	0
6/5/2024	0.0	49.9	0	0	0	1,013.0	0
6/6/2024	0.0	49.9	0	0	0	1,013.0	0
6/7/2024	0.0	49.9	0	0	0	1,013.0	0
6/8/2024	0.0	49.9	0	0	0	1,013.0	0
6/9/2024	0.0	49.9	0	0	0	1,013.0	0
6/10/2024	0.0	49.9	0	0	0	1,013.0	0
6/11/2024	0.0	49.9	0	0	0	1,013.0	0
6/12/2024	0.0	49.9	0	0	0	1,013.0	0
6/13/2024	0.0	49.9	0	0	0	1,013.0	0
6/14/2024	0.0	49.9	0	0	0	1,013.0	0
6/15/2024	0.0	49.9	0	0	0	1,013.0	0
6/16/2024	0.0	49.9	0	0	0	1,013.0	0
6/17/2024	0.0	49.9	0	0	0	1,013.0	0
6/18/2024	0.0	49.9	0	0	0	1,013.0	0
6/19/2024	0.0	49.9	0	0	0	1,013.0	0
6/20/2024	0.0	49.9	0	0	0	1,013.0	0
6/21/2024	0.0	49.9	0	0	0	1,013.0	0
6/22/2024	0.0	49.9	0	0	0	1,013.0	0
6/23/2024	0.0	49.9	0	0	0	1,013.0	0
6/24/2024	0.0	49.9	0	0	0	1,013.0	0
6/25/2024	0.0	49.9	0	0	0	1,013.0	0
6/26/2024	0.0	49.9	0	0	0	1,013.0	0
6/27/2024	0.0	49.9	0	0	0	1,013.0	0
6/28/2024	0.0	49.9	0	0	0	1,013.0	0
6/29/2024	0.0	49.9	0	0	0	1,013.0	0
6/30/2024	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
Notes:						Maximum:	0

*Methane content determined from the the April 28, 2020 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

July-24

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
7/1/2024	0.0	49.9	0	0	0	1,013.0	0
7/2/2024	0.0	49.9	0	0	0	1,013.0	0
7/3/2024	0.0	49.9	0	0	0	1,013.0	0
7/4/2024	0.0	49.9	0	0	0	1,013.0	0
7/5/2024	0.0	49.9	0	0	0	1,013.0	0
7/6/2024	0.0	49.9	0	0	0	1,013.0	0
7/7/2024	0.0	49.9	0	0	0	1,013.0	0
7/8/2024	0.0	49.9	0	0	0	1,013.0	0
7/9/2024	0.0	49.9	0	0	0	1,013.0	0
7/10/2024	0.0	49.9	0	0	0	1,013.0	0
7/11/2024	0.0	49.9	0	0	0	1,013.0	0
7/12/2024	0.0	49.9	0	0	0	1,013.0	0
7/13/2024	0.0	49.9	0	0	0	1,013.0	0
7/14/2024	0.0	49.9	0	0	0	1,013.0	0
7/15/2024	0.0	49.9	0	0	0	1,013.0	0
7/16/2024	0.0	49.9	0	0	0	1,013.0	0
7/17/2024	0.0	49.9	0	0	0	1,013.0	0
7/18/2024	0.0	49.9	0	0	0	1,013.0	0
7/19/2024	0.0	49.9	0	0	0	1,013.0	0
7/20/2024	0.0	49.9	0	0	0	1,013.0	0
7/21/2024	0.0	49.9	0	0	0	1,013.0	0
7/22/2024	0.0	49.9	0	0	0	1,013.0	0
7/23/2024	0.0	49.9	0	0	0	1,013.0	0
7/24/2024	0.0	49.9	0	0	0	1,013.0	0
7/25/2024	0.0	49.9	0	0	0	1,013.0	0
7/26/2024	0.0	49.9	0	0	0	1,013.0	0
7/27/2024	0.0	49.9	0	0	0	1,013.0	0
7/28/2024	0.0	49.9	0	0	0	1,013.0	0
7/29/2024	0.0	49.9	0	0	0	1,013.0	0
7/30/2024	0.0	49.9	0	0	0	1,013.0	0
7/31/2024	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
Notes:						Maximum:	0

*Methane content determined from the the April 28, 2020 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

August-24

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
8/1/2024	0.0	49.9	0	0	0	1,013.0	0
8/2/2024	0.0	49.9	0	0	0	1,013.0	0
8/3/2024	0.0	49.9	0	0	0	1,013.0	0
8/4/2024	0.0	49.9	0	0	0	1,013.0	0
8/5/2024	0.0	49.9	0	0	0	1,013.0	0
8/6/2024	0.0	49.9	0	0	0	1,013.0	0
8/7/2024	0.0	49.9	0	0	0	1,013.0	0
8/8/2024	0.0	49.9	0	0	0	1,013.0	0
8/9/2024	0.0	49.9	0	0	0	1,013.0	0
8/10/2024	0.0	49.9	0	0	0	1,013.0	0
8/11/2024	0.0	49.9	0	0	0	1,013.0	0
8/12/2024	0.0	49.9	0	0	0	1,013.0	0
8/13/2024	0.0	49.9	0	0	0	1,013.0	0
8/14/2024	0.0	49.9	0	0	0	1,013.0	0
8/15/2024	0.0	49.9	0	0	0	1,013.0	0
8/16/2024	0.0	49.9	0	0	0	1,013.0	0
8/17/2024	0.0	49.9	0	0	0	1,013.0	0
8/18/2024	0.0	49.9	0	0	0	1,013.0	0
8/19/2024	0.0	49.9	0	0	0	1,013.0	0
8/20/2024	0.0	49.9	0	0	0	1,013.0	0
8/21/2024	0.0	49.9	0	0	0	1,013.0	0
8/22/2024	0.0	49.9	0	0	0	1,013.0	0
8/23/2024	0.0	49.9	0	0	0	1,013.0	0
8/24/2024	0.0	49.9	0	0	0	1,013.0	0
8/25/2024	0.0	49.9	0	0	0	1,013.0	0
8/26/2024	0.0	49.9	0	0	0	1,013.0	0
8/27/2024	0.0	49.9	0	0	0	1,013.0	0
8/28/2024	0.0	49.9	0	0	0	1,013.0	0
8/29/2024	0.0	49.9	0	0	0	1,013.0	0
8/30/2024	0.0	49.9	0	0	0	1,013.0	0
8/31/2024	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
Notes:						Maximum:	0

*Methane content determined from the the April 28, 2020 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate

Flare A-9

MONTH:

September-24

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
9/1/2024	0.0	49.9	0	0	0	1,013.0	0
9/2/2024	0.0	49.9	0	0	0	1,013.0	0
9/3/2024	0.0	49.9	0	0	0	1,013.0	0
9/4/2024	0.0	49.9	0	0	0	1,013.0	0
9/5/2024	0.0	49.9	0	0	0	1,013.0	0
9/6/2024	0.0	49.9	0	0	0	1,013.0	0
9/7/2024	0.0	49.9	0	0	0	1,013.0	0
9/8/2024	0.0	49.9	0	0	0	1,013.0	0
9/9/2024	0.0	49.9	0	0	0	1,013.0	0
9/10/2024	0.0	49.9	0	0	0	1,013.0	0
9/11/2024	0.0	49.9	0	0	0	1,013.0	0
9/12/2024	0.0	49.9	0	0	0	1,013.0	0
9/13/2024	0.0	49.9	0	0	0	1,013.0	0
9/14/2024	0.0	49.9	0	0	0	1,013.0	0
9/15/2024	0.0	49.9	0	0	0	1,013.0	0
9/16/2024	0.0	49.9	0	0	0	1,013.0	0
9/17/2024	0.0	49.9	0	0	0	1,013.0	0
9/18/2024	0.0	49.9	0	0	0	1,013.0	0
9/19/2024	0.0	49.9	0	0	0	1,013.0	0
9/20/2024	0.0	49.9	0	0	0	1,013.0	0
9/21/2024	0.0	49.9	0	0	0	1,013.0	0
9/22/2024	0.0	49.9	0	0	0	1,013.0	0
9/23/2024	0.0	49.9	0	0	0	1,013.0	0
9/24/2024	0.0	49.9	0	0	0	1,013.0	0
9/25/2024	0.0	49.9	0	0	0	1,013.0	0
9/26/2024	0.0	49.9	0	0	0	1,013.0	0
9/27/2024	0.0	49.9	0	0	0	1,013.0	0
9/28/2024	0.0	49.9	0	0	0	1,013.0	0
9/29/2024	0.0	49.9	0	0	0	1,013.0	0
9/30/2024	0.0	49.9	0	0	0	1,013.0	0
Totals/ Average:	0.0	49.9	0	0	0	1013.0	0
Notes:						Maximum:	0

*Methane content determined from the the April 28, 2020 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

CH₄= methane

April 1, 2024 - September 30, 2024 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 ₄ (%)*	Total LFG Volume (scf)	Total CH ₄ Volume (scf)	Total MMBTU
April 2024	720.0	1.2	718.8	1,809	43.2	78,026,808	33,707,581	34,146
May 2024	744.0	0.0	744.0	1,803	43.2	80,482,049	34,768,245	35,220
June 2024	720.0	5.6	714.4	1,809	43.2	77,543,622	33,498,845	33,934
July 2024	744.0	51.0	693.0	2,011	43.2	83,571,356	36,102,826	36,572
August 2024	744.0	18.7	725.3	1,883	43.2	81,748,425	35,315,320	35,774
September 2024	720.0	3.1	716.9	1,771	43.2	76,171,979	32,906,295	33,334
April 1, 2024 - September 30, 2024 Totals/Avg:	4,392.0	79.7	4,312.3	1,848	43.2	477,544,239	206,299,111	208,981
Partial 2024 TOTALS/ AVERAGE :	6,575.0	96.7	6,478.3	1,803	43.9	700,009,286	306,985,976	310,977

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 March 2024, Methane content determined from flare A-17 February 1, 2024 source test results.

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate **Flare A-17**

MONTH: **April-24**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
4/1/2024	24.0	43.2	1,728	2,487,940	1,074,790	1,013.0	1,089
4/2/2024	24.0	43.2	1,775	2,555,385	1,103,926	1,013.0	1,118
4/3/2024	24.0	43.2	1,805	2,598,741	1,122,656	1,013.0	1,137
4/4/2024	24.0	43.2	1,770	2,549,361	1,101,324	1,013.0	1,116
4/5/2024	24.0	43.2	1,754	2,525,124	1,090,854	1,013.0	1,105
4/6/2024	24.0	43.2	1,755	2,526,572	1,091,479	1,013.0	1,106
4/7/2024	24.0	43.2	1,766	2,542,594	1,098,401	1,013.0	1,113
4/8/2024	24.0	43.2	1,761	2,536,227	1,095,650	1,013.0	1,110
4/9/2024	22.8	43.2	1,816	2,480,987	1,071,786	1,013.0	1,086
4/10/2024	24.0	43.2	1,896	2,730,487	1,179,570	1,013.0	1,195
4/11/2024	24.0	43.2	1,844	2,655,614	1,147,225	1,013.0	1,162
4/12/2024	24.0	43.2	1,800	2,591,376	1,119,474	1,013.0	1,134
4/13/2024	24.0	43.2	1,727	2,486,572	1,074,199	1,013.0	1,088
4/14/2024	24.0	43.2	1,727	2,486,217	1,074,046	1,013.0	1,088
4/15/2024	24.0	43.2	1,759	2,532,779	1,094,161	1,013.0	1,108
4/16/2024	24.0	43.2	1,762	2,537,600	1,096,243	1,013.0	1,110
4/17/2024	24.0	43.2	1,777	2,559,265	1,105,602	1,013.0	1,120
4/18/2024	24.0	43.2	1,809	2,605,142	1,125,421	1,013.0	1,140
4/19/2024	24.0	43.2	1,858	2,675,639	1,155,876	1,013.0	1,171
4/20/2024	24.0	43.2	1,868	2,690,140	1,162,140	1,013.0	1,177
4/21/2024	24.0	43.2	1,884	2,713,621	1,172,284	1,013.0	1,188
4/22/2024	24.0	43.2	1,888	2,718,867	1,174,551	1,013.0	1,190
4/23/2024	24.0	43.2	1,837	2,645,074	1,142,672	1,013.0	1,158
4/24/2024	24.0	43.2	1,839	2,648,361	1,144,092	1,013.0	1,159
4/25/2024	24.0	43.2	1,842	2,652,716	1,145,973	1,013.0	1,161
4/26/2024	24.0	43.2	1,846	2,658,051	1,148,278	1,013.0	1,163
4/27/2024	24.0	43.2	1,849	2,662,313	1,150,119	1,013.0	1,165
4/28/2024	24.0	43.2	1,847	2,659,901	1,149,077	1,013.0	1,164
4/29/2024	24.0	43.2	1,850	2,664,064	1,150,876	1,013.0	1,166
4/30/2024	24.0	43.2	1,840	2,650,078	1,144,834	1,013.0	1,160
Totals/ Average:	718.77	43.2	1,809	78,026,808	33,707,581	1013.0	34,146
Notes:						Maximum:	1,195

