TV Tracking # 999 (Semi-Annual)

1. ☐ RECEIVED IN ENFORCEMENT: 01/29/2024

Kirby Canyon Recycling & Disposal Facility
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January 22, 2024

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Bay Area Air Quality Management District
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Attn: Title V Reports
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Director of Enforcement Division
USEPA, Region IX
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SUBJECT: Combined Title V Semi-Annual and Partial 8-34 Annual Report 40 CFR 63 Subpart AAAA Semi-Annual Report
The Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive, San Jose, CA 95037
Facility Number A1812

Dear Sir or Madam:

The Kirby Canyon Recycling & Disposal Facility (KCRDF) is pleased to submit the attached Combined Title V Semi-Annual and Partial 8-34 Annual Report for the period of July 1, 2023, through December 31, 2023, 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 Condition Number 1437 Part 16 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,

The Kirby Canyon Recycling & Disposal Facility

J K Jones

Jessica K Jones
Area General Manager
Northern California / Nevada

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 Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, California 95037
Facility Number A1812
July 1, 2023, through December 31, 2023

Submitted on:
January 29, 2024

Prepared for:
The Kirby Canyon Recycling & Disposal Facility

For Submittal to:
The Bay Area Air Quality Management District
375 Beale Street, Suite 600
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Attn: Title V Reports

and

USEPA, Region 9
75 Hawthorne Street
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Prepared by:

WASTE MANAGEMENT

Kirby Canyon Recycling & Disposal Facility

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1 INTRODUCTION

1.1 Purpose

This document is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report for the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Standard Condition 1.F and Condition Number 1437 Part 16. This Combined Report satisfies the requirements of Regulation 8, Rule 34, Section 411 of the Bay Area Air Quality Management District (BAAQMD) and Title 40 Code of Federal Regulations (CFR) Part 60 Subpart CC, Emission Guidelines (EG) for municipal solid waste (MSW) landfills. This Combined Report meets the requirements of Title V Standard Condition 1.F, BAAQMD Regulation 8-34-411, and 40 CFR §60.757(f) and 40 CFR part 62, Subpart F and OOO and covers compliance activities conducted from July 1, 2023, through December 31, 2023. During the timeframe included in this report from July 1, 2023, through December 31, 2023, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA (effective September 27, 2021) for wellhead temperature and pressure standards. This Combined Report also includes the Semi-Annual Report of Start-up, Shutdown and Malfunction (SSM) Plan activities pursuant to National Emission Standards for Hazardous Air Pollutants (NESHAP), 40 CFR Part 63, Subpart AAAA for Landfills.

Section 2 of this Combined Report contains the elements required to satisfy both BAAQMD Regulation 8-34-411 and 40 CFR §60.757(f). A Performance Test Report for the A-12 Flare that meets the requirements of both BAAQMD Regulation 8-34-413 and 40 CFR §60.758(g) was conducted on March 3, 2023. Section 3 of this Combined Report includes performance test data collected during the reporting period as well as a discussion of the data from the Performance Test for the A-12 Flare, in compliance with BAAQMD Regulation 8-34-412, and Title V Permit Condition Number 1437 Parts 12 and 13. The March 3, 2023, Performance Test Report results for the A-12 Flare are included in Appendix O of the Combined Report.

Section 4 contains the Semi-Annual Report of SSM Plan activities.

1.2 Record Keeping and Reporting

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

1.3 Report Preparation

This Combined Report has been prepared by the KCRDF.

2 SEMI-ANNUAL MONITORING REPORT

In accordance with the KCRDF Title V Permit Standard Condition 1.F; Condition 1437, Part 16; BAAQMD Regulation 8-34-411 and 40 CFR §60.757(f), this report is a Combined Semi-Annual Title V Report and Partial 8-34 Annual Report that is required to be submitted by the KCRDF. 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 July 1, 2023, through December 31, 2023. The following table lists the rules and regulations that are required to be included in this Combined Report.

Table 2-1 Semi-Annual 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 & C
8-34-501.2 §60.757(f)(3)	All emission control system downtime and the reason for the shutdown.	Section 2.2, Appendix B
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 D
8-34-501.4, 8-34-510	Testing performed to satisfy any of the requirements of this Rule.	Sections 2.4 & 2.10, Appendix E
8-34-501.5, 8-34-505	Monthly landfill gas (LFG) flow rates and well concentration readings for facilities subject to 8-34-404.	Sections 2.5, 2.10 & 2.11, Appendices I & 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, Appendices F & G
8-34-501.7	Annual waste acceptance rate and current amount of waste in place.	Section 2.8
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 Collection and Control Design Plan.	Section 2.9
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, Appendices I & 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, Appendix 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

Table 2-1 (Continued)

RULE	REQUIREMENT	LOCATION IN REPORT
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 2.13
§60.10 (d)(5)(i)	Start-up, Shutdown, and Malfunction Events	Section 4, Appendices B & C
§63	Subpart AAAA	Section 2.10

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

Appendix A contains a map of the KCRDF's existing landfill GCCS. Section 2.1.1 summarizes the collection system downtime. Section 2.1.2 includes the individual well shutdown times and the reason for each shutdown.

2.1.1 Collection System Downtime

During the period covered in this report, the landfill GCCS was not shut down for more than five days on any one occasion. The total GCCS Downtime for the reporting period of July 1, 2023, through December 31, 2023, is 23.7 hours. The downtime for the 2023 calendar year is 97.7 hours out of an allowable 240 hours per year pursuant to BAAQMD Regulation 8-34-113.2 (Limited Exemption, Inspection and Maintenance). The Flare SSM Log that list dates, times, and lengths of shutdowns for the reporting period is included in Appendix B.

2.1.2 Well Start-Up and Disconnection Log

There were ten (10) Well SSM events during the reporting period. Wellfield construction activity is discussed in Section 2.13.

The Wellfield SSM Log that list dates, times, and lengths of shutdowns for the reporting period is included in Appendix C.

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

No bypassing of the control system or other emissions of raw LFG occurred during the reporting period. The SSM Log that includes all downtimes and reasons for each shutdown for the A-12 Flare is presented in Appendix B. As indicated in Section 2.1.1, the collection system downtime for the 2023 calendar year (July 1, 2023, through

December 31, 2023) is 97.7 hours out of an allowable 240 hours per year pursuant to BAAQMD Regulation 8-34-113.2 (Limited Exemption, Inspection and Maintenance).

During the reporting period, KCRDF submitted the BAAQMD Reportable Compliance Activity Form for temporary flare shutdown events on August 14, 2023 (RCA Number 08U00), September 27, 2023 (RCA Number 08V07), and September 29, 2023 (RCA Number 08V16), caused due to unplanned utility power interruption. The standby emergency generator was started and GCCS was back online. KCRDF submitted the 30-day breakdown report letters and the Title V 10 and 30-day letters. Copies of submitted letters are included in Appendix J.

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

Title 40 CFR §60.757(f)(2) is not applicable at the KCRDF because a bypass 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)

The A-12 Flare is subject to continuous temperature monitoring as required in BAAQMD Regulation 8-34-507 and §60.757(f)(1). See Section 2.3 for flare temperature monitoring results.

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

The combustion zone temperature of the A-12 Flare is monitored with Type K Thermocouples. The temperature is displayed and digitally recorded with a General Electric (GE) data panel and Yokogawa FX112 continuous digital recorder. The temperature readings are downloaded and archived each working day.

Flare operating records indicate that the A-12 Flare three-hour average combustion zone temperature did not drop below the 1,400 degrees Fahrenheit (°F) limit, as required by Title V Permit A1812 Condition 1437 Part 10, during the reporting period when the A-12 Flare was in operation.

The flare operating records also indicate that the A-12 Flare combustion zone temperature did not drop below 1,433°F on a three-hour average basis, while in operation during the other reporting periods, pursuant to the limits established during the March 3, 2023, Performance Tests.

Appendix D contains flare temperature deviation/ inoperative monitor reports for the reporting period while the A-12 Flare was in operation.

2.4 Monthly Cover Integrity Monitoring (BAAQMD 8-34-510)

The Monthly Cover Integrity Monitoring Reports are included in Appendix E. The cover integrity monitoring was performed on the following dates:

- July 6, 7, 11, and 20, 2023
- August 1 and 25, 2023
- September 26 and 27, 2023
- October 26, 2023
- November 27, 2023
- December 13, 2023

During the reporting period, site technician noted few locations with seep, surface cracks and erosion. No other areas of concern were found during the reporting period. See Appendix E, Cover Integrity Monitoring Reports for repair details.

2.5 Less than Continuous Operation (BAAQMD 8-34-501.5)

The KCRDF 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:

- Third Quarter 2023 – August 23, 2023
- Fourth Quarter 2023 – November 14, 2023

A Thermo Scientific Toxic Vapor Analyzer 1000 (TVA1000) flame ionization detector (FID) was used to perform the SEM during the Third and Fourth Quarter 2023 events. The landfill surface was monitored along the path delineated on the SEM walking path map. Any areas suspected of having emission problems by visible observations were also monitored. Immediately prior to the Third and Fourth Quarter 2023 monitoring events, the monitoring equipment was calibrated using zero air and 500 parts per million by volume (ppmv) methane (CH_4) calibration gas.

The Third Quarter 2023 routine SEM was performed on August 23, 2023, and eleven (11) exceedances (FID readings greater than 500 ppm CH_4 above background measurements) were detected. The ten-day re-monitoring event was conducted on August 24,2023, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on September 18, 2023, and no exceedances were detected.

The Fourth Quarter 2023 SEM was performed on November 14, 2023, and seven (7) exceedances (FID readings greater than 500 ppm CH_4 above background measurements) were detected. Corrective actions were completed. The ten-day re-monitoring event was conducted on November 20, 2023, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on December 11, 2023, and no exceedances were detected. The Third and Fourth Quarter 2023 SEM Reports are included in Appendix F.

The Fourth Quarter monitoring results also include six (6) exceedance locations detected during the EPA and BAAQMD inspection on November 6, 2023. Corrective actions were completed at all locations. The ten-day re-monitoring event was conducted on November 9, 2023, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on November 29, 2023, and no exceedances were detected. A second review of the affected areas was performed by BAAQMD Inspector Erin Phillips on November 30, 2023, and all locations were found to be in compliance. The Fourth Quarter 2023 Supplemental SEM Report is included in Appendix F.

During the reporting period, BAAQMD issued KCRDF Notice of Violation ("NOV") Number A59797, Dated November 7, 2023, alleged six surface emission locations in excess of 500 parts per million by volume as methane (ppmv) above background that were detected by the EPA and BAAQMD staff during the field inspection on November 6, 2023. KCRDF submitted the 10-day NOV response on November 15, 2023; Title V 10-day letter on November 15, 2023; and Title V 30-day letter on December 4, 2023. Copies of submitted letters are included in Appendix J.

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:

- Third Quarter 2023 – August 23, 2023
- Fourth Quarter 2023 – November 14, 2023

A Thermo Scientific TVA1000 FID was used to perform both the Third and Fourth Quarter 2023 component leak testing events. No exceedances of 1,000 ppm were identified during the Third and Fourth Quarter 2023 monitoring events.

Appendix G contains the Quarterly Component Leak Check Monitoring Reports.

2.8 Solid Waste Placement Records (BAAQMD 8-34-501.7)

The solid waste placement records were reviewed for the timeframe of July 1, 2023, through December 31, 2023. The current waste-in-place figure includes solid waste placed in the landfill through December 31, 2023. A table of monthly totals for the

reporting period is provided in Appendix H. The total waste accepted and placed at the KCRDF landfill did not exceed the 2,600 ton-per-day limit during the reporting period, pursuant to Title V Permit Condition Number 1437, Part 1a. The current waste-in-place tonnage listed below did not exceed the 19.84 million tons limit as required in the Title V Permit Condition Number 1437, Part 1b. Table 2-2 summarizes the solid waste placement records for the reporting period.

Table 2-2 Solid Waste Placement

Waste Placement	Total Waste Landfilled Excluding Cover
July 1, 2023, through December 31, 2023	118,810 tons
Current Waste-In-Place as of December 31, 2023	Approximately 8.55 Million tons

2.9 Non-degradable Waste Acceptance Records (BAAQMD 8-34-501.8)

The GCCS Design Plan for the KCRDF does not include 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 BAAQMD Regulation 8-34-505. Effective September 27, 2021, the site began compliance activities with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards. The well readings for July 1, 2023, through December 31, 2023, are included in Appendix I. 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 (131°F).
- 8-34-305.4 – The oxygen (O_2) concentration in each wellhead shall be less than 5 percent (%) by volume.

The wellhead monitoring was performed on the following dates:

- July 5, 6, and 7, 2023
- August 1, 2, and 3, 2023
- September 1, 5, 6, and 7, 2023
- October 2, 3, 4, and 18, 2023
- November 1, 3, 6, 7, 28, 29, and 30, 2023
- December 3, 4, and 5, 2023

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

Please refer to the Wellfield Deviation Log, included in Appendix K, for exceedance records for the reporting period of July 1, 2023, through December 31, 2023. BAAQMD Regulation 8-34-305 (Wellhead Requirements) requires that each wellhead shall operate under a vacuum; wellhead temperature shall be less than 131°F (55 Degrees Celsius); and either the nitrogen concentration shall be less than 20 percent or the oxygen concentration shall be less than 5 percent. During this reporting period, there were no additional exceedances associated with specific conditions of 40 CFR part 63, Subpart AAAA for wellhead temperature and pressure standards.

2.10.2 Higher Operating Value (HOV) Wells

During the reporting period, the following wells are approved to operate at a higher operating value (HOV) temperature of 145°F: 51, 57, 58, 65, 66, 71, 74, 78, 86, 91, 92, 95, 98, 99, 119, 127, 128, 133, and 135. Wells 56, 75, 76, 87, and 89, are approved to operate at a HOV temperature of 156°F.

Copies of all BAAQMD correspondence are located in Appendix J.

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

The A-12 Flare LFG flow rate is measured continuously with a Kurz flowmeter. The LFG flow is displayed and digitally recorded with a General Electric data panel and Yokogawa FX112 continuous digital recorder. The flow meter is maintained pursuant to the manufacturer's recommendations. The flare flow meter meets the requirements of BAAQMD Regulation 8-34-508 by recording fuel flow at least every fifteen (15) minutes. Appendix D contains the specific details. The flow data for the flare are available for review at the KCRDF. Appendix L contains a summary of the monthly LFG flow rates and heat input for the flare.

Table 2-3 below is a summary of the LFG flow from July 1, 2023, through December 31, 2023, for the A-12 Flare. The A-12 Flare did not exceed the annual heat input rate of 1,087,700 million British Thermal Units (MMBTU), pursuant to Title V Permit A1812 Condition Number 1437, Part 8. The A-12 Flare did not exceed the permitted daily limit of 2,980 million British Thermal Units (BTU) for the duration of this event.

Table 2-3 Total LFG Flow A-12 Flare – July 1, 2023, through December 31, 2023

Emission Control Device	Average Flow (scfm)	Methane (%)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heat Input (MMBTU)
A-12 Flare	1,806	46.6	476,568,118	222,152,228	225,040

scfm = standard cubic feet per minute CH_4 = methane % = percent scf = standard cubic feet
**Methane concentration from March 3, 2023, Source Test for the A-12 Flare.*

2.12 Compliance with Title V Permit Cond. No. 1437, Part 14

The condensate injection rate did not exceed five (5) gallons per minute (gpm) during injection events (excluding startup times).

Table 2-4 summarizes the condensate injection rate and 12-month (consecutive) throughput in gallons for July 1, 2023, through December 31, 2023. Per Title V Permit A1812 Condition Number 1437 Part 14, the 12-month rolling average is below the permitted condensate injection limit of 2.0 million gallons per year. The monthly condensate injection logs are included in Appendix M.

Table 2-4 Condensate Injection Rates

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12-Month Total (gallons)
July 2023	2.3	47,973	799,680
August 2023	1.9	48,704	799,404
September 2023	2.1	56,301	798,994
October 2023	2.0	53,153	783,560
November 2023	2.1	61,944	775,173
December 2023	2.3	90,402	783,855

gpm= gallons per minute

2.13 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 Number A1812 during the reporting period. During the reporting period, no vertical wells were decommissioned. Seven (7) new vertical wells were started pursuant to Title V Permit Condition 1437 Part 6.

As of December 31, 2023, the GCCS system consists of 88 vertical wells, 0 horizontal collectors, and 4 leachate collection risers (LCRS).

2.14 Compliance with Title V Permit Cond. No. 1437, Parts 2 and 3

A total of 1,766.4 tons of contaminated soil containing volatile organic compounds (VOCs) greater than 50 parts per million (ppm) was received during the reporting period. Low-VOC soil (containing less than 50 ppm of VOCs) was received during the reporting period. Required records of soil acceptance are available for review at the KCRDF.

2.15 Compliance with Title V Permit Cond. No. 23022, Part 2

Diesel Engine S-8 (the diesel engine for the portable compressor) is required to be operated less than 1,290 hours during any consecutive 12-month period. S-8 operated

a total of 36 hours during the 12-month period, January 1, 2023, through December 31, 2023. S-8 operated a total of 27 hours during the 6-month reporting period, July 1, 2023, through December 31, 2023. S-8 used a total of approximately 128 gallons of diesel fuel during the 6-month reporting period.

2.16 Compliance with Title V Permit Cond. No. 1437, Part 20

Effective July 2012, the A-12 Flare Sulfur dioxide emissions shall not exceed 300 ppmv and SO_2 (dry) emissions shall not exceed 94.9 tons per year. The total reduced sulfur (TRS) shall not exceed 860 ppmv (dry) expressed as hydrogen sulfide.