*Methane content determined from flare A-17 February 1, 2024 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate **Flare A-17**

MONTH: **May-24**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
5/1/2024	24.0	43.2	1,829	2,633,414	1,137,635	1,013.0	1,152
5/2/2024	24.0	43.2	1,763	2,538,273	1,096,534	1,013.0	1,111
5/3/2024	24.0	43.2	1,745	2,513,046	1,085,636	1,013.0	1,100
5/4/2024	24.0	43.2	1,692	2,436,824	1,052,708	1,013.0	1,066
5/5/2024	24.0	43.2	1,698	2,445,000	1,056,240	1,013.0	1,070
5/6/2024	24.0	43.2	1,720	2,476,424	1,069,815	1,013.0	1,084
5/7/2024	24.0	43.2	1,738	2,502,321	1,081,003	1,013.0	1,095
5/8/2024	24.0	43.2	1,748	2,517,126	1,087,398	1,013.0	1,102
5/9/2024	24.0	43.2	1,751	2,521,145	1,089,135	1,013.0	1,103
5/10/2024	24.0	43.2	1,757	2,529,644	1,092,806	1,013.0	1,107
5/11/2024	24.0	43.2	1,755	2,526,943	1,091,639	1,013.0	1,106
5/12/2024	24.0	43.2	1,743	2,509,977	1,084,310	1,013.0	1,098
5/13/2024	24.0	43.2	1,750	2,520,218	1,088,734	1,013.0	1,103
5/14/2024	24.0	43.2	1,756	2,528,593	1,092,352	1,013.0	1,107
5/15/2024	24.0	43.2	1,791	2,578,565	1,113,940	1,013.0	1,128
5/16/2024	24.0	43.2	1,850	2,663,827	1,150,773	1,013.0	1,166
5/17/2024	24.0	43.2	1,855	2,671,491	1,154,084	1,013.0	1,169
5/18/2024	24.0	43.2	1,851	2,665,038	1,151,296	1,013.0	1,166
5/19/2024	24.0	43.2	1,840	2,650,039	1,144,817	1,013.0	1,160
5/20/2024	24.0	43.2	1,832	2,638,041	1,139,634	1,013.0	1,154
5/21/2024	24.0	43.2	1,836	2,644,339	1,142,354	1,013.0	1,157
5/22/2024	24.0	43.2	1,846	2,658,675	1,148,548	1,013.0	1,163
5/23/2024	24.0	43.2	1,846	2,657,869	1,148,199	1,013.0	1,163
5/24/2024	24.0	43.2	1,843	2,653,814	1,146,448	1,013.0	1,161
5/25/2024	24.0	43.2	1,838	2,646,125	1,143,126	1,013.0	1,158
5/26/2024	24.0	43.2	1,850	2,663,573	1,150,664	1,013.0	1,166
5/27/2024	24.0	43.2	1,845	2,657,482	1,148,032	1,013.0	1,163
5/28/2024	24.0	43.2	1,866	2,687,432	1,160,971	1,013.0	1,176
5/29/2024	24.0	43.2	1,882	2,710,648	1,171,000	1,013.0	1,186
5/30/2024	24.0	43.2	1,890	2,720,967	1,175,458	1,013.0	1,191
5/31/2024	24.0	43.2	1,886	2,715,176	1,172,956	1,013.0	1,188
Totals/ Average:	744.00	43.2	1,803	80,482,049	34,768,245	1013.0	35,220
Notes:						Maximum:	1,191

*Methane content determined from flare A-17 February 1, 2024 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate **Flare A-17**

MONTH: **June-24**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
6/1/2024	24.0	43.2	1,857	2,674,101	1,155,212	1,013.0	1,170
6/2/2024	24.0	43.2	1,859	2,677,188	1,156,545	1,013.0	1,172
6/3/2024	24.0	43.2	1,837	2,644,975	1,142,629	1,013.0	1,157
6/4/2024	24.0	43.2	1,850	2,664,191	1,150,931	1,013.0	1,166
6/5/2024	24.0	43.2	1,904	2,742,471	1,184,747	1,013.0	1,200
6/6/2024	24.0	43.2	1,899	2,735,048	1,181,541	1,013.0	1,197
6/7/2024	24.0	43.2	1,866	2,687,529	1,161,013	1,013.0	1,176
6/8/2024	24.0	43.2	1,829	2,633,971	1,137,875	1,013.0	1,153
6/9/2024	24.0	43.2	1,812	2,609,850	1,127,455	1,013.0	1,142
6/10/2024	24.0	43.2	1,811	2,608,136	1,126,715	1,013.0	1,141
6/11/2024	24.0	43.2	1,805	2,598,504	1,122,554	1,013.0	1,137
6/12/2024	24.0	43.2	1,794	2,583,112	1,115,904	1,013.0	1,130
6/13/2024	24.0	43.2	1,785	2,570,111	1,110,288	1,013.0	1,125
6/14/2024	24.0	43.2	1,776	2,556,897	1,104,580	1,013.0	1,119
6/15/2024	24.0	43.2	1,779	2,561,862	1,106,724	1,013.0	1,121
6/16/2024	24.0	43.2	1,782	2,565,734	1,108,397	1,013.0	1,123
6/17/2024	24.0	43.2	1,792	2,580,732	1,114,876	1,013.0	1,129
6/18/2024	24.0	43.2	1,796	2,585,970	1,117,139	1,013.0	1,132
6/19/2024	24.0	43.2	1,772	2,551,957	1,102,445	1,013.0	1,117
6/20/2024	24.0	43.2	1,759	2,532,777	1,094,160	1,013.0	1,108
6/21/2024	24.0	43.2	1,782	2,566,608	1,108,775	1,013.0	1,123
6/22/2024	24.0	43.2	1,778	2,560,058	1,105,945	1,013.0	1,120
6/23/2024	24.0	43.2	1,780	2,562,963	1,107,200	1,013.0	1,122
6/24/2024	24.0	43.2	1,805	2,598,839	1,122,698	1,013.0	1,137
6/25/2024	24.0	43.2	1,805	2,599,320	1,122,906	1,013.0	1,138
6/26/2024	24.0	43.2	1,791	2,579,489	1,114,339	1,013.0	1,129
6/27/2024	24.0	43.2	1,788	2,574,386	1,112,135	1,013.0	1,127
6/28/2024	24.0	43.2	1,802	2,594,807	1,120,957	1,013.0	1,136
6/29/2024	24.0	43.2	1,784	2,569,283	1,109,930	1,013.0	1,124
6/30/2024	18.4	43.2	1,787	1,972,753	852,229	1,013.0	863
Totals/ Average:	714.40	43.2	1,809	77,543,622	33,498,845	1013.0	33,934
Notes:						Maximum:	1,200

*Methane content determined from flare A-17 February 1, 2024 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate **Flare A-17**

MONTH: **July-24**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
7/1/2024	17.2	43.2	2,092	2,163,393	934,586	1,013.0	947
7/2/2024	24.0	43.2	2,029	2,921,049	1,261,893	1,013.0	1,278
7/3/2024	24.0	43.2	2,016	2,903,738	1,254,415	1,013.0	1,271
7/4/2024	24.0	43.2	1,993	2,870,345	1,239,989	1,013.0	1,256
7/5/2024	24.0	43.2	1,979	2,849,592	1,231,024	1,013.0	1,247
7/6/2024	2.8	43.2	2,030	345,163	149,110	1,013.0	151
7/7/2024	4.7	43.2	1,985	559,708	241,794	1,013.0	245
7/8/2024	24.0	43.2	2,076	2,989,197	1,291,333	1,013.0	1,308
7/9/2024	24.0	43.2	2,023	2,912,638	1,258,260	1,013.0	1,275
7/10/2024	24.0	43.2	2,034	2,928,332	1,265,039	1,013.0	1,281
7/11/2024	24.0	43.2	2,047	2,947,667	1,273,392	1,013.0	1,290
7/12/2024	24.0	43.2	2,044	2,942,691	1,271,243	1,013.0	1,288
7/13/2024	24.0	43.2	1,989	2,864,148	1,237,312	1,013.0	1,253
7/14/2024	24.0	43.2	1,977	2,847,550	1,230,142	1,013.0	1,246
7/15/2024	21.8	43.2	2,023	2,649,505	1,144,586	1,013.0	1,159
7/16/2024	24.0	43.2	2,047	2,947,793	1,273,447	1,013.0	1,290
7/17/2024	23.8	43.2	2,061	2,939,254	1,269,758	1,013.0	1,286
7/18/2024	24.0	43.2	2,056	2,960,800	1,279,066	1,013.0	1,296
7/19/2024	24.0	43.2	2,035	2,930,905	1,266,151	1,013.0	1,283
7/20/2024	24.0	43.2	1,999	2,878,661	1,243,582	1,013.0	1,260
7/21/2024	24.0	43.2	1,976	2,845,974	1,229,461	1,013.0	1,245
7/22/2024	24.0	43.2	1,984	2,856,910	1,234,185	1,013.0	1,250
7/23/2024	24.0	43.2	1,984	2,857,458	1,234,422	1,013.0	1,250
7/24/2024	22.6	43.2	2,048	2,777,286	1,199,788	1,013.0	1,215
7/25/2024	24.0	43.2	2,044	2,942,868	1,271,319	1,013.0	1,288
7/26/2024	24.0	43.2	2,018	2,905,915	1,255,355	1,013.0	1,272
7/27/2024	24.0	43.2	1,953	2,812,141	1,214,845	1,013.0	1,231
7/28/2024	24.0	43.2	1,948	2,804,482	1,211,536	1,013.0	1,227
7/29/2024	24.0	43.2	1,941	2,795,123	1,207,493	1,013.0	1,223
7/30/2024	24.0	43.2	1,943	2,798,559	1,208,977	1,013.0	1,225
7/31/2024	24.0	43.2	1,960	2,822,511	1,219,325	1,013.0	1,235
Totals/ Average:	692.97	43.2	2,011	83,571,356	36,102,826	1013.0	36,572
Notes:						Maximum:	1,308

*Methane content determined from flare A-17 February 15, 2023 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate **Flare A-17**