To demonstrate compliance with above limits, the site will conduct annual testing of total TRS at the landfill gas main header. The source test data for (source test conducted on March 3, 2023, and February 23, 2022) TRS value was used to calculate the monthly SO_2 emissions in tons. The SO_2 emission did not exceed limit during the reporting period. The SO_2 tons 12-month rolling logs are included in Appendix P.

2.17 Compliance with Title V Permit Cond. No. 25872

To demonstrate compliance with permit limits for Source S-24, Construction & Demolition Debris Stockpile, the total construction & demolition debris accepted at S-24 in any consecutive 12-month period is limited to 104,000 tons and 500 tons for each day. To demonstrate compliance with Source S-25 Green and Wood Waste Stockpile the total combined green waste and wood waste debris accepted at S-25 in any consecutive 12-month period is limited to 250,000 and 4,500 tons each day. During the reporting period, the site did not exceed the permitted annual and daily limits. Required records are available for review at the KCRDF.

3 PERFORMANCE TEST REPORT

In accordance with BAAQMD Regulation 8-34-413 and 40 CFR §60.757(g) in the New Source Performance Standard (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 this Performance Test 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, Appendix O
§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 N

3.1 A-12 Flare Performance Test Results (BAAQMD 8-34-412)

The most recent A-12 Flare Compliance Demonstration Test (Performance Test) was performed on the A-12 Flare by Blue Sky Environmental, LLC on March 3, 2023, pursuant to Title V Permit A1812 Condition Number 1437 Part 12. The Performance Test Report for the A-12 Flare indicates that the flare is in compliance with BAAQMD Regulation 8-34-301.3. As required by BAAQMD Regulation 8-34-301.3, the flare meets the non-methane organic compound (NMOC) emission rate of less than 30 ppmv. Pursuant to Title V Permit A1812 Condition Number 1437 Part 10, the A-12 Flare meets the oxides of nitrogen (NO_x) emission concentration limit of less than 0.06 pounds (lbs)/MMBTU. The A-12 Flare meets the carbon monoxide (CO) emission concentration limit of less than 0.3 lbs/MMBTU, pursuant to Title V Permit A1812 Condition Number 1437 Part 11. Table 3-2 shows the results of the A-12 Flare Performance Test, averaged from six test runs - three with condensate on, and three with condensate off.

The A-12 2023 Source Test Report was submitted to the BAAQMD on April 20,2023, within 60 days of the test date. The source test correspondence and results for the above control device is included in Appendix O.

Table 3-2 A-12 Flare Performance Test Results – March 3, 2023

Condition	Flare (A-12) Average Results		8-34-301.3 limit	Compliance Status
	Condensate ON	Condensate OFF		
NMOC (ppmv @ 3% O_2, as CH_4)	<2.5	<2.5	30 ppmv	In Compliance
NO_x, lbs/MMBTU	0.0488	0.0379	0.06	In Compliance
CO, lbs/MMBTU	0.0763	0.0413	0.30	In Compliance

3.2 Compliance with §60.757(g)(1)

"A diagram of the collection system showing collection system positioning including wells, horizontal collectors…"

A map dated November 30, 2023, of the landfill GCCS showing the positioning 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 KCRDF GCCS has historically provided LFG wells and collectors spaced in accordance with standard industry practices. The A-12 flare, LFG extraction wells, and piping are more than adequate to move the current LFG flow rate. KCRDF will continue to add additional LFG control capacity as necessary with the approval of BAAQMD. The installed collector density appears more than 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.

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. Combined LFG recovery for the reporting period was 1,806 scfm. The current A-12 flare system has the capacity to destroy ~ twice 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 all 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."

There are no segregated areas or accumulations of asbestos material documented for the site in the GCCS Design Plan. Therefore, 40 CFR §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."

Non-productive areas have not been excluded from the coverage of the GCCS. Therefore, 40 CFR §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 A-12 Flare and blower system were installed in October and November 2007 and started up on December 3, 2007. The A-12 Flare and blower system is anticipated to be able to accommodate the expected LFG flow rate over the life of the landfill.

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:

- Third Quarter 2023 – July 24, 2023
- Fourth Quarter 2023 – October 10, 2023

All probes were in compliance with no detections above the 5.0 percent methane limit during the Third and Fourth Quarter 2023 monitoring events. There were no LFG migration occurrences at the KCRDF, and no areas of concern were identified during the Third and Fourth Quarter 2023 monitoring events. The LFG migration monitoring and building monitoring results for both quarterly events are included in Appendix N.

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 KCRDF does not meet the measures of performance set forth in the NSPS/EG, the GCCS will be adjusted or modified in accordance with the NSPS/EG requirements.

4 START-UP, SHUTDOWN, MALFUNCTION REPORT

4.1 SSM Report for the Collection and Control Systems at the KCRDF

The NESHAPS 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 semi-annual reporting period are reported in this section (July 1, 2023-December 31, 2023). The following information is included as required:

- During the reporting period, nineteen (19) A-12 Flare SSM events occurred. During the reporting period. The A-12 Flare shut down and restarted during the reporting period due to the reasons noted in the Flare SSM Log, located in Appendix B.
- During the reporting period, ten (10) wellfield SSM events occurred. Details are included in the Wellfield SSM Log, located in Appendix C.
- During the reporting period, there were zero monitoring/recorder equipment SSM events occurred.
- In all twenty-nine (29) events, automatic systems and operator actions were consistent with the standard operating procedures contained in the SSM Plan.
- No exceedances of any applicable emission limitation in the landfills NESHAP (63.10(d)(5)(i)) occurred.
- 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.***

J K Jones
_____ **01.22.2024**

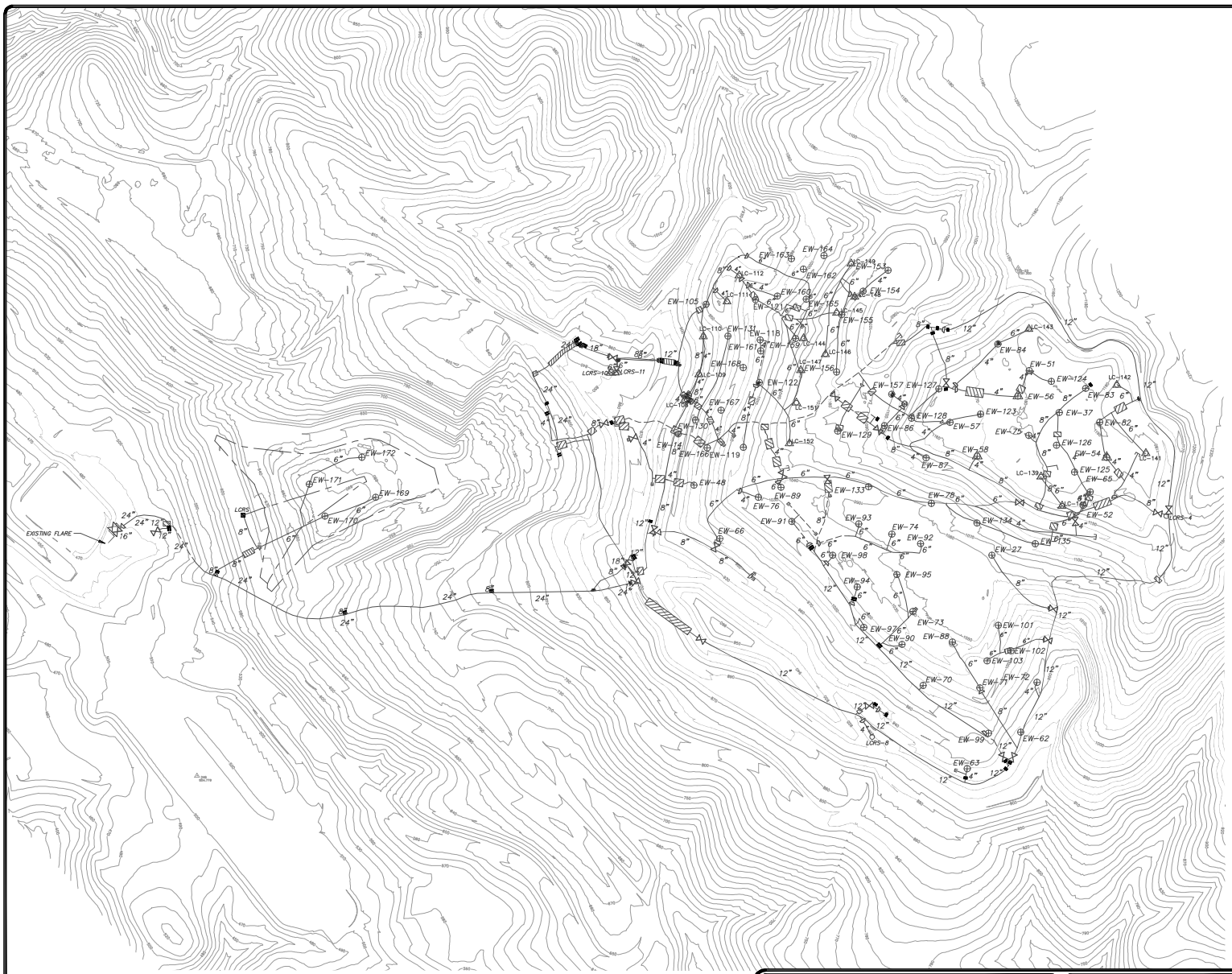
Signature of Responsible Official **Date**

Jessica K Jones

Name of Responsible Official

APPENDIX A

LANDFILL GAS COLLECTION SYSTEM SITE MAP



LEGEND

- EXISTING 10' CONTOUR
- EXISTING ABOVEGROUND PIPING
- EXISTING BELOWGROUND PIPING
- EXISTING HORIZONTAL COLLECTOR
- EXISTING LCRS COLLECTION PIPING
- EW-3 EXISTING LFG EXTRACTION WELL
- LC-108 EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- H6 EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING CONTROL VALVE
- EXISTING BLIND FLANGE
- EXISTING FLANGE CONNECTION
- EXISTING REDUCER FITTING
- EXISTING ROAD CROSSING
- RISER EXISTING RISER
- EXISTING CAP ON EXISTING PIPE
- EXISTING LCRS WELLHEAD

N

0 200 400
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: JANUARY 26, 2023.
2. SUPPLEMENTAL 2016 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JULY 19, 2017. WELL LOCATIONS PER RECORD DRAWINGS WELL SCHEDULE DATED: JULY 13, 2016.
3. 2017 GCCS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: OCTOBER 11, 2017
4. 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 19, 2019 AND DECEMBER 30, 2019
5. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM DATED: JANUARY 27 AND 30, 2020, AND BY SCS ENGINEERS DATED: FEBRUARY 4, 2020.
6. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.
8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021.
9. 2022 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: SEPTEMBER 29, 2022.
10. 2023 GCCS IMPROVEMENTS PRE-CONSTRUCTION SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: MAY 3, 2023.
11. SUPPLEMENTAL 2023 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 22, 2023

RECORD DRAWINGS

WASTE MANAGEMENT

REV.	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 11/30/23
DRAWN BY KT
DESIGNED BY CME
CHECKED BY AMN
APPROVED BY PJS

TETRA TECH

KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 AS-BUILT

AS-BUILT SITE PLAN

SHEET NO. **1**

PROJECT NO. 230053

File: K:\PROJECTS\KIRBY CANYON\230053 - 2023 AS-BUILT UPDATE\Project Drawings\230053-KIRBY CYN_2023 AS BUILT_11.28.23.dwg Layout: S1 User: KEPLER.TIM Nov 30, 2023 - 8:22am

APPENDIX B

FLARE SSM LOG AND GCCS DOWNTIME REPORT

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG
AFFECTED EQUIPMENT: A-12 Flare

Completed By: Rajan Phadnis/Tino Robles

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
SSMP REPORT - From July 1 2023 through December 31, 2023

Identify Flare & Check Applicable Event	(1) Start of Event	(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-12 Flare Startup Event x Shutdown Event Malfunction Event	7/04/23 06:18	7/04/23 06:22	0.07	0.30	Flare shutdown due to low temperature alarm. Flare was restarted. Flare was inspected on the next day.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/4/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	7/04/23 06:36	7/04/23 06:42	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/4/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	7/04/23 06:40	7/04/23 06:44	0.07	0.23	Flare shutdown during startup sequence. Flare was restarted. Flare was inspected on the next day.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/4/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	7/04/23 06:54	7/04/23 07:00	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/4/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	7/25/23 11:58	7/25/23 12:02	0.07	1.30	Flare was shutdown to replace condensate pump. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/25/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	7/25/23 13:16	7/25/23 13:22	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/25/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	7/25/23 15:06	7/25/23 15:10	0.07	0.77	Flare was shutdown to replace booster pump. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/25/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	7/25/23 15:52	7/25/23 15:58	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/25/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	7/26/23 07:14	7/26/23 07:18	0.07	0.17	Flare was shutdown to inspect and check wiring on the condensate pump. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/26/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	7/26/23 07:24	7/26/23 07:30	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	7/26/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	8/14/23 17:12	8/14/23 17:16	0.07	1.47	Flare shutdown during PG&E unplanned power outage. RCA was filed and was assigned RCA number 08U00. Emergency generator was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	8/14/23 18:40	8/14/23 18:46	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	8/14/23 19:00	8/14/23 19:04	0.07	0.33	Flare shutdown due to low temperature alarm. Checked louvers. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	8/14/23 19:20	8/14/23 19:26	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	8/14/23 20:12	8/14/23 20:16	0.07	0.57	Flare shutdown due to low temperature alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	8/14/23 20:46	8/14/23 20:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	8/14/23 20:52	8/14/23 20:56	0.07	0.27	Flare shutdown due to low temperature alarm. Flare was switched back to utility power. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	8/14/23 21:08	8/14/23 21:14	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	8/14/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	9/27/23 11:02	9/27/23 11:06	0.07	0.70	Flare shutdown during PG&E unplanned power outage. RCA was filed and was assigned RCA number 08V07. Emergency generator was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/27/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	9/27/23 11:44	9/27/23 11:50	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/27/2023	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-12 Flare

Completed By: Rajan Phadnis/Tino Robles

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
SSMP REPORT - From July 1 2023 through December 31, 2023

Identify Flare & Check Applicable Event	(1) Start of Event	(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-12 Flare Startup Event x Shutdown Event Malfunction Event	9/27/23 13:48	9/27/23 13:52	0.07	0.20	Flare was shutdown to switch back to utility power. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/27/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	9/27/23 14:00	9/27/23 14:06	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/27/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	9/29/23 11:22	9/29/23 11:26	0.07	0.23	Flare shutdown during PG&E unplanned power outage. RCA was filed and was assigned RCA number 08V16. Emergency generator was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/29/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	9/29/23 11:36	9/29/23 11:42	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/29/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	9/29/23 13:36	9/29/23 13:40	0.07	0.23	Flare was shutdown to switch back to utility power. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/29/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	9/29/23 13:50	9/29/23 13:56	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	9/29/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	10/14/23 19:12	10/14/23 19:16	0.07	14.57	Flare shutdown due to low temperature alarm. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/14/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	10/15/23 09:46	10/15/23 09:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	10/15/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	11/06/23 07:40	11/06/23 07:44	0.07	0.27	Flare was shutdown during PG&E planned power outage event. Emergency generator was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/6/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	11/06/23 07:56	11/06/23 08:02	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/6/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	11/06/23 15:56	11/06/23 16:00	0.07	0.20	Flare was shutdown to switch back to utility power. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/6/2023	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-12 Flare x Startup Event Shutdown Event Malfunction Event	11/06/23 16:08	11/06/23 16:14	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/6/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	11/28/23 17:42	11/28/23 17:46	0.07	0.50	Flare shutdown due to low temperature alarm. Flare restarted and was inspected on the next day.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/28/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	11/28/23 18:12	11/28/23 18:18	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/28/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	12/27/23 07:34	12/27/23 07:38	0.07	0.70	Flare shutdown during breaker trip event caused by leachate pump short. Breaker was reset. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	12/27/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	12/27/23 08:16	12/27/23 08:22	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	12/27/2023	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-12 Flare Startup Event x Shutdown Event Malfunction Event	12/27/23 08:30	12/27/23 08:34	0.07	0.20	Flare shutdown during breaker trip event caused by leachate pump short. Breaker was reset. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	12/27/2023	Manual (Go to Section 9) X Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	12/27/23 08:42	12/27/23 08:48	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	12/27/2023	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)	

TOTAL DOWNTIME From January 1 2023 through December 31, 2023 (HOURS):	**97.7**
TOTAL DOWNTIME From July 1 2023 through December 31, 2023 (HOURS):	**23.7**
TOTAL PERMITTED GCCS DOWNTIME FOR 1 YEAR (HOURS):	**240.0**
TOTAL AVAILABLE RUNTIME From July 1 2023 through December 31, 2023	**4417.0**
TOTAL RUNTIME From July 1 2023 through December 31, 2023 (HOURS):	**4393.3**
RUNTIME PERCENTAGE From From July 1 2023 through December 31, 2023	**99.5%**
SSM Counts :	**19**

*There were 721 hours in November 2023, due to Daylight Saving Time.