MONTH: **August-24**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
8/1/2024	24.0	43.2	1,937	2,789,307	1,204,981	1,013.0	1,221
8/2/2024	24.0	43.2	1,929	2,777,355	1,199,817	1,013.0	1,215
8/3/2024	24.0	43.2	1,932	2,782,163	1,201,894	1,013.0	1,218
8/4/2024	24.0	43.2	1,913	2,755,059	1,190,185	1,013.0	1,206
8/5/2024	24.0	43.2	1,928	2,776,164	1,199,303	1,013.0	1,215
8/6/2024	24.0	43.2	1,930	2,779,492	1,200,741	1,013.0	1,216
8/7/2024	20.6	43.2	1,917	2,369,563	1,023,651	1,013.0	1,037
8/8/2024	9.8	43.2	2,111	1,237,192	534,467	1,013.0	541
8/9/2024	24.0	43.2	1,995	2,872,311	1,240,838	1,013.0	1,257
8/10/2024	24.0	43.2	1,944	2,799,470	1,209,371	1,013.0	1,225
8/11/2024	24.0	43.2	1,904	2,742,310	1,184,678	1,013.0	1,200
8/12/2024	24.0	43.2	1,900	2,736,391	1,182,121	1,013.0	1,197
8/13/2024	24.0	43.2	1,881	2,709,262	1,170,401	1,013.0	1,186
8/14/2024	24.0	43.2	1,877	2,702,718	1,167,574	1,013.0	1,183
8/15/2024	24.0	43.2	1,876	2,701,460	1,167,031	1,013.0	1,182
8/16/2024	24.0	43.2	1,869	2,690,683	1,162,375	1,013.0	1,177
8/17/2024	24.0	43.2	1,835	2,642,771	1,141,677	1,013.0	1,157
8/18/2024	24.0	43.2	1,839	2,648,340	1,144,083	1,013.0	1,159
8/19/2024	24.0	43.2	1,841	2,650,434	1,144,987	1,013.0	1,160
8/20/2024	24.0	43.2	1,838	2,646,558	1,143,313	1,013.0	1,158
8/21/2024	24.0	43.2	1,842	2,652,792	1,146,006	1,013.0	1,161
8/22/2024	24.0	43.2	1,818	2,617,983	1,130,969	1,013.0	1,146
8/23/2024	24.0	43.2	1,800	2,591,280	1,119,433	1,013.0	1,134
8/24/2024	24.0	43.2	1,805	2,599,315	1,122,904	1,013.0	1,138
8/25/2024	24.0	43.2	1,807	2,601,581	1,123,883	1,013.0	1,138
8/26/2024	24.0	43.2	1,835	2,642,376	1,141,506	1,013.0	1,156
8/27/2024	24.0	43.2	1,834	2,640,645	1,140,759	1,013.0	1,156
8/28/2024	23.0	43.2	1,882	2,593,121	1,120,228	1,013.0	1,135
8/29/2024	24.0	43.2	1,878	2,703,894	1,168,082	1,013.0	1,183
8/30/2024	24.0	43.2	1,855	2,671,110	1,153,920	1,013.0	1,169
8/31/2024	24.0	43.2	1,823	2,625,325	1,134,140	1,013.0	1,149
Totals/ Average:	725.33	43.2	1,883	81,748,425	35,315,320	1013.0	35,774
Notes:						Maximum:	1,257

*Methane content determined from flare A-17 February 1, 2024 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

CH₄= methane

Guadalupe Recycling & Disposal Facility

San Jose, CA

Heat Input Rate **Flare A-17**

MONTH: **September-24**

Date	Runtime (hours)	CH ₄ (%)*	Average Flow (scfm)	Total LFG Volume (scf)	CH ₄ Volume (scf)	Heating Value of CH ₄ (BTU/scf)	Heat Input (MMBTU)/Day
9/1/2024	24.0	43.2	1,801	2,593,197	1,120,261	1,013.0	1,135
9/2/2024	24.0	43.2	1,795	2,585,390	1,116,888	1,013.0	1,131
9/3/2024	24.0	43.2	1,806	2,600,762	1,123,529	1,013.0	1,138
9/4/2024	24.0	43.2	1,764	2,539,618	1,097,115	1,013.0	1,111
9/5/2024	24.0	43.2	1,750	2,520,357	1,088,794	1,013.0	1,103
9/6/2024	22.7	43.2	1,821	2,483,352	1,072,808	1,013.0	1,087
9/7/2024	24.0	43.2	1,809	2,605,626	1,125,630	1,013.0	1,140
9/8/2024	24.0	43.2	1,771	2,549,584	1,101,420	1,013.0	1,116
9/9/2024	23.0	43.2	1,794	2,475,364	1,069,357	1,013.0	1,083
9/10/2024	24.0	43.2	1,771	2,549,877	1,101,547	1,013.0	1,116
9/11/2024	24.0	43.2	1,760	2,534,694	1,094,988	1,013.0	1,109
9/12/2024	24.0	43.2	1,760	2,534,345	1,094,837	1,013.0	1,109
9/13/2024	24.0	43.2	1,750	2,519,566	1,088,453	1,013.0	1,103
9/14/2024	24.0	43.2	1,725	2,483,417	1,072,836	1,013.0	1,087
9/15/2024	24.0	43.2	1,692	2,436,926	1,052,752	1,013.0	1,066
9/16/2024	24.0	43.2	1,718	2,473,403	1,068,510	1,013.0	1,082
9/17/2024	24.0	43.2	1,734	2,497,678	1,078,997	1,013.0	1,093
9/18/2024	24.0	43.2	1,755	2,527,781	1,092,001	1,013.0	1,106
9/19/2024	24.0	43.2	1,773	2,552,498	1,102,679	1,013.0	1,117
9/20/2024	24.0	43.2	1,787	2,573,980	1,111,959	1,013.0	1,126
9/21/2024	24.0	43.2	1,772	2,551,031	1,102,045	1,013.0	1,116
9/22/2024	24.0	43.2	1,776	2,557,372	1,104,785	1,013.0	1,119
9/23/2024	24.0	43.2	1,785	2,570,927	1,110,640	1,013.0	1,125
9/24/2024	24.0	43.2	1,784	2,568,588	1,109,630	1,013.0	1,124
9/25/2024	24.0	43.2	1,743	2,509,438	1,084,077	1,013.0	1,098
9/26/2024	24.0	43.2	1,741	2,507,345	1,083,173	1,013.0	1,097
9/27/2024	23.1	43.2	1,812	2,515,352	1,086,632	1,013.0	1,101
9/28/2024	24.0	43.2	1,806	2,600,920	1,123,597	1,013.0	1,138
9/29/2024	24.0	43.2	1,788	2,574,079	1,112,002	1,013.0	1,126
9/30/2024	24.0	43.2	1,791	2,579,512	1,114,349	1,013.0	1,129
Totals/ Average:	716.87	43.2	1,771	76,171,979	32,906,295	1013.0	33,334
Notes:						Maximum:	1,140

*Methane content determined from flare A-17 February 1, 2024 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

CH₄= 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

September 12, 2024

Ms. Becky Azevedo
Guadalupe Recycling & Disposal Facility
15999 Guadalupe Mines Road
San Jose, CA 95120

**Re: Third Quarter 2024 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 Third Quarter 2024 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) and Standard Operating Procedure (SOP) for probe monitoring as detailed in (Attachment B). Results for both probes and structures are summarized in Table 1. Field data and Calibration data are presented in Attachment C.

Table 1 Monitoring Results

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	7/19/24; 10:45 AM	0.0	-0.2	OK	OK	
GUADGP02	7/19/24; 11:06 AM	0.0	-1.9	OK	OK	
GUADGP03	7/19/24; 11:20 AM	1.4	-0.1	OK	OK	
GUADGP04	7/19/24; 10:15 AM	0.0	-1.6	OK	OK	
GUADGP05	7/19/24; 11:37 AM	0.0	-0.2	OK	OK	
GUADGP6S	7/19/24; 10:32 AM	0.0	-0.2	OK	OK	
GUADGP6D	7/19/24; 10:28 AM	0.0	-0.2	OK	OK	

STRUCTURE FID MONITORING DATA

Analyst: Nicolas Moffit
Instrument: TVA-1000

Date: 8-26-2024
Serial #: 0914635772

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	10:00AM	0	
Scale House #1 Electrical Closet	10:10AM	0	
Scale House #2 Occupied Space	10:12AM	0	
Scale House #2 Electrical Closet	10:13AM	0	
Scale House #3 Occupied Space	10:15AM	117	Near entrance
Scale House #3 Electrical Closet	10:16AM	0	
Admin Office Crawl Space	11:00AM	0	
Admin Office Electrical Closet	11:05AM	0	
Admin Trailer	NA	0	
Security Trailer	11:15AM	0	
Materials Yard Trailer	11:25AM	0	
MRF Scale House	11:27AM	0	
MRF Building East Electrical	11:35AM	0	
Maintenance Building Office Outlet	11:38AM	0	
Maintenance Building Kitchen Outlet	11:45AM	0	
Maintenance Building Office Outlet	11:55AM	0	
Maintenance Building Electrical Room	12:00PM	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% CH₄ = 12,500 ppm CH₄

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 Third Quarter 2024 monitoring was conducted by Nicolas Moffit on July, 2024, 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 August 26, 2024. The instrument was calibrated on August 26, 2024 using 500 parts per million by volume (ppm_v) 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 Nicolas Moffit on August 26, 2024.

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

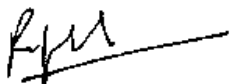
Description	8/26/2024
General Conditions	Passing clouds
Temperature (°F) Low/High	63/73
Wind Speed (mph)	3.7
Wind Direction	NNW
Barometric Pressure ("Hg)	30.05

CLOSING

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com.

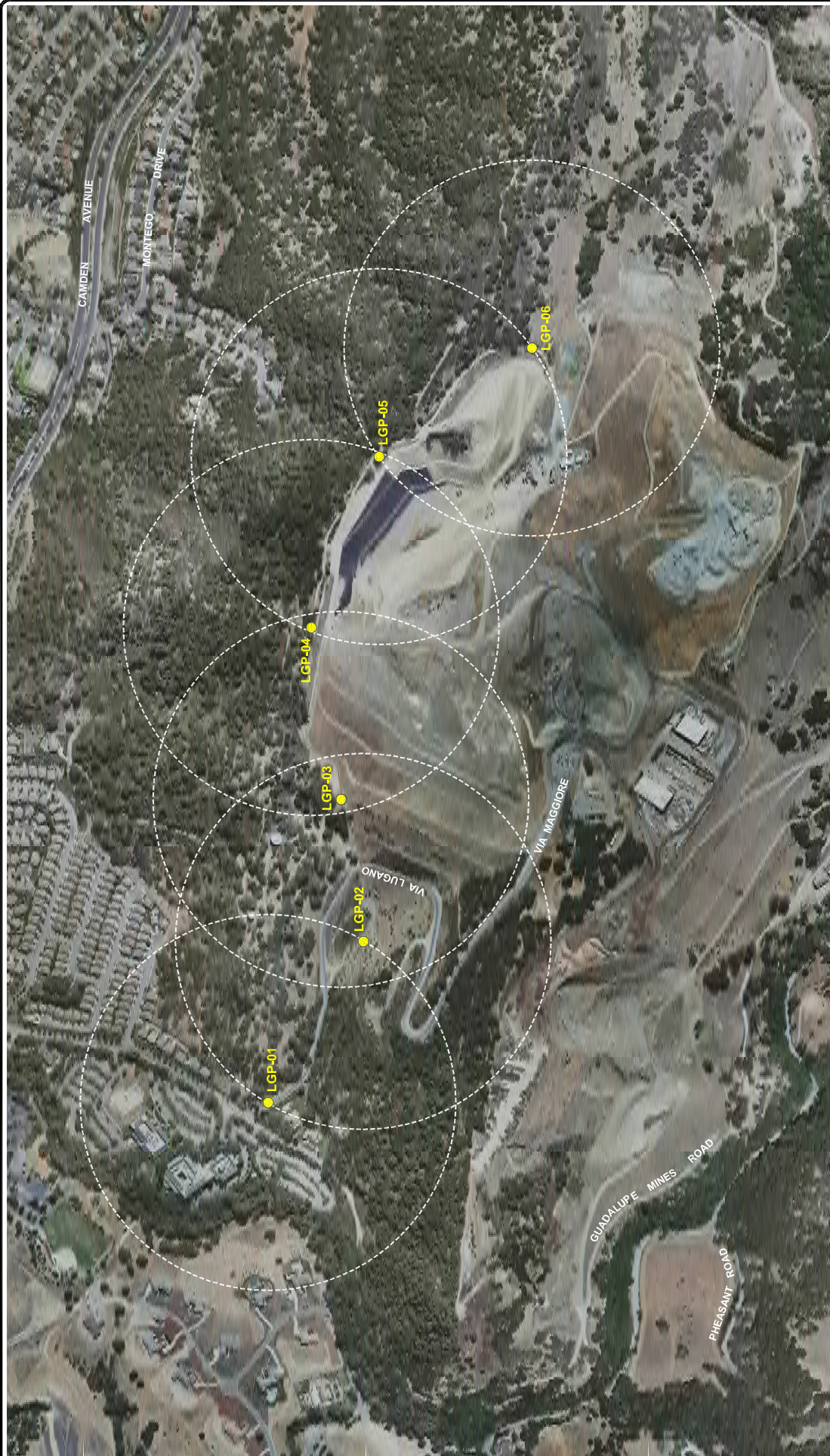
Thank you,

Waste Management,



Rajan Phadnis
Environmental Protection Specialist

ATTACHMENT A
PROBE LOCATION MAP

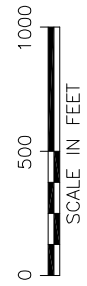
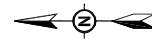


LEGEND

LGP-04
LFG MIGRATION MONITORING PROBE
AND DESIGNATION



**1000 FT RADIUS FROM LFG MIGRATION
MONITORING PROBE**



TITLE:

PERIMETER GAS PROBE LOCATIONS

LOCATION:

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

APPROVED: KH		FIGURE
DRAFTED: OP	PROJECT #	1
DATE	117-2402070.01	10-7-08



ATTACHMENT B

STANDARD OPERATING PROCEDURE FOR PROBE MONITORING

Guadalupe Rubbish Disposal Company Inc.

Standard Operating Procedures Landfill Gas Migration Monitoring

This standard operating procedure details the process that is follow for migration monitoring at landfill gas (LFG) probes for Guadalupe Rubbish Disposal Company, Inc. (GRDC). In accordance with the current GRDC LFG Migration Monitoring Plan, there are 6 LFG probes that are required to be monitored each quarter. Monitoring procedures are detailed below:

1. Dedicated equipment that is used for the monitoring event is calibrated with current calibration gases and documented. The equipment is now operational.
2. LFG technician documents general daily weather conditions for the monitoring event including barometric pressure, windspeed, wind direction, atmospheric temperature, and ambient temperature.
3. LFG technician arrives at the first monitoring location and unlocks the probe cover. The LFG technician then removes the quick connect/valve or similar fitting from probe assembly to gain access to the probe sampling location.
4. Next the LFG technician attaches the monitoring device hose (GEM 2000/5000) to the LFG probe sampling location.
5. First step of sample collection is to open the valve on the LFG probe sampling location.
6. Next step of sample collection is to check the probe pressure and record.
7. The following step is to turn on GEM 2000/5000 pump.
8. Wait for the reading to stabilize (typically 1-4 minutes).
9. Record gas composition reading that includes methane, carbon dioxide, oxygen, and balance gases on the GEM 2000/5000.
10. LFG technician then removes sample equipment from the LFG probe and closes the valve.
11. If the current probe location includes an additional depth for monitoring, then follow procedures 1-10 above.
12. To complete the monitoring at this location, the LFG Technician closes cap and secures the lock.
13. LFG technician follows above procedure # 1-12 at each LFG probe location.
14. At the completion of the daily LFG probe monitoring, the LFG technician uploads monitoring data to WM's Landfill Gas Management System (LGMS).

ATTACHMENT C
FIELD DATA AND CALIBRATION DATA

GRDF Probes: Field Summary July 2024

Device Name	Date Time	CH4 (Methane) (%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen) (%)	Balance Gas(%)	Relative Pressure ("H2O)	Ambient Temperature (oF)	Barometric Pressure("Hg)	Wind Speed(mph)	Instrument ID	Field Technician
GUADGP01	7/19/2024 10:45	0.0	3.4	16.5	80.1	-0.17	77	29.67	4	G502649	NMOFFITT
GUADGP02	7/19/2024 11:06	0.0	1.9	20.1	78	-1.92	77	29.6	4	G502649	NMOFFITT
GUADGP03	7/19/2024 11:20	1.4	4.1	11.5	83	-0.13	77	29.42	4	G502649	NMOFFITT
GUADGP04	7/19/2024 10:15	0.0	0.1	21.3	78.6	-1.57	77	29.24	4	G502649	NMOFFITT
GUADGP05	7/19/2024 11:37	0.0	1.6	19.5	78.9	-0.15	77	29.23	4	G502649	NMOFFITT
GUADGP6D	7/19/2024 10:28	0.0	0.4	19.8	79.8	-0.24	77	29.29	4	G502649	NMOFFITT
GUADGP6S	7/19/2024 10:32	0.0	1.7	18.4	79.9	-0.21	77	29.33	4	G502649	NMOFFITT

Guadalupe Rubbish Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Nico Moffitt

Date: 8-29-24

Instrument: Gem 5000 Serial #: 0914635772

Atmospheric Temperature (Deg F): 76

Barometric Pressure: 30 Inch of HG

Wind Speed: 5 mph **Wind Direction:** north west

Weather Condition: Sunny

Probe ID	Date/ Time	CH ₄ (%)	Probe Pressu re (in- H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	7/19/24 10:45 AM	0.0	-0.2	OK	OK	Will order new lock
GUADGP02	7/19/24 11:06 AM	0.0	-1.9	OK	OK	Will order new lock
GUADGP03	7/19/24 11:20 AM	1.4	-0.1	OK	OK	Will order new lock
GUADGP04	7/19/24 10:15 AM	0.0	-1.6	OK	OK	Will order new lock
GUADGP05	7/19/24 11:37 AM	0.0	-0.2	OK	OK	Will order new lock
GUADGP6S	7/19/24 10:32 AM	0.0	-0.2	OK	OK	Will order new lock
GUADGP6D	7/19/24 10:28 AM	0.0	-0.2	OK	OK	Will order new lock

STRUCTURE FID MONITORING DATA

Analyst: Nico Moffitt

Date: 8-26-24

Instrument: TVA-1000

Serial #: 0914635772

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	10:00AM	0	
Scale House #1 Electrical Closet	10:10AM	0	
Scale House #2 Occupied Space	10:12AM	0	
Scale House #2 Electrical Closet	10:13AM	0	
Scale House #3 Occupied Space	10:15:AM	117	Near entrance
Scale House #3 Electrical Closet	10:16AM	0	
Admin Office Crawl Space	11:00AM	0	
Admin Office Electrical Closet	11:05AM	0	
Admin Trailer	NA	0	
Security Trailer	11:15AM	0	
Materials Yard Trailer	11:25AM	0	

MRF Scale House	11:27 am	0	
MRF Building East Electrical	11:35am	0	
Maintenance Building Office Outlet	11:38am	0	
Maintenance Building Kitchen Outlet	11:45am	0	
Maintenance Building Office Outlet	11:55am	0	
Maintenance Building Electrical Room	12:00PM	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% CH₄ = 12,500 ppm CH₄



GAS DETECTOR CALIBRATION RECORD

LOCATION: Guadalupe Recycling and Disposal Inc.

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #0908401174M

CALIBRATED BY/INSTRUMENT USED: Nico Moffitt-MSA-Calibration Gas 5000PPM

CALIBRATION GAS EXPIRATION DATE: July 12, 2025

LOCATION	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED/ COMMENTS ON MONITOR CONDITION
Scale House #1	8-26-24	1500700093GAM	Yes	Good Condition
Scale House #2	8-26-24	1500700099GAM	Yes	Good Condition
Scale House #3	8-26-24	15007000101GAM	Yes	Good Condition
Admin. Trailer	8-26-24	1500700097GAM	Yes	Good Condition
Main Office	8-26-24	1500700090GAM	Yes	Good Condition
MRF Scale House	8-26-24	1500700089GAM	Yes	Good Condition
Materials Yard Trailer	8-26-24	1500700091GAM	Yes	Good Condition
Shop Office #1	8-26-24	1500700010GAM	Yes	Good Condition
Shop Office #2	8-26-24	1500700094GAM	Yes	Good Condition
Shop Office #3	8-26-24	1500700095GAM	Yes	Good Condition
Kitchen #4	8-26-24	1500700092GAM	Yes	Good Condition

***This form must be retained for 12 months after completion**

CALIBRATION PRECISION TEST RECORD

Date: 8/21/24

Expiration Date (3 months): 11/21/24

Time: AM 1:10 PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 091463872

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 504 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 502 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 503 ppm (f)

Calculate Precision:

$$\frac{\{|(496) - (500)| + |(500) - (498)| + |(500) - (496)|\}}{3} \times \frac{1}{500} \times 100$$

1.0 % (must be < than 10%)

Performed by: N. Moffitt

RESPONSE TIME TEST RECORD

Date: 9/21/24

Expiration Date (3 months): 11/21/24

Time: AM 1:15 PM

Instrument Make: Phoenix Scientific Model: TWA0003 S/N: 0914635M

Measurement #1:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 450 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 10 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: 10 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 503 ppm
90% of the Stabilized Reading: 451 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \frac{10 + 10 + 10}{3} = 10 \text{ seconds (must be less than 30 seconds)}$$

Performed By: N. Moffitt

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: GUADALUPE

Date: 8/26/24

Time: 10:AM PM

Instrument Make: Thermo Scientific Model: TVA1000 S/N: 0914635112

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.

2. Introduce the calibration gas into the probe.

Stable Reading = 490 ppm

3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 1.52 ppm (a)

2. Downwind Reading (highest in 30 seconds): 1.92 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 3.44 ppm

Performed By: NMORRIT



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

May 16, 2024

Ms. Becky Azevedo
Guadalupe Recycling & Disposal Facility
15999 Guadalupe Mines Road
San Jose, CA 95120

**Re: Second Quarter 2024 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 Second Quarter 2024 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) and Standard Operating Procedure (SOP) for probe monitoring as detailed in (Attachment B). Results for both probes and structures are summarized in Table 1. Field data and Calibration data are presented in Attachment C.

Table 1 Monitoring Results

Probe ID	Time	CH ₄ (%)	Probe Pressure (in-H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	4/19/2024;7:33 AM	0.0	0.05	OK	OK	
GUADGP02	4/19/2024;7:37 AM	0.0	0.06	OK	OK	
GUADGP03	4/19/2024;7:58 AM	0.0	-0.02	OK	OK	
GUADGP04	4/19/2024;8:24 AM	0.0	-1.91	OK	OK	
GUADGP05	4/19/2024;8:18 AM	0.0	-0.06	OK	OK	
GUADGP6S	4/19/2024;9:04 AM	0.0	0.02	OK	OK	
GUADGP6D	4/19/2024;9:08 AM	0.0	-0.00	OK	OK	

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles
Instrument: TVA-1000

Date: 4-19-2024
Serial #: 0914635772

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	10:50AM	0	
Scale House #1 Electrical Closet	10:53AM	0	
Scale House #2 Occupied Space	10:55AM	125	Near door way
Scale House #2 Electrical Closet	11:00AM	0	
Scale House #3 Occupied Space	11:02AM	0	
Scale House #3 Electrical Closet	11:05AM	0	
Admin Office Crawl Space	11:20AM	0	
Admin Office Electrical Closet	11:25AM	0	
Admin Trailer	11:33AM	0	
Security Trailer	11:45AM	0	
Materials Yard Trailer	12:00AM	0	
MRF Scale House	12:20 PM	0	
MRF Building East Electrical	12:25PM	0	
Maintenance Building Office Outlet	12:42PM	0	
Maintenance Building Kitchen Outlet	12:45PM	0	
Maintenance Building Office Outlet	12:50PM	0	
Maintenance Building Electrical Room	12:57PM	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% CH₄ = 12,500 ppm CH₄

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 Second Quarter 2024 monitoring was conducted by Tino Robles on April 19, 2024, 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 April 19, 2024. The instrument was calibrated on April 19, 2024, using 500 parts per million by volume (ppm_v) 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 April 19, 2024.

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

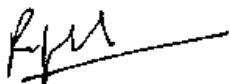
Description	4/19/2024
General Conditions	Sunny
Temperature (°F) Low/High	68/73
Wind Speed (mph)	10.6
Wind Direction	NW
Barometric Pressure ("Hg)	29.94

CLOSING

If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com.