(a) **STANDARD OPERATING PROCEDURES**

Shutdown

Procedure No.	Procedure
1	Ensure that there are 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) Press Emergency Stop if necessary Close On/Off switch(es) or Push On/Off button(s) 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 are no unsafe conditions present
2	Ensure that the system is ready to start by one of the following: Valves are in correct position Levels, pressures, and temperatures are within normal starting range Alarms are cleared Power is on and available to control panel and ready to energize equipment. 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 startup 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 -Leaks at wellheads, valves, -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points)	12. Repair leaks or breaks in lines or wellheads 13. Follow procedures for loss of LFG flow/blower 14. Repair blockages in collection piping 15. Repair settlement in collection piping 16. Re-install, repair, or replace piping
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	- Force majeure/Act of God (e.g., lightning, flood, earthquake, etc.) -Area-wide or local blackout or brown-out -Interruption in service (e.g. blown service fuse) -Electrical line failure -Breaker trip -Transformer failure -Motor starter failure/trip -Overdraw of power -Problems in electrical panel -Damage to electrical equipment from on-site operations	17. Check/reset breaker 18. Check/repair electrical panel components 19. Check/repair transformer 20. Check/repair motor starter 21. Check/repair electrical line 22. Test amperage to various equipment 23. Contact electricity supplier 24. Contact/contract electrician 25.Provide auxiliary power (if necessary)
LFG Control Device	Combusts LFG	Low temperature conditions at control device	-Problems with temperature - monitoring equipment -Problems/failure of - thermocouple and/or -Change of LFG flow -Change of LFG quality -Problems with air louvers -Problems with air/fuel controls -Change in atmospheric	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 equipment	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/	Monitors and records	Malfunctions of Temperature	-Problems with thermocouple	40. Check/adjust/repair thermocouple

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
Recording Device	combustion temperature of enclosed combustion device	Monitoring/Recording Device	-Problems with device controls and/or wiring -Problems with chart recorder	41. Check/adjust/repair controller and/or wiring 42. Check/adjust/repair electrical panel components 43. Check/repair chart recorder 44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	-Control device smoking (i.e. visible emissions) -Problems with flare insulation -Problems with pilot light system -Problems with air louvers -Problems with air/fuel controllers -Problems with thermocouple -Problems with burners -Problems with flame arrester -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above	45. Site-specific diagnosis procedures 46. Site-specific responses actions based on diagnosis 47. Open manual louvers 48. Clean pitot 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". Notify BAAQMD verbally or by fax within 2 working days after commencing the actions that an event inconsistent with the SSM Plan and which resulted in an exceedance of an applicable emission permit has occured. Follow up in writing to the agency within 7 working days after the end of the event.

APPENDIX C

WELLFIELD SSM LOG

CONTROL DEVICE AND GAS COLLECTION SYSTEM DOWNTIME LOG

AFFECTED EQUIPMENT: Wellfield

Completed By: Rajan Phadnis/Tino Robles

Kirby Canyon Recycling & Disposal Facility, San Jose, CA
SSMP REPORT - From July 1 2023 through December 31, 2023

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:66 Startup Event X Shutdown Event Malfunction Event	9/27/23 08:50	9/27/23 08:52	0.03	1,464.0	Well offline for filling	113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	9/27/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:66 X Startup Event Shutdown Event Malfunction Event	11/27/23 08:50	11/27/23 08:52	0.03			113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/27/2023	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)	
Well ID Number:97 Startup Event X Shutdown Event Malfunction Event	11/09/23 11:00	11/09/23 11:02	0.03	477.8	Well offline for filling	113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/9/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:97 X Startup Event Shutdown Event Malfunction Event	11/29/23 08:45	11/29/23 08:47	0.03			113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	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)	
Well ID Number:94 Startup Event X Shutdown Event Malfunction Event	11/20/23 12:20	11/20/23 12:22	0.03	213.9	Well offline for filling	113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/20/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:94 X Startup Event Shutdown Event Malfunction Event	11/29/23 10:15	11/29/23 10:17	0.03			113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	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)	
Well ID Number:98 Startup Event X Shutdown Event Malfunction Event	11/20/23 12:20	11/20/23 12:22	0.03	213.2	Well offline for filling	113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/20/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:98 X Startup Event Shutdown Event Malfunction Event	11/29/23 09:35	11/29/23 09:37	0.03			113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	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)	
Well ID Number:169 X Startup Event Shutdown Event Malfunction Event	11/29/23 12:35	11/29/23 12:37	0.03	NA	Startup per PTO Condition Number 1437 Part 6, as modified by Application Number 31447	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:169 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities		Manual (Go to Section 9) Automatic (Go to Section 11)		Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:170 X Startup Event Shutdown Event Malfunction Event	11/29/23 11:55	11/29/23 11:57	0.03	NA	Startup per PTO Condition Number 1437 Part 6, as modified by Application Number 31447	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:170 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities		Manual (Go to Section 9) Automatic (Go to Section 11)		Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:171 X Startup Event Shutdown Event Malfunction Event	11/29/23 12:51	11/29/23 12:53	0.03	NA	Startup per PTO Condition Number 1437 Part 6, as modified by Application Number 31447	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:171 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities		Manual (Go to Section 9) Automatic (Go to Section 11)		Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:172 X Startup Event Shutdown Event Malfunction Event	11/29/23 12:25	11/29/23 12:27	0.03	NA	Startup per PTO Condition Number 1437 Part 6, as modified by Application Number 31447	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:172 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities		Manual (Go to Section 9) Automatic (Go to Section 11)		Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:LR12 X Startup Event Shutdown Event Malfunction Event	11/29/23 13:15	11/29/23 13:17	0.03	NA	Startup per PTO Condition Number 1437 Part 6, as modified by Application Number 31447	113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	11/29/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:LR12 Startup Event Shutdown Event Malfunction Event						113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities		Manual (Go to Section 9) Automatic (Go to Section 11)		Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:95 Startup Event X Shutdown Event Malfunction Event	12/21/23 07:00	12/21/23 07:02	0.03	Pending	Well offline for filling	113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	12/21/2023	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) X No (Stop)	Yes (Go to Section 12) No (Stop)	
Well ID Number:95 Startup Event Shutdown Event Malfunction Event	12/31/23 23:59	1/01/24 00:01	0.03			113: Inspection and Maintenance X 116: Well Raising 117: Gas Collection 118: Construction Activities	12/31/2023	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)	

From July 1 2023 through December 31, 2023 SSM Counts :	10

(a) **STANDARD OPERATING PROCEDURES**

Shutdown

Procedure No.	Procedure
1	Ensure that there are 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) Press Emergency Stop if necessary Close On/Off switch(es) or Push On/Off button(s) 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 are no unsafe conditions present
2	Ensure that the system is ready to start by one of the following: Valves are in correct position Levels, pressures, and temperatures are within normal starting range Alarms are cleared Power is on and available to control panel and ready to energize equipment. 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 startup 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 -Leaks at wellheads, valves, -Collection piping blockages -Problems due to settlement (e.g. pipe separation, deformation, development of low points)	12. Repair leaks or breaks in lines or wellheads 13. Follow procedures for loss of LFG flow/blower malfunction 14. Repair blockages in collection piping 15. Repair settlement in collection piping 16. Re-install, repair, or replace piping
Blower or Other Gas Mover Equipment And Control Device	Collection and control of LFG	Loss of electrical power	- Force majeure/Act of God (e.g., lightning, flood, earthquake, etc.) -Area-wide or local blackout or brown-out -Interruption in service (e.g. blown service fuse) -Electrical line failure -Breaker trip -Transformer failure -Motor starter failure/trip -Overdraw of power -Problems in electrical panel -Damage to electrical equipment from on-site operations	17. Check/reset breaker 18. Check/repair electrical panel components 19. Check/repair transformer 20. Check/repair motor starter 21. Check/repair electrical line 22. Test amperage to various equipment 23. Contact electricity supplier 24. Contact/contract electrician 25.Provide auxiliary power (if necessary)
LFG Control Device	Combusts LFG	Low temperature conditions at control device	-Problems with temperature - monitoring equipment -Problems/failure of -thermocouple and/or thermocouple wiring -Change of LFG flow -Change of LFG quality -Problems with air louvers -Problems with air/fuel controls -Change in atmospheric conditions	26. Check/repair temperature monitoring equipment 27. Check/repair thermocouple and/or wiring 28. Follow procedures for loss of flow/blower malfunction 29. Check/adjust louvers 30. Check/adjust air/fuel controls

EQUIPMENT	PURPOSE	MALFUNCTION EVENT	COMMON CAUSES	PROCEDURE NO. -TYPICAL RESPONSE ACTIONS
LFG Collection and Control System				
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 equipment	31. Check/repair temperature monitoring equipment 32. Check/repair thermocouple 33. Follow procedures for loss of flow/blower malfunction 34. Check/adjust air/fuel controls 35. Check/adjust/repair flame sensor 36. Check/adjust LFG collectors
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	-Problems with orifice plate, pitot tube, or other in-line flow measuring device -Problems with device controls and/or wiring -Problems with chart recorder	37. Check/adjust/repair flow measuring device and/or wiring 38. Check/repair chart recorder 39. Replace paper in chart recorder
Temperature Monitoring/ Recording Device	Monitors and records combustion temperature of enclosed combustion device	Malfunctions of Temperature Monitoring/Recording Device	-Problems with thermocouple -Problems with device controls and/or wiring -Problems with chart recorder	40. Check/adjust/repair thermocouple 41. Check/adjust/repair controller and/or wiring 42. Check/adjust/repair electrical panel components 43. Check/repair chart recorder 44. Replace paper in chart recorder
Control Device	Combusts LFG	Other Control Device Malfunctions	-Control device smoking (i.e. visible emissions) -Problems with flare insulation -Problems with pilot light system -Problems with air louvers -Problems with air/fuel controllers -Problems with thermocouple -Problems with burners -Problems with flame arrester -Alarmed malfunction conditions not covered above -Unalarmed conditions discovered during inspection not covered above	45. Site-specific diagnosis procedures 46. Site-specific responses actions based on diagnosis 47. Open manual louvers 48. Clean pitot 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". Notify BAAQMD verbally or by fax within 2 working days after commencing the actions that an event inconsistent with the SSM Plan and which resulted in an exceedance of an applicable emission permit has occured. Follow up in writing to the agency within 7 working days after the end of the event.

APPENDIX D

FLARE TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORTS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA BAAQMD Rule 34, Section 501

TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORT From July 1 2023 through December 31, 2023

AFFECTED EQUIPMENT: A-12 Flare

REPORT PREPARED BY: Rajan Phadnis **DATE:** January 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 during July 2023						
No deviations during August 2023						
No deviations during September 2023						
No deviations during October 2023						
No deviations during November 2023						
No deviations during December 2023						

Note: The A-12 Flare combustion zone three-hour average temperature did not drop below 1,433°F limit established in the March 3, 2023, Annual Source test, pursuant to Title V Permit A1812 Condition 1437 Part 9, during the reporting period while the flare was in operation.
°F= degrees Fahrenheit
scfm= standard cubic feet per minute

APPENDIX E

COVER INTEGRITY MONITORING REPORTS

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: July 6, 7, 11, and 20, 2023
REPORT DATE: July 25, 2023
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		Seep near wells 162
Surface cracking	X		Near wells 164
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)
Seep near cell 3/4 well 162	07/11/23	Added soil and concrete
Surface cracks near cell 3/4 well 164	07/20/23	Added soil

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

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: August 1 and 25, 2023
REPORT DATE: August 25, 2023
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		Seep near wells 162
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)
Seep near cell 3/4 well 162	-	Please see September 2023 report for repair details

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

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: September 26 and 27, 2023
REPORT DATE: September 27, 2023
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		Seep near wells 162
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)
Seep near cell 3/4 well 162	9.27.2023	Added soil and rock

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

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: October 26, 2023
REPORT DATE: October 26, 2023
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 Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)

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

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: November 27, 2023
REPORT DATE: November 27, 2023
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 Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)

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

Monthly Cover Monitoring

LOCATION: Kirby Canyon Recycling and Disposal Facility
INSPECTION DATE: December 13, 2023
REPORT DATE: December 27, 2023
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		Near well 58 and in cell 7
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	

REPAIR AREAS:

Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)
Erosion seen near well 58 and off main road in cell 7	-	Ops scheduling repairs when area is dried out and safe to access.

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

APPENDIX F

SURFACE EMISSIONS MONITORING REPORTS

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

October 20, 2023

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Third Quarter 2023 Surface Emissions and Component Leak Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the "**Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill"** contains the results of the **Third Quarter 2023 Integrated and Instantaneous** Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by RES Environmental, Inc. (RES). Re-monitoring of surface emissions was conducted by KCRDF 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 Monitoring

- Bay Area Air Quality Management District (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 Assembly Bill 32 (AB32) landfill methane rule (LMR).

KCRDF 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 KCRDF disposal area has been divided into one-hundred-and-fifty (150), approximately 50,000 square foot monitoring grids. 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 25-foot interval walking pattern as depicted the 2011 KCRDF 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.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was 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 FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous 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 3 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

RES 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 2023 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Third Quarter 2023.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on August 23, 2023, 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 11 exceedances of 500 ppm_v as methane detected on August 23, 2023. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on August 24, 2023).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on August 24, 2023. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on September 18, 2023. 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 on August 23, 2023. 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 August 23, 2023, in 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 the initial monitoring event on August 23, 2023.

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 August 23, 2023. 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 chart data is scanned and included in Attachment D.

Precipitation Requirements

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

EQUIPMENT CALIBRATION

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25

ppm_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
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- 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

2023 QUARTER 3

PERFORMED B RES/WM

LANDFILL NAM Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O1	86	8/23/2023	1084ppm	119
O11	71	8/23/2023	596ppm	LR11
O12	99	8/23/2023	590ppm	Surface
O13	107	8/23/2023	611ppm	Surface
O2	66	8/23/2023	680ppm	161
O21	140	8/23/2023	27984ppm	63
O22	58	8/23/2023	567ppm	110
O23	91	8/23/2023	682ppm	Surface
O3	59	8/23/2023	9999ppm	118
O31	107	8/23/2023	776ppm	Surface
O32	106	8/23/2023	1571ppm	Surface

Table A.2
Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)

2023 QUARTER: 3

INITIAL MONITORING PERFORMED B RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments-Well locations
Grid Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
O1	8/23/2023	1084ppm	8/24/2023	Added dirt/pack it/increase becs	8/24/2023	11		9/18/2023	6		119
O11	8/23/2023	596ppm	8/24/2023	Added dirt & pack it	8/24/2023	7		9/18/2023	3		LR11
O12	8/23/2023	590ppm	8/24/2023	Added dirt & Pack it	8/24/2023	9		9/18/2023	14		Surface
O13	8/23/2023	611ppm	8/24/2023	Added dirt & Pack it	8/24/2023	18		9/18/2023	23		Surface
O2	8/23/2023	680ppm	8/24/2023	Added dirt/ water & pack it	8/24/2023	3		9/18/2023	12		161
O21	8/23/2023	27984ppm	8/24/2023	Added dirt/pack it/increase becs	8/24/2023	28		9/18/2023	9		63
O22	8/23/2023	567ppm	8/24/2023	Added dirt/pack it/increase becs	8/24/2023	6		9/18/2023	13		110
O23	8/23/2023	682ppm	8/24/2023	Added dirt & pack it	8/24/2023	14		9/18/2023	43		Surface
O3	8/23/2023	9999ppm	8/24/2023	Added dirt/ water & pack it	8/24/2023	17		9/18/2023	10		118
O31	8/23/2023	776ppm	8/24/2023	Added dirt & Pack it	8/24/2023	28		9/18/2023	11		Surface
O32	8/23/2023	1571ppm	8/24/2023	Added dirt & Pack it	8/24/2023	23		9/18/2023	19		Surface

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

2023 QUARTER: 3

INITIAL MONITORING PERFORMED BY: RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments-Well locations
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
86	8/23/2023	1084ppm	8/24/2023	11					119
71	8/23/2023	596ppm	8/24/2023	7					LR11
99	8/23/2023	590ppm	8/24/2023	9					Surface
107	8/23/2023	611ppm	8/24/2023	18					Surface
66	8/23/2023	680ppm	8/24/2023	3					161
140	8/23/2023	27984ppm	8/24/2023	28					63
58	8/23/2023	567ppm	8/24/2023	6					110
91	8/23/2023	682ppm	8/24/2023	14					Surface
59	8/23/2023	9999ppm	8/24/2023	17					118
107	8/23/2023	776ppm	8/24/2023	28					Surface
106	8/23/2023	1571ppm	8/24/2023	23					Surface

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

2023 QUARTER: 3
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon 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)

2023 QUARTER: Q3
INITIAL MONITORING PERFORMED **RES**
FOLLOW-UP MONITORING PERFORMED BY: Tino Robles
LANDFILL NAME: Kirby Canyon **Wind Direction: S** **Wind Direction: NW**
Wind Speed: 5 **Wind Speed: 5**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	WELL
O1	8/23/2023	1084ppm	8/24/2023	Added dirt/pack it/increase becs	8/24/2023	11		9/18/2023	6		119
O11	8/23/2023	596ppm	8/24/2023	Added dirt & pack it	8/24/2023	7		9/18/2023	3		LR11
O12	8/23/2023	590ppm	8/24/2023	Added dirt & Pack it	8/24/2023	9		9/18/2023	14		Surface
O13	8/23/2023	611ppm	8/24/2023	Added dirt & Pack it	8/24/2023	18		9/18/2023	23		Surface
O2	8/23/2023	680ppm	8/24/2023	Added dirt/ water & pack it	8/24/2023	3		9/18/2023	12		161
O21	8/23/2023	27984ppm	8/24/2023	Added dirt/pack it/increase becs	8/24/2023	28		9/18/2023	9		63
O22	8/23/2023	567ppm	8/24/2023	Added dirt/pack it/increase becs	8/24/2023	6		9/18/2023	13		110
O23	8/23/2023	682ppm	8/24/2023	Added dirt & pack it	8/24/2023	14		9/18/2023	43		Surface
O3	8/23/2023	9999ppm	8/24/2023	Added dirt/ water & pack it	8/24/2023	17		9/18/2023	10		118
O31	8/23/2023	776ppm	8/24/2023	Added dirt & Pack it	8/24/2023	28		9/18/2023	11		Surface
O32	8/23/2023	1571ppm	8/24/2023	Added dirt & Pack it	8/24/2023	23		9/18/2023	19		Surface