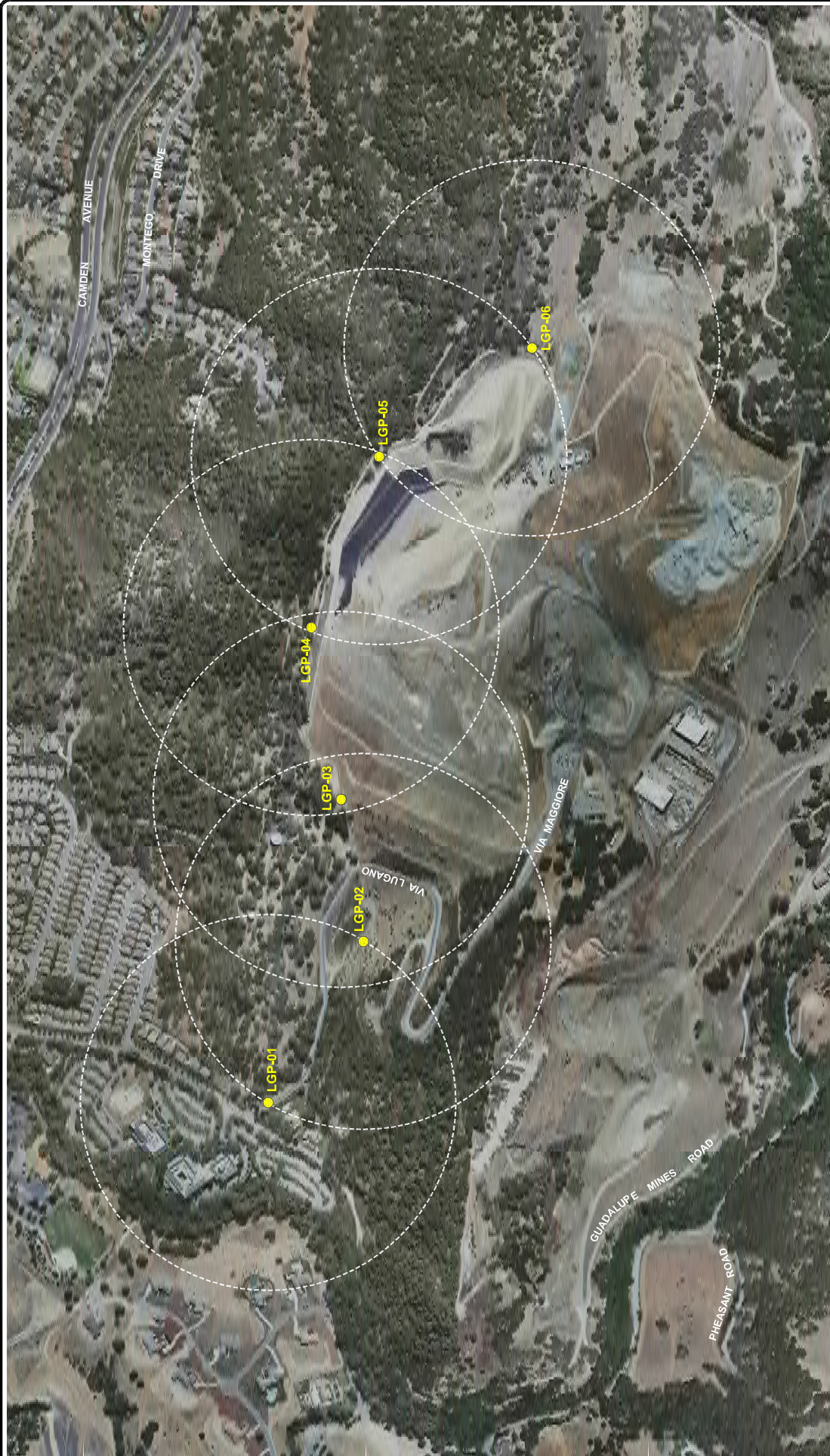
Thank you,

Waste Management,



Rajan Phadnis
Environmental Protection Specialist

ATTACHMENT A
PROBE LOCATION MAP

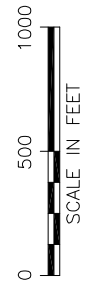
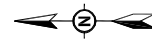


LEGEND

LGP-04
LFG MIGRATION MONITORING PROBE
AND DESIGNATION



**1000 FT RADIUS FROM LFG MIGRATION
MONITORING PROBE**



TITLE:

PERIMETER GAS PROBE LOCATIONS

LOCATION:

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

APPROVED: KH		FIGURE
DRAFTED: OP	PROJECT #	1
DATE	117-2402070.01	10-7-08



ATTACHMENT B

STANDARD OPERATING PROCEDURE FOR PROBE MONITORING

Guadalupe Rubbish Disposal Company Inc.

Standard Operating Procedures Landfill Gas Migration Monitoring

This standard operating procedure details the process that is follow for migration monitoring at landfill gas (LFG) probes for Guadalupe Rubbish Disposal Company, Inc. (GRDC). In accordance with the current GRDC LFG Migration Monitoring Plan, there are 6 LFG probes that are required to be monitored each quarter. Monitoring procedures are detailed below:

1. Dedicated equipment that is used for the monitoring event is calibrated with current calibration gases and documented. The equipment is now operational.
2. LFG technician documents general daily weather conditions for the monitoring event including barometric pressure, windspeed, wind direction, atmospheric temperature, and ambient temperature.
3. LFG technician arrives at the first monitoring location and unlocks the probe cover. The LFG technician then removes the quick connect/valve or similar fitting from probe assembly to gain access to the probe sampling location.
4. Next the LFG technician attaches the monitoring device hose (GEM 2000/5000) to the LFG probe sampling location.
5. First step of sample collection is to open the valve on the LFG probe sampling location.
6. Next step of sample collection is to check the probe pressure and record.
7. The following step is to turn on GEM 2000/5000 pump.
8. Wait for the reading to stabilize (typically 1-4 minutes).
9. Record gas composition reading that includes methane, carbon dioxide, oxygen, and balance gases on the GEM 2000/5000.
10. LFG technician then removes sample equipment from the LFG probe and closes the valve.
11. If the current probe location includes an additional depth for monitoring, then follow procedures 1-10 above.
12. To complete the monitoring at this location, the LFG Technician closes cap and secures the lock.
13. LFG technician follows above procedure # 1-12 at each LFG probe location.
14. At the completion of the daily LFG probe monitoring, the LFG technician uploads monitoring data to WM's Landfill Gas Management System (LGMS).

ATTACHMENT C
FIELD DATA AND CALIBRATION DATA

GRDF Probes- Field Data April 2024

Device Name	Date Time	CH4 (Methane)(%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen)(%)	Balance Gas(%)	Relative Pressure("H2O)	Ambient Temperature (oF)	Barometric Pressure("Hg)	Wind Speed(mph)	Instrument ID	Field Technician
GUADGP01	4/19/2024 7:33	0	3.2	10.2	86.6	0.05	59	29.57	0	G502468	FROBLES
GUADGP02	4/19/2024 7:37	0	0.6	18.3	81.1	0.06	59	29.57	0	G502468	FROBLES
GUADGP03	4/19/2024 7:58	0	0.2	20.4	79.4	-0.02	59	29.48	0	G502468	FROBLES
GUADGP04	4/19/2024 8:24	0	0.1	20.5	79.4	-1.91	59	29.14	0	G502468	FROBLES
GUADGP05	4/19/2024 8:18	0	0.1	20.3	79.6	-0.06	59	29.27	0	G502468	FROBLES
GUADGP6D	4/19/2024 9:08	0	0.1	19.5	80.4	0.00	59	29.25	0	G502468	FROBLES
GUADGP6S	4/19/2024 9:04	0	2.3	15.4	82.3	0.02	59	29.24	0	G502468	FROBLES



GAS DETECTOR CALIBRATION RECORD

LOCATION: Guadalupe Recycling and Disposal Inc.

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #0908401174M

CALIBRATED BY/INSTRUMENT USED: Tino Robles-MSA-Calibration Gas 5000PPM

CALIBRATION GAS EXPIRATION DATE: July 12, 2025

LOCATION	DATE CALIBRATED	SERIAL NUMBER	Methane LEL* SENSOR alarm 10,000 ppm	MAINTENANCE PERFORMED/ COMMENTS ON MONITOR CONDITION
Scale House #1	4-19-24	1500700093GAM	Yes	Good Condition
Scale House #2	4-19-24	1500700099GAM	Yes	Good Condition
Scale House #3	4-19-24	15007000101GAM	YES	Good Condition
Admin. Trailer	4-19-24	1500700097GAM	Yes	Good Condition
Main Office	4-19-24	1500700090GAM	Yes	Good Condition
MRF Scale House	4-19-24	1500700089GAM	Yes	Good Condition
Materials Yard Trailer	4-19-24	1500700091GAM	Yes	Good Condition
Shop Office #1	4-19-24	1500700010GAM	Yes	Good Condition
Shop Office #2	4-19-24	1500700094GAM	Yes	Good Condition
Shop Office #3	4-19-24	1500700095GAM	Yes	Good Condition
Kitchen #4	4-19-24	1500700092GAM	Yes	Good Condition

***This form must be retained for 12 months after completion**

Guadalupe Rubbish Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles

Date: 4-19-24

Instrument: Gem5000 Serial #: G502468

Atmospheric Temperature (Deg F): 57

Barometric Pressure: 29.97 Inch of HG

Wind Speed: 5 mph **Wind Direction:** ws

Weather Condition: Sunny

Probe ID	Time	CH ₄ (%)	Probe Pressu re (in- H ₂ O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
GUADGP01	7:33 AM	0.0	0.05	OK	OK	Will order new lock
GUADGP02	7:37 AM	0.0	0.06	OK	OK	Will order new lock
GUADGP03	7:58 AM	0.0	-0.02	OK	OK	Will order new lock
GUADGP04	8:24 AM	0.0	-1.91	OK	OK	Will order new lock
GUADGP05	8:18 AM	0.0	-0.06	OK	OK	Will order new lock
GUADGP6S	9:04 AM	0.0	0.02	OK	OK	Will order new lock
GUADGP6D	9:08 AM	0.0	-0.00	OK	OK	Will order new lock

Immediately notify compliance personnel of any readings in excess of 5 percent methane.

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles

Date: 4-19-24

Instrument: TVA-1000

Serial #: 0914635772

Monitored Location	Time	PPM	Comments
Scale House #1 Occupied Space	10:50AM	0	
Scale House #1 Electrical Closet	10:53AM	0	
Scale House #2 Occupied Space	10:55AM	125	Near door way
Scale House #2 Electrical Closet	11:00AM	0	
Scale House #3 Occupied Space	11:02AM	0	
Scale House #3 Electrical Closet	11:05AM	0	
Admin Office Crawl Space	11:20AM	0	
Admin Office Electrical Closet	11:25AM	0	
Admin Trailer	11:33AM	0	
Security Trailer	11:45AM	0	
Materials Yard Trailer	12:00AM	0	
MRF Scale House	12:20 PM	0	
MRF Building East Electrical	12:25PM	0	
Maintenance Building Office Outlet	12:42PM	0	
Maintenance Building Kitchen Outlet	12:45PM	0	
Maintenance Building Office Outlet	12:50PM	0	
Maintenance Building Electrical Room	12:57PM	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% CH₄ = 12,500 ppm CH₄

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Guadalupe Date: 4/19/24

Time: 9:30 AM PM

Instrument Make: Thermo Scientific Model: TVA 1000B S/N: 0914635772

Calibration Procedure

1. Allow instrument to internally zero itself while introducing zero air.
2. Introduce the calibration gas into the probe.

Stable Reading = 504 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: T.Robles

RESPONSE TIME TEST RECORD

Date: 4/18/24

Expiration Date (3 months): 7/18/24

Time: _____ AM 12:26 PM

Instrument Make: THERMA Model: TVA1000 S/N: 0914635712

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 503 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: 503 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 5 seconds (b)

Measurement #3:

Stabilized Reading Using Calibration Gas: 500 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after
switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

$$\frac{(a) + (b) + (c)}{3} = \underline{5} \text{ seconds (must be less than 30 seconds)}$$

Performed By: N. MOFFAT

CALIBRATION PRECISION TEST RECORD

Date: 4/18/24

Expiration Date (3 months): 7/18/24

Time: _____ AM 12:05 PM

Instrument Make: THERMAL Model: TVA1000 S/N: 0914635772

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 507 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 513 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 538 ppm (f)

Calculate Precision:

$$\frac{\{|(500) - (b)| + |(500) - (d)| + |(500) - (f)|\}}{3} \times \frac{1}{500} \times 100$$

14 % (must be < than 10%)

Performed By: N. Moffitt

APPENDIX N

SOURCE TEST SUMMARY AND RESULTS

Guadalupe Rubbish Disposal Facility (GRDF)

Facility # 3294

Compliance Emissions Test Report #20122 Landfill Gas Control Flare- Source A-9

Located at:

15999 Guadalupe Mines Road,
San Jose, CA

Prepared For:

Dave Bearden
SCS Engineers
3117 Fite Circle, Suite 108
Sacramento, CA 95827
(916) 361-1297
dbearden@scsengineers.com

For Submittal To:

Attn: Gloria Espena & Marco Hernandez
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105
gespena@baaqmd.gov & mhernandez@baaqmd.gov
sourcetest@baaqmd.gov

Testing Performed On:

April 29th, 2020

Final Report Submitted On:

June 24th, 2020

Performed and Reported by:

Blue Sky Environmental, Inc.
624 San Gabriel Avenue
Albany, CA 94706
bluesky@blueskyenvironmental.com
Office (510) 525 1261
Cell (510) 508 3469

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 (510) 508-3469.



Guy Worthington
Principal Project Manager

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SECTION 1. INTRODUCTION**1.1. Summary**

Blue Sky Environmental, Inc was contracted to perform emissions testing on the A-9 Landfill Gas (LFG) Flare at Guadalupe Rubbish Disposal Facility. (GRDF), 15999 Guadalupe Mines Road, San Jose, California. This report presents the results of the test program. Table 1 summarizes the source test information. Table 2 summarizes the results compared to the emission limits. The flare met all compliance emission criteria when tested with Condensate On and Condensate Off.

Table 1. Source Test Information

Test Location:	Guadalupe Rubbish Facility (GRDF), 15999 Guadalupe Mines Road, San Jose, California, 95120, Site Number 3294
Source Contact:	Becky Azeredo (408) 960 - 0769
Source Tested:	Enclosed Gas Flare (A-9)
Source Test Date:	April 29 th , 2020
Test Objective:	Determine Compliance with BAAQMD Regulation 8, Rule 34, AB32 Landfill Methane Rule and BAAQMD Permit Condition 6188
Test Performed By:	Blue Sky Environmental, Inc 624 San Gabriel Ave., Albany, CA 94706 Guy Worthington (510) 508-3469 Blueskyenvironmental@yahoo.com
Test Parameters:	<u>Landfill Gas</u> O ₂ , N ₂ , CO ₂ , BTU, THC, CH ₄ , NMOC, HHV, F-Factor, Sulfur Species, Volumetric Flow rate <u>Flare Emissions</u> THC, CH ₄ , NMOC, NO _x , CO, O ₂ , SO ₂ , Volumetric Flow rate.

Table 2. Compliance Summary

<u>Condensate On</u>	Average Test Result	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	9.5	16	In Compliance
CO, ppmvd @ 15% O ₂	<3.3	134	In Compliance
SO ₂ , ppmvd	55.4	300	In Compliance
NMOC, (ppmvd @ 3% O ₂ as CH ₄)	<0.5	30	In Compliance
NMOC Destruction Efficiency	>99.89	98%	In Compliance
Methane Destruction Efficiency	>99.998	99%	In Compliance
<u>Condensate Off</u>	Average Test Result	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	8.4	16	In Compliance
CO, ppmvd @ 15% O ₂	<3.4	134	In Compliance
SO ₂ , ppmvd	46.4	300	In Compliance
NMOC, (ppmvd @ 3% O ₂ as CH ₄)	<1.6	30	In Compliance
NMOC Destruction Efficiency	>99.65	98%	In Compliance
Methane Destruction Efficiency	>99.996	99%	In Compliance

SECTION 2. SOURCE TEST PROGRAM

2.1. Overview

This performance test was conducted to demonstrate that the LFG flare is operating in accordance with the Bay Area Air Quality Management District (BAAQMD) Title V Permit for Site Number 3294 and BAAQMD Regulation 8, Rule 34. Testing was also performed to demonstrate compliance with the State Landfill Methane Gas Rule AB32 for Flare performance with Condensate On and Condensate Off.

2.2. Pollutants Tested

The following EPA and ASTM sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA 3A	O ₂ , CO ₂
EPA 10	CO
EPA 25A	THC, CH ₄ and NMOC
EPA 7E	NO _x
EPA 18	CH ₄
EPA 19	Flow Rate Calculation, DSCFM
EPA 25C	LFG Gas analysis for NMOC by GC
EPA 4 part 4.16	Moisture Calculated
ASTM 1945/3588	LFG Gas analysis for BTU and F-Factor
ASTM 5504	Sulfur Species, H ₂ S and TRS

2.3. Test Date(s)

Testing was conducted on April 29th, 2020.

2.4. Sampling and Observing Personnel

Testing was performed by Guy Worthington and Timothy Eandi representing Blue Sky Environmental.

Dave Bearden of SCS Engineers was present to operate the Flare and assist in coordinating testing and the collection of process data during testing.

The BAAQMD was notified of the test in a plan submitted by SCS Engineers on behalf of Waste Management dated April 8th, 2020 (NST #5928). A Source Test Protocol acknowledgement was received on April 8th, 2020, but no agency observers were present to witness the testing. A copy of the source test protocol and related email correspondence can be found in Appendix I.

2.5. Source/Process Description

The enclosed LFG flare at GRDF consists of a 70 million British Thermal Units per hour (MMBtu/hr) multiple nozzle burner manufactured by LFG Specialties, Inc. The flare shell is 35 feet high and 9.5 feet in diameter. The inside diameter (ID) is approximately 8.5 feet.

The flare was operated at an average 901 standard cubic feet per minute (SCFM). The flare set-point was established at 1,645 Degrees Fahrenheit (°F). Methane quality is typically about 46-49 percent (%), and the Oxygen content typically around 1% or less. 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 operating temperature and the LFG flow rate records are contained in Appendix-F. The condensate injection rate was 0.9 gallons per minute (gpm).

The flare was operated at 1,642 - 1,643 °F average (avg.). The average LFG flow rate ranged between 885 – 919 standard cubic feet per minute (scfm).

The LFG methane content ranged between 49.4 and 50.2 percent (%). The average LFG Methane content of the six test runs was 49.9%.

SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

3.1. Port location

The Flare sampling was conducted in the 8 feet 6 inch diameter ID stack (102”), via ports approximately 30 feet above grade, accessible by boom-lift. Four, 4-inch flange ports are available approximately 5 stack diameters downstream from the burners and ~2 stack diameters upstream from the exit.

3.2. Point description/Labeling – ports/stack

Blue Sky Environmental, Inc. conducted two perpendicular 8-point traverses per BAAQMD ST-18 and found O₂ stratification about 10% therefore subsequent CEM sampling was conducted with 8-point traverses per port to achieve the required (BAAQMD ST-7, 6.6) representative sampling of the emissions.

The traverse points for the exhaust of the flare with 8 feet 6 inch (102”) diameter plus 4 inch ports were 7.3, 14.7, 23.8, 36.9, 73.1, 86.2, 95.3 and 102.7 inches.

3.3. Sample train description

Sampling system diagrams are included in the appendices. Additional descriptive information is included in the following section.

3.4. Sampling procedure description

Three, 30-minute minimum test runs were conducted with the Condensate Injection Off, and three 30-minute test runs with the Condensate Injection On.

Sampling & Traverse Points Selection by EPA Method 1. 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 (O₂, CO₂), 7E (NO_x) and 10 (CO) are 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 CEM test van. The sampling system consists of a stainless steel sample probe, a heated Teflon sample line, glass-fiber particulate filter, glass moisture-knockout condensers in ice, followed by thermoelectric coolers, Teflon sample transfer tubing, diaphragm pump and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI was provided to each analyzer to avoid pressure variable response differences. The entire sampling system was leak checked prior to and at the end of the sampling program. The sampling and analytical system (for EPA Methods) was 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 usually use the calibration gas that most closely matches the stack gas effluent. Along with the Sampling System Bias, the Zero and Calibration Drift values were determined for each test. 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. In addition, the NO_x analyzer NO₂ to NO conversion efficiency check defers to EPA Method 20 section 5.6 for the criteria and procedure.

All calibration gases are EPA Protocol #1. The analyzer data recording system consists of a Honeywell DPR3000 strip chart recorder supported by a Data Acquisition System (DAS).

System Performance Criteria

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO _x Converter Efficiency (EPA 7E)	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

EPA Method 25A Total Hydrocarbons, Methane and Non-Methane Hydrocarbons.

EPA Method 25A employs a heated FID, Teflon sample gas transfer lines to provide a continuous sample to the heated FID Hydrocarbon Analyzer. Heated lines were used if necessary to avoid moisture or hydrocarbon condensation. Calibration gases are selected to fall within 25-35%, 45-55% and 80-90% of Range for Total Hydrocarbon.

Methane in the exhaust is usually determined per EPA Methods (M18). An integrated tedlar bag or SUMMA canister is collected and either analyzed 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. Where the total hydrocarbon numbers are well below detection limits and less than 5 ppm for example, the methane may not be determined separately.

EPA Method 18 (VOC or Methane) is used to measure the Methane and ethane to subtract from the THC of Method 25A. This method is used to determine emissions of volatile organics or Methane analyzed by gas chromatograph/mass spectroscopy (GC/MS). Gaseous emissions are drawn through a teflon sample line to a pre-evacuated 6-Liter SUMMA canister. Sample is drawn into the canister by pre-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 between 20 to 60 minutes. The canister samples are taken to a laboratory and analyzed within 72 hours.

To prevent moisture condensation, a condenser may be used before the canister and the condensate analyzed separately, or the canister can be partially pre-filled with a known quantity zero air or nitrogen, prior to collecting the gas sample, or the system can be heated and kept heated above the condensation point until analysis.

Method 19 (gas) was used to determine stack gas volumetric flow rates using oxygen based F-factors. F-factors are ratios of combustion gas volumes generated from heat input. The heating value of the fuel in Btu per cubic foot is determined from analysis of the fuel gas samples using ASTM D1945/3588 gas chromatography analytical procedures. Total fuel consumption for each source is monitored by a dedicated fuel gas meter. 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 were used to determine emission rates.

Fuel Analysis per ASTM D-1945/3588 and ASTM D-5504 are used for fuel sampling and analysis for F-Factor and BTU determination, fixed gas analysis O₂, CO₂, CO, N₂, H₂, CH₄, C₂-C₆+, and sulfur compounds, including H₂S. Samples may be collected in tedlar bags and analyzed within 24 hours or Silco SUMMA canisters and analyzed within 72 hours. Hydrogen Sulfide, Carbonyl Sulfide, Sulfur Dioxide, Methyl Mercaptan, Ethyl Mercaptan, Dimethyl Sulfide, Carbon Disulfide, Isopropyl Mercaptan, tert-Butyl Mercaptan, n-Propyl Mercaptan, Methylethylsulfide, sec-Butyl Mercaptan, Thiophene, iso-Butyl Mercaptan, Diethyl Sulfide, n-Butyl Mercaptan, Dimethyl Disulfide, 2-Methylthiophene, 3-Methylthiophene, Tetrahydrothiophene, Bromothiophene, Thiophenol, Diethyl Disulfide, Total Unidentified Sulfurs, Total Reduced Sulfurs as H₂S.

EPA Method 4-16.4 is an acceptable alternative to EPA Method 4 for the determination of moisture from combustion using F-factors. In this case the mole fraction of the 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 from 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, and 3) the mole fraction from the hydrogen in the fuel. To determine the moisture in the fuel, the sum of the raw fuel analysis before normalization, is subtracted from 100.

ASTM Method 1945/5504/25C Concurrent with the exhaust sampling, Blue Sky collected a total of six 6-L Silco Canisters of the LFG for analysis. The canisters were equipped with a 30 minute flow controller and vacuum gauge to aim for a final internal vacuum of the canister of approximately above 5" of Hg. The samples were collected directly from the inlet line. All the samples were analyzed for NMOC, HHV, F-Factor, Fixed Gases, Sulfur Species (including H₂S and TRS). The inlet volumetric flow rate was continuously measured and recorded by the LFG Flowmeter.