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEISHMAN, MICHELESHAKOR, STEVEN VSIADI, DOUGNI MEDING, ADRIC DELING

Cal Gas Exp. Date: 11-10-23

Date: 8-23-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 51 Precip: 0 Upwind BG: 2.4 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
47	LW	0530	0545	106	0	0	10	
52	ME	0530	0545	141	0	0	10	
53	SV	0530	0545	112	0	0	10	
57	JM	0530	0545	14	0	0	10	
58	ED	0530	0545	567	0	0	10	CC110
59	LW	0545	0600	9,999	0	0	6	WELL 118
64	ME	0545	0600	19	0	0	6	
65	SV	0545	0600	87	0	0	6	
66	JM	0545	0600	680	0	0	6	WELL 161
70	ED	0545	0600	16	0	0	6	
71	LW	0600	0615	596	0	1	4	CR11
72	ME	0600	0615	94	0	1	4	
79	SV	0600	0615	15	0	1	4	
80	JM	0600	0615	45	0	1	4	
81	ED	0600	0615	71	0	1	4	
86	LW	0615	0630	1084	0	0	4	WELL 119
87	ME	0615	0630	140	0	0	4	
94	SV	0615	0630	75	0	0	4	
95	JM	0615	0630	61	0	0	4	
102	ED	0615	0630	54	0	0	4	
110	LW	0630	0645	68	0	0	4	
111	ME	0630	0645	41	0	0	4	
117	SV	0630	0645	32	0	0	4	
118	JM	0630	0645	26	0	0	4	
119	ED	0630	0645	41	0	0	4	
125	LW	0645	0700	29	0	0	5	
126	ME	0645	0700	34	0	0	5	
127	SV	0645	0700	36	0	0	5	
128	JM	0645	0700	28	0	0	5	
133	ED	0645	0700	51	0	0	5	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHWAY, JOSHUA MEDINA
MICHAEL ESTRADA, EDDIE DELAS
STEVEN VASQUEZ

Cal Gas Exp. Date: 11-10-23

Date: 8-23-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 75 Precip: 0 Upwind BG: 2.4 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
134	LW	0700	0715	27	0	0	3	
135	ME	0700	0715	46	0	0	3	
136	SV	0700	0715	18	0	0	3	
137	JM	0700	0715	29	0	0	3	
138	ED	0700	0715	44	0	0	3	
139	LW	0715	0730	27	0	0	4	
140	ME	0715	0730	27,984	0	0	4	EW63
141	SV	0715	0730	29	0	0	4	
142	JM	0715	0730	54	0	0	4	
143	ED	0715	0730	26	0	0	4	
144	LW	0730	0745	39	0	0	6	
145	ME	0730	0745	45	0	0	6	
146	SV	0730	0745	30	0	0	6	
147	JM	0730	0745	22	0	0	6	
148	ED	0730	0745	33	0	0	6	
145	LW	0745	0800	41	0	1	5	
150	ME	0745	0800	36	0	1	5	
76	SV	0745	0800	91	0	1	5	
77	JM	0745	0800	107	0	1	5	
84	ED	0745	0800	113	0	1	5	
91	LW	0800	0815	682	4	7	6	SLF GCT
92	ME	0800	0815	96	4	7	6	
98	SV	0800	0815	111	4	7	6	
99	JM	0800	0815	590	4	7	6	SLF GCT
106	ED	0800	0815	1571	4	7	6	SLF GCT
107	LW	0815	0830	776	4	6	6	SLF GCT
113	ME	0815	0830	127	4	6	6	
121	SV	0815	0830	54	4	6	6	
129	JM	0815	0830	77	4	6	6	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Lashnick

Cal Gas Exp. Date: _____

Date: 8-23-23 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	
36								Active trash
37								
38								
41								
42								
43								
44								
48								
49								
54								
55								
60								
61								
67								
68								
73								
74								
75								
82								
83								
88								
89								
90								
96								
97								
103								
104								
105								
112								
120								

Attach Calibration Sheet

Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leis Lwnor

Cal. Gas Exp. Date:

Date: 8-23-23 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	
101								
109								
116								
124								
132								
1								NO WASTE IN PLACE
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE

Cal Gas Exp. Date: _____

Date: 8-23-23 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	
26								No waste in plan
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
85								Active trash
93								Active trash
100								Active trash
108								No waste in plan
114								
115								
122								
123								
130								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leish Wint _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 8-23-23 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	
131								

Attach Calibration Sheet
Attach site map showing grid ID

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year:	3RD 2023
Technician:	CENSHWAOT
Instrument:	TVA1000
Calibration Standard:	500 PPM

Page of Pages

Initial Monitoring Event				First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			Comments
Flag Number	Grid Number	Field Reading (ppm)	Date Monitored	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
~~0-~~ 11	71	596	8-23-23										WELL LR11
~~0-~~ 12	99	590											SURFACE
~~0-~~ 13	107	611											SURFACE
~~0-~~ 31	107	776											SURFACE
~~0-~~ 32	106	1571											SURFACE
~~0-~~ 21	140	27,984											EW63
~~0-~~ 22	58	567											WELL CC11D
~~0-~~ 23	91	682											SURFACE
~~0-~~ 1	86	1084											WELL 119
~~0-~~ 2	66	680											WELL 161
0- 3	59	9,995	↓										WELL 118
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													
0-													

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2023
Quarter: 3RD

IME Date	IME Location ID	IME Concentration (ppm)
8-23-23	KCLC0108	57
	KCLC0109	45
	KCLC0110	567
	KCLC0111	71
	KCLC0112	50
	KCLC0139	ACTIVE TRASH
	KCLC0140	ACTIVE TRASH
	KCLC0141	ACTIVE TRASH
	KCLC0142	ACTIVE TRASH
	KCLC0143	ACTIVE TRASH
	KCLC0145	65
	KCLC0147	30
	KCLC0149	41
	KCLC0151	87
	KCLC0152	51
	KCLC0153	47
	KCLC0154	82
	KCLC0155	30
	KCLC0156	27
	KCLC0157	28
	KCYN0014	39
	KCYN0027	27
	KCYN0048	ACTIVE TRASH
	KCYN0051	65
	KCYN0054	ACTIVE TRASH
	KCYN0056	ACTIVE TRASH
	KCYN0057	ACTIVE TRASH
	KCYN0058	ACTIVE TRASH
	KCYN0062	65
	KCYN0063	27,984
	KCYN0065	ACTIVE TRASH
	KCYN0066	ACTIVE TRASH
	KCYN0070	45
	KCYN0071	71
	KCYN0072	39
	KCYN0074	50
	KCYN0075	ACTIVE TRASH
	KCYN0076	31
	KCYN0078	ACTIVE TRASH
	KCYN0082	ACTIVE TRASH

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2023
Quarter: 3RD

IME Date	IME Location ID	IME Concentration (ppm)
8-23-23	KCYN0084	ACTIVE TRASH
	KCYN0086	ACTIVE TRASH
	KCYN0087	ACTIVE TRASH
	KCYN0088	40
	KCYN0089	61
	KCYN0090	32
	KCYN0091	28
	KCYN0092	51
	KCYN0093	30
	KCYN0094	27
	KCYN0095	31
	KCYN0097	28
	KCYN0098	51
	KCYN0099	47
	KCYN0101	22
	KCYN0102	61
	KCYN0103	30
	KCYN0105	51
	KCYN0118	9,999
	KCYN0119	1,084
	KCYN0121	ACTIVE TRASH
	KCYN0122	78
	KCYN0123	ACTIVE TRASH
	KCYN0124	ACTIVE TRASH
	KCYN0125	ACTIVE TRASH
	KCYN0126	ACTIVE TRASH
	KCYN0127	ACTIVE TRASH
	KCYN0128	ACTIVE TRASH
	KCYN0129	ACTIVE TRASH
	KCYN0130	65
	KCYN0131	40
	KCYN0133	ACTIVE TRASH
	KCYN0134	81
	KCYN0135	40
	KCYNLR04	ACTIVE TRASH
	KCYNLR08	26
	KCYNLR11	596
	KCYN0162	78
	KCYN0163	51
	KCYN0164	84