3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO 42C	NO _x	Chemiluminescence
TECO 42C	NO	Chemiluminescence
TECO 48C	CO	GFC/IR
Ratfisch RS-55	THC	FID
Fuji ZRH	CO ₂	IR
Servomex 1440	O ₂	Paramagnetic

The instrument response was recorded on strip charts, but the analyzer data collected on the DAS was used for reporting the results. The averages were corrected for drift using EPA Method 7E equations.

3.6. Comments: Limitations and Data Qualifications

The measured emissions meet the Permit required limits, no deviations from the protocol or abnormalities during the test were observed.

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. Calibration Certifications and Quality Assurance Records**
- H. Sample Train Configuration and Stack Diagrams**
- I. Related Correspondence (Source Test Plan)**
- J. BAAQMD Permit Conditions**
- K. Flare Flow Meter Calibration Document**

A
Tabulated Results

TABLE #1

WM - GRDF

Flare A-9

LFG - Condensate On

RUN	1	2	3	AVERAGE	LIMITS
Test Date	4/29/20	4/29/20	4/29/20		
Test Time	1018-1100	1127-1205	1231-1309		
Standard Temp., °F	70	70	70		
Flare Temperature, °F Average	1,643	1,642	1,643	1,643	
Condensate Injection, gpm	0.9	0.9	0.9	0.9	
Fuel Flow Rate, SCFM	885	901	919	902	
Fuel Heat Input, MMBTU/Hr	26.3	26.7	27.4	26.8	
Exhaust Flow Rate, DSCFM (Method 19)	9,850	10,127	10,365	10,114	
Oxygen, O ₂ , %	12.0	12.1	12.1	12.1	
Carbon Dioxide, CO ₂ , %	7.9	7.9	7.8	7.9	
Water Vapor, H ₂ O, % M4.16	5.6	5.4	5.6	5.5	
NO, ppm	14.6	14.6	14.5	14.6	16
NO ₂ , ppm	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO	<0.07	<0.07	<0.07	<0.07	
NOx, ppm	14.2	14.2	14.3	14.2	
NOx, ppm @ 15% O₂	9.4	9.5	9.6	9.5	
NOx, lbs/hr	0.99	1.03	1.06	1.03	
CO, ppm	<5.0	<5.0	<5.0	<5.0	134
CO, ppm @ 15% O₂	<3.3	<3.3	<3.3	<3.3	
CO, lbs/hr	<0.21	<0.22	<0.23	<0.22	
Total Sulfurs as H ₂ S in fuel, ppm	678	641	544	621	300
SO₂ calculated emission, ppm	60.9	57.0	48.3	55.4	
THC, ppm (25A) wet	<1.0	<1.0	<1.0	<1.0	30
THC, ppm dry	<1.1	<1.1	<1.1	<1.1	
THC, lbs/hr as CH ₄	<0.03	<0.03	<0.03	<0.03	
CH ₄ , ppm (M18)	0.9	0.8	0.7	0.8	
CH ₄ , lbs/hr	0.02	0.02	0.02	0.02	
NMOC, ppm as CH ₄	<0.2	<0.3	<0.4	<0.3	
NMOC, lbs/hr as CH ₄	<0.00	<0.01	<0.01	<0.01	
NMOC, ppm @ 3% O₂ as CH₄	<0.3	<0.5	<0.7	<0.5	
INLET TNMOC (Method 25C)	2,424	2,843	2,732	2,666	
INLET NMOC, lbs/hr as CH ₄	5.3	6.4	6.2	6.0	
NMOC Removal Efficiency	99.93%	99.90%	99.85%	99.89%	98
INLET CH ₄ , ppm	495,000	494,000	497,000	495,333	99
INLET CH ₄ , lbs/hr	1,088	1,104	1,134	1,109	
CH₄ Removal Efficiency	>99.998%	>99.998%	>99.998%	>99.998%	
INLET THC (TOC), ppm as CH ₄	497,424	496,843	499,732	498,000	
INLET THC (TOC), lbs/hr as CH ₄	1,093	1,111	1,141	1,115	
THC (TOC) Removal Efficiency	99.998%	99.998%	99.998%	99.998%	

< Value = 2% of Analyzer Range

WHERE,

ppm = Parts Per Million Concentration

Lbs/hr = Pound Per Hour Emission Rate

Tstd. = Standard Temp. (°R = °F+460)

MW = Molecular Weight

DSCFM = Dry Standard Cubic Feet Per Minute

NOx = Oxides of Nitrogen as NO₂ (MW = 46)

CO = Carbon Monoxide (MW = 28)

TOC = THC = Total Organic Carbon as Methane including CH₄ (MW = 16)

THC = Total Hydrocarbons as Methane (MW = 16)

NMOC = Total Non-Methane Organic Carbon as Methane (MW = 16)

SO₂ = Sulfur Dioxide as SO₂ (MW = 64.1)**CALCULATIONS,**PPM @ 15% O₂ = ppm * 5.9 / (20.9 - %O₂)PPM @ 3% O₂ = ppm * 17.9 / (20.9 - %O₂)

Lbs/hr = ppm x 8.223 E-05 x DSCFM x MW / Tstd. °R

Lbs/day = Lbs/hr * 24

Removal Efficiency = (inlet lbs/hr - outlet lbs/hr) / inlet lbs/hr

SO₂ emission ppm = H₂S in fuel * Fuel Flow/Stack Gas Flow

TABLE #2

WM - GRDF

Flare A-9

LFG - Condensate Off

RUN	1	2	3	AVERAGE	LIMITS
Test Date	4/29/20	4/29/20	4/29/20		
Test Time	1346-1428	1448-1527	1604-1642		
Standard Temp., °F	70	70	70		
Flare Temperature, °F Average	1,642	1,643	1,643	1,643	
Condensate Injection, gpm	0.0	0.0	0.0	0.0	
Fuel Flow Rate, SCFM	913	891	894	899	
Fuel Heat Input, MMBTU/Hr	27.5	26.9	27.0	27.1	
Exhaust Flow Rate, DSCFM (Method 19)	10,738	10,506	10,427	10,557	
Oxygen, O ₂ , %	12.4	12.4	12.3	12.3	
Carbon Dioxide, CO ₂ , %	7.6	7.6	7.6	7.6	
Water Vapor, H ₂ O, % M4.16	5.5	5.5	5.7	5.6	
NO, ppm	12.1	12.3	12.6	12.3	16
NO ₂ , ppm	<1.0	<1.0	<1.0	<1.0	
NO ₂ /NO	<0.08	<0.08	<0.08	<0.08	
NOx, ppm	11.9	12.1	12.4	12.1	
NOx, ppm @ 15% O₂	8.2	8.4	8.5	8.4	
NOx, lbs/hr	0.91	0.91	0.92	0.91	
CO, ppm	<5.0	<5.0	<5.0	<5.0	134
CO, ppm @ 15% O₂	<3.5	<3.5	<3.4	<3.4	
CO, lbs/hr	<0.23	<0.23	<0.23	<0.23	
Total Sulfurs as H ₂ S in fuel, ppm	616	583	436	545	300
SO₂ calculated emission, ppm	52.4	49.5	37.4	46.4	
THC, ppm (25A) wet	<1.0	<1.0	<1.0	<1.0	30
THC, ppm dry	<1.1	<1.1	<1.1	<1.1	
THC, lbs/hr as CH ₄	<0.03	<0.03	<0.03	<0.03	
CH ₄ , ppm (M18)	1.5	1.9	1.9	1.8	
CH ₄ , lbs/hr	0.04	0.05	0.05	0.05	
NMOC, ppm as CH ₄	<0.5	<0.9	<0.9	<0.8	
NMOC, lbs/hr as CH ₄	<0.01	<0.02	<0.02	<0.02	
NMOC, ppm @ 3% O₂ as CH₄	<1.0	<1.9	<1.9	<1.6	
INLET TNMOC (Method 25C)	2,454	2,625	2,608	2,562	
INLET NMOC, lbs/hr as CH ₄	5.6	5.8	5.8	5.7	
NMOC Removal Efficiency	99.76%	99.60%	99.60%	99.65%	98
INLET CH ₄ , ppm	501,000	502,000	502,000	501,667	99
INLET CH ₄ , lbs/hr	1,135.3	1,110.9	1,113.7	1,120	
CH₄ Removal Efficiency	>99.996%	>99.996%	>99.996%	>99.996%	
INLET THC (TOC), ppm as CH ₄	503,454	504,625	504,608	504,229	
INLET THC (TOC), lbs/hr as CH ₄	1,141	1,117	1,119	1,126	
THC (TOC) Removal Efficiency	99.998%	99.998%	99.998%	99.998%	

< Value = 2% of Analyzer Range

WHERE,

ppm = Parts Per Million Concentration

Lbs/hr = Pound Per Hour Emission Rate

Tstd. = Standard Temp. (°R = °F+460)

MW = Molecular Weight

DSCFM = Dry Standard Cubic Feet Per Minute

NOx = Oxides of Nitrogen as NO₂ (MW = 46)

CO = Carbon Monoxide (MW = 28)

TOC = THC = Total Organic Carbon as Methane including CH₄ (MW = 16)

THC = Total Hydrocarbons as Methane (MW = 16)

NMOC = Total Non-Methane Organic Carbon as Methane (MW = 16)

SO₂ = Sulfur Dioxide as SO₂ (MW = 64.1)**CALCULATIONS,**PPM @ 15% O₂ = ppm * 5.9 / (20.9 - %O₂)PPM @ 3% O₂ = ppm * 17.9 / (20.9 - %O₂)

Lbs/hr = ppm x 8.223 E-05 x DSCFM x MW / Tstd. °R

Lbs/day = Lbs/hr * 24

Removal Efficiency = (inlet lbs/hr - outlet lbs/hr) / inlet lbs/hr

SO₂ emission ppm = H₂S in fuel * Fuel Flow/Stack Gas Flow

Guadalupe Rubbish Disposal

BAAQMD Facility 3294

Compliance Test Report #24048

Landfill Gas Flare A-17

Located at:

Guadalupe Recycling and Disposal Facility (GRDF)

15999 Guadalupe Mines Road

San Jose, CA 95120

Prepared for:

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Testing Performed on:

February 1, 2024

Final Report Submitted on:

March 20, 2024

Performed and Reported by:

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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.



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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

Test Location:	Guadalupe Recycling and Disposal Facility (GRDF) 15999 Guadalupe Mines Road, San Jose, CA 95120
Source Contact:	Maria Bowen, SCS Engineers (619) 455-9518
Source Tested:	Flare A-17–120 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
Source Test Date:	February 1, 2024
Test Objective:	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.
Test Performed by:	Blue Sky Environmental, Inc. 2273 Lobert Street, Castro Valley, CA 94546 Jaime Rios (925) 482-4504 bluesky@blueskyenvironmental.com
Test Parameters:	<u>Landfill Gas</u> O ₂ , N ₂ , CO ₂ , Btu, THC, CH ₄ , NMOC, HHV, F-factor, sulfur species, volumetric flow rate <u>Flare Emissions</u> THC, CH ₄ , NMOC, NO _x , CO, O ₂ , SO ₂ , moisture, volumetric flow rate



Table 1-2 Compliance Summary

Flare A-17 Condensate ON

Emission Parameter	Average Results (Condensate ON)	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	10.4	15	In Compliance
CO, ppmvd @ 15% O ₂	2.2	81	In Compliance
SO ₂ , ppmvd	89.4	300	In Compliance
NMOC, ppmvd @ 3% O ₂	<3.8	30*	In Compliance
NMOC Destruction Efficiency, %	>98.36%	>98%*	In Compliance
CH ₄ Destruction Efficiency, %	>99.98%	>99%	In Compliance

Flare A-17 Condensate OFF

Emission Parameter	Average Results (Condensate OFF)	Permit Limit	Compliance Status
NO _x , ppmvd @ 15% O ₂	9.5	15	In Compliance
CO, ppmvd @ 15% O ₂	<1.4	81	In Compliance
SO ₂ , ppmvd	66.3	300	In Compliance
NMOC, ppmvd @ 3% O ₂	12.0	30*	In Compliance
NMOC Destruction Efficiency, %	>94.40%	>98%*	--
CH ₄ Destruction Efficiency, %	>99.98%	>99%	In Compliance

*NMOC permit limits are 30 ppmvd @ 3% O₂ or DE >98%



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_x, CO, and NMOC emission limits specified in condition 25320 of Bay Area Air Quality Management District (BAAQMD) Permit to Operate 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 ₂ and CO ₂ Emissions, Stack Gas Molecular Weight
EPA Method 7E	NO _x Emissions and NO ₂ Converter Check
EPA Method 10	CO Emissions
EPA Method 4	Moisture
EPA Method 18	CH ₄ Emissions
EPA Method 19	Flow Rate Calculation DSCFM
EPA Method 25A/ALT 097	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 ₂ S) and TRS

2.3. Test Date

Testing was conducted on February 1, 2024.

2.4. Sampling and Observing Personnel

Testing was conducted by Jaime Rios and Timothy Eandi, representing Blue Sky Environmental, Inc.

Ben Tarver of SCS Engineers was on-site to oversee flare operations and assist in coordinating testing and the collection of process data during testing.

BAAQMD was notified of the scheduled testing in a source test protocol submitted by SCS Engineering on behalf of Waste Management on December 22, 2023. A Source Test Protocol acknowledgement (NST-8969) was received on December 28, 2023. No representatives from BAAQMD 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 approximately 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 1,516°F with CON and 1,519°F with COFF during testing. The flare was operated on landfill gas with a condensate injection rate of 0.9 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 flow rate ranged from 1,862 to 1,912 SCFM. The facility exhaust temperature and LFG flowrate records are provided in Appendix F. It was noted that the facility's Yokogawa clock was running 16 minutes behind real time. The records provided have been adjusted by 16 minutes.

Landfill gas samples collected at the inlet of the flare had an average methane content of 43.2% and an oxygen content of 2.3%.



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 to check for the presence of stratification and 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 30+-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 30+-minute gaseous emissions tests were performed for oxides of nitrogen (NO_x), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO_2), oxygen (O_2), methane (CH_4) 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_x 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, Inc. 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_2S and total reduced sulfur compounds) by ASTM D-5504, and HHV, F-factor, fixed gases, volatile organic compounds (VOCs), nonmethane organic compounds (NMOCs) and $\text{C}_1\text{-C}_{6+}$ 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 (NO₂) concentrations are determined by passing the sample through a catalyst which reduces the NO₂ to NO. The total oxides of nitrogen concentration (NO₂ + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO_x analyzer NO₂ 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 _x 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 of 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 ALT-097 Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer

This is an acceptable alternative to EPA Method 25A for the determination of total hydrocarbons, methane, and non-methane organic compounds in stationary source emissions.



The test uses a TECO 55C GC/FID methane/non-methane analyzer. Heated Teflon sample gas transfer lines are used to provide a continuous sample to the 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. A system linearity check is performed prior to testing and during testing and calibration drift checks are performed after every run. All data is corrected according to EPA Method 25A.

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 CO₂ are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO₂ 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). The sulfur content of the landfill gas was used to calculate outlet SO₂ concentrations. Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed within 7 days.



3.5. Instrumentation and Analytical procedures

The following continuous emissions analyzers were used:

Instrumentation	Parameter	Principle
TECO Model 42C	NO _x /NO/NO ₂	Chemiluminescence
Servomex Model 1400	CO ₂	Infrared (IR)
TECO Model 48C	CO	Gas Filter Correlation/IR
Servomex Model 1400	O ₂	Paramagnetic
TECO Model 55C	NMOC/CH ₄	Flame Ionization (FID)

The analyzer data recording system consists of a data acquisition system (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**



A Tabulated Results

TABLE 1

Guadalupe Recycling and Disposal Facility (GRDF)

Flare A-17

1,516°F - Condensate ON

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/1/24	2/1/24	2/1/24		
Test Time	0829-0905	0925-1001	1034-1111		
Standard Temperature, °F	70	70	70		
Process Parameters:					
Flare Temperature, °F	1,514	1,516	1,517	1,516	
Condensate Injection, gpm	0.9	0.9	0.9	0.9	
Fuel:					
Fuel Flow Rate, SCFM	1,864	1,862	1,862	1,863	
Fuel Heat Input, MMBtu/hr	49.9	50.7	45.5	48.7	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	17,407	18,320	15,813	17,180	
Oxygen (O ₂), % volume dry	11.2	11.5	11.1	11.3	
Carbon Dioxide (CO ₂), % volume dry	8.2	8.0	8.4	8.2	
Water Vapor (H ₂ O), % volume (EPA Method 4)	11.3	6.5	9.8	9.2	
NO_x Emissions (reported as NO₂):					
NO _x , ppmvd	17.0	17.4	16.4	16.9	
NO _x , ppmvd @ 15% O ₂	10.3	11.0	9.9	10.4	15
NO _x , lb/hr	2.11	2.28	1.85	2.08	
CO Emissions:					
CO, ppmvd	3.6	3.1	3.9	3.5	
CO, ppmvd @ 15% O ₂	2.2	2.0	2.3	2.2	81
CO, lb/hr	0.27	0.25	0.27	0.26	
Total Reduced Sulfurs (ASTM 5504):					
Total Reduced Sulfurs as H ₂ S, ppmv in Fuel	843	800	830	824	
Sulfur Dioxide (SO ₂) Emissions, ppmvd (calculated)	90.3	81.3	97.7	89.4	300
THC Emissions (reported as CH₄):					
THC, ppmv wet (EPA Method ALT-097)	<14.2	<11.0	<11.0	<12.1	
THC, ppmvd	<16.0	<11.8	<12.2	<13.3	
THC, lb/hr	<0.690	<0.535	<0.479	<0.568	
Methane (CH₄) Emissions:					
CH ₄ , ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd	<11.3	<10.7	<11.1	<11.0	
CH ₄ , lb/hr	<0.432	<0.455	<0.393	<0.426	
NMOC Emissions (reported as CH₄):					
NMOC, ppmv wet (EPA Method ALT-097)	4.2	<1.0	<1.0	<2.1	
NMOC, ppmvd	4.7	<1.1	<1.1	<2.3	
NMOC, ppmvd @ 3% O ₂	7.7	<1.9	<1.8	<3.8	30*
NMOC, lb/hr	0.180	<0.045	<0.039	<0.088	
Inlet Hydrocarbons (reported as CH₄):					
Inlet NMOC, ppmvd (EPA Method 25C)	1,256	1,245	809	1,103	
Inlet NMOC, lb/hr	5.81	5.75	3.74	5.10	
NMOC Destruction Efficiency, %	>96.91%	>99.21%	>98.95%	>98.36%	>98%*
Inlet CH ₄ , % (ASTM D-1945)	440,000	448,000	402,000	430,000	
Inlet CH ₄ , lb/hr	2,036	2,071	1,858	1,988	
CH₄ Destruction Efficiency, %	>99.98%	>99.98%	>99.98%	>99.98%	>99%
Inlet THC (TOC), %	441,256	449,245	402,809	431,103	
Inlet THC (TOC), lb/hr	2,042	2,077	1,862	1,993	
THC (TOC) Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

DEFINITIONS:

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_x = oxides of nitrogen, reported as NO₂ (MW = 46)

CO = carbon monoxide (MW = 28)

THC = TOC = total hydrocarbons including CH₄, reported as CH₄ (MW = 16)NMOC = non-methane organic compounds, reported as CH₄ (MW = 16)

CALCULATIONS:

ppm @ 15% O₂ = ppm · 5.9 / (20.9 - %O₂)ppm @ 3% O₂ = ppm · 17.9 / (20.9 - %O₂)

lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R

NMOC, ppm as CH₄ = THC · CH₄

Destruction Efficiency (DE) = (inlet, lb/hr - outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range

* NMOC permit limits are 30 ppmvd @ 3% O₂ or DE >98%

Table #2

Guadalupe Recycling and Disposal Facility (GRDF)

Flare A-17

1,519°F - Condensate OFF

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	2/1/24	2/1/24	2/1/24		
Test Time	1239-1315	1335-1415	1433-1511		
Standard Temperature, °F	70	70	70		
Process Parameters:					
Flare Temperature, °F	1,519	1,518	1,519	1,519	
Condensate Injection, gpm	0.0	0.0	0.0	0.0	
Fuel:					
Fuel Flow Rate, SCFM	1,900	1,908	1,912	1,907	
Fuel Heat Input, MMBtu/hr	49.6	50.3	51.0	50.3	
Stack Gas:					
Exhaust Flow Rate, DSCFM (EPA Method 19)	16,023	19,690	20,111	18,608	
Oxygen (O ₂), % volume dry	12.61	12.26	12.29	12.39	
Carbon Dioxide (CO ₂), % volume dry	8.04	8.16	7.76	7.99	
Water Vapor (H ₂ O), % volume (EPA Method 4)	6.56	7.80	7.17	7.18	
NO_x Emissions (reported as NO₂):					
NO _x , ppmvd	13.5	13.9	13.6	13.7	
NO _x , ppmvd @ 15% O ₂	9.6	9.5	9.3	9.5	15
NO _x , lb/hr	1.55	1.95	1.96	1.82	
CO Emissions:					
CO, ppmvd	<2.0	<2.0	<2.0	<2.0	
CO, ppmvd @ 15% O ₂	<1.4	<1.4	<1.4	<1.4	81
CO, lb/hr	<0.14	<0.17	<0.17	<0.16	
Total Reduced Sulfurs (ASTM 5504):					
Total Reduced Sulfurs as H ₂ S, ppmv in Fuel	770	406	766	647	
Sulfur Dioxide (SO ₂) Emissions, ppmvd (calculated)	91.3	39.3	72.8	66.3	300
THC Emissions (reported as CH₄):					
THC, ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
THC, ppmvd	<10.7	<10.8	<10.8	<10.8	
THC, lb/hr	<0.426	<0.530	<0.538	<0.498	
Methane (CH₄) Emissions:					
CH ₄ , ppmv wet (EPA Method ALT-097)	<10.0	<10.0	<10.0	<10.0	
CH ₄ , ppmvd	<10.7	<10.8	<10.8	<10.8	
CH ₄ , lb/hr	<0.398	<0.489	<0.499	<0.462	
NMOC Emissions (reported as CH₄):					
NMOC, ppmv wet (EPA Method ALT-097)	7.9	5.0	4.1	5.7	
NMOC, ppmvd	8.5	5.5	4.4	6.1	
NMOC, ppmvd @ 3% O ₂	17.2	10.4	8.6	12.0	30*
NMOC, lb/hr	0.316	0.246	0.205	0.256	
Inlet Hydrocarbons (reported as CH₄):					
Inlet NMOC, ppmvd (EPA Method 25C)	1,100	707	1,287	1,031	
Inlet NMOC, lb/hr	5.19	3.35	6.11	4.88	
NMOC Destruction Efficiency, %	>93.91%	>92.65%	>96.64%	>94.40%	>98%*
Inlet CH ₄ , % (ASTM D-1945)	429,000	434,000	439,000	434,000	
Inlet CH ₄ , lb/hr	2,023	2,056	2,084	2,054	
CH₄ Destruction Efficiency, %	>99.98%	>99.98%	>99.98%	>99.98%	>99%
Inlet THC (TOC), %	430,100	434,707	440,287	435,031	
Inlet THC (TOC), lb/hr	2,029	2,059	2,090	2,059	
THC (TOC) Destruction Efficiency, %	>99.98%	>99.97%	>99.97%	>99.98%	

DEFINITIONS:

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_x = oxides of nitrogen, reported as NO₂ (MW = 46)

CO = carbon monoxide (MW = 28)

THC = TOC = total hydrocarbons including CH₄, reported as CH₄ (MW = 16)NMOC = non-methane organic compounds, reported as CH₄ (MW = 16)

CALCULATIONS:

ppm @ 15% O₂ = ppm · 5.9 / (20.9 - %O₂)ppm @ 3% O₂ = ppm · 17.9 / (20.9 - %O₂)

lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R

NMOC, ppm as CH₄ = THC · CH₄

Destruction Efficiency (DE) = (inlet, lb/hr - outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range

* NMOC permit limits are 30 ppmvd @ 3% O₂ or DE >98%