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2023
Quarter: 3RD

IME Date	IME Location ID	IME Concentration (ppm)
8-27-23	KCYN0165	39
	KCYN0166	60
	KCYN0167	52
	KCYN0168	81
	KCYN0161	680
	LC-158	47
	LC-159	60
	LC-160	39
	LC-161	680

N

200 100 0 200 400 600

D SIZE: 1"=200' (22"X34")

B SIZE: 1"=400' (11"X17")

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
8-23-23

- GRIDS MONITORED
- ACTIVE-TRASH
- NO WASTE IN PLACE
- SHUTDOWN

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: SEM GRID AND PENETRATION MAP

PROJECT TITLE: SURFACE EMISSIONS MONITORING PLANS
KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT: WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY STE 100
LONG BEACH, CA 90806
(562) 426-9544

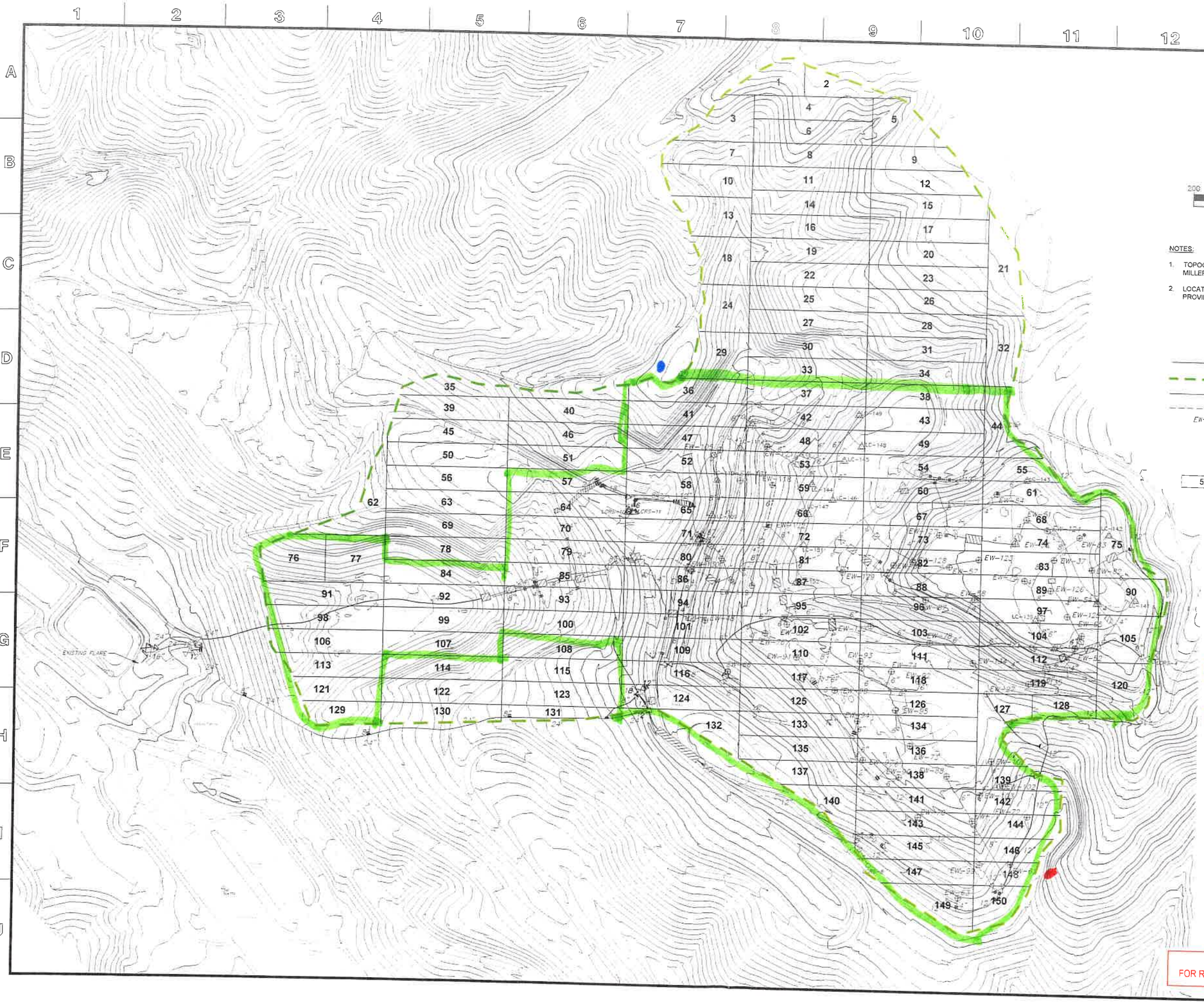
PROJ. NO: 01221102.00 | DWN. BY: ATV/RR | ACAD FILE: N/SALT LAKE
DSN. BY: ATV/RR | CHK. BY: DF | APP. BY:

DATE: 09-02-2021

SCALE: AS SHOWN

3

N:\Salt Lake City\Kirby Landfill\SEM Emissions Monitoring Plans\Kirby Surface Emissions Monitoring Plans.dwg Sep 02, 2021 - 4:49pm By: ATV/RR



NO.	REVISION	DATE

SHEET TITLE: SEM GRID AND PENETRATION MAP

PROJECT TITLE: SURFACE EMISSIONS MONITORING PLANS
KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
MORGAN HILL, CALIFORNIA

CLIENT: WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY STE 100
LONG BEACH, CA 90806
(562) 426-9544

PROJ. NO	01221102.00	DWN. BY	ATV/RR
DSN. BY	ATV/RR	CHK. BY	DF
ACAD FILE	N:\SALT LAKE	APP. BY	

DATE: 09-02-2021

SCALE: AS SHOWN

3

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Attachment B

Integrated Surface Emission Monitoring Event Records

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

2023 QUARTER: 3
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: N/A
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial Monitoring Event			**1st Re-mon Event - 10 Days**			
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	**Comments**
None						

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHWADE | JOVANI MEDINA
MIGUELESTRADA | EDDIE DELIRA
STEVEN VASADI

Cal. Gas Exp. Date: 11-10-23

Date: 8-23-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 90 Precip: 0 Upwind BG: 2.4 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
47	LW	0840	0905	12.18	2	3	10	
52	ME	0840	0905	9.71	2	3	10	
53	SV	0840	0905	18.64	2	3	10	
58	JM	0840	0905	12.98	2	3	10	
59	ED	0840	0905	17.45	2	3	10	
57	LW	0905	0930	4.10	3	5	8	
64	ME	0905	0930	5.21	3	5	8	
65	SV	0905	0930	13.78	3	5	8	
66	JM	0905	0930	14.97	3	5	8	
70	ED	0905	0930	4.25	3	5	8	
71	LW	0930	0955	11.65	3	5	10	
72	ME	0930	0955	20.32	3	5	10	
79	SV	0930	0955	5.11	3	5	10	
80	JM	0930	0955	9.60	3	5	10	
81	ED	0930	0955	14.55	3	5	10	
86	LW	0955	1020	7.23	2	5	10	
87	ME	0955	1020	9.51	2	5	10	
94	SV	0955	1020	11.70	2	5	10	
95	JM	0955	1020	13.61	2	5	10	
102	ED	0955	1020	10.45	2	5	10	
110	LW	1020	1045	6.84	3	5	8	
111	ME	1020	1045	5.96	3	5	8	
117	SV	1020	1045	7.35	3	5	8	
118	JM	1020	1045	5.49	3	5	8	
119	ED	1020	1045	7.60	3	5	8	
125	LW	1045	1110	6.13	4	6	10	
126	ME	1045	1110	5.47	4	6	10	
127	SV	1045	1110	4.91	4	6	10	
128	JM	1045	1110	5.07	4	6	10	
133	ED	1045	1110	6.80	4	6	10	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Clif hunor, Miguel Esincol, Steven Vesadi, Jovani Mepins, Eddie De lins

Cal. Gas Exp. Date: 11-10-23

Date: 8-23-23 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 94 Precip: 0 Upwind BG: 2.4 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	REMARKS
135	CW	1110	1135	7.18	4	7	10	
136	ME	1110	1135	5.47	4	7	10	
137	SV	1110	1135	5.81	4	7	10	
138	JM	1110	1135	6.07	4	7	10	
139	ED	1110	1135	5.92	4	7	10	
140	CW	1135	1200	5.40	5	10	9	
141	ME	1135	1200	6.97	5	10	9	
142	SV	1135	1200	5.49	5	10	9	
143	JM	1135	1210	5.20	5	10	9	
144	ED	1135	1200	6.11	5	10	9	
145	CW	1230	1255	5.77	5	9	10	
146	ME	1230	1255	6.09	5	9	10	
147	SV	1230	1255	5.77	5	9	10	
148	JM	1230	1255	6.20	5	9	10	
149	ED	1230	1255	5.38	5	9	10	
150	CW	1255	1320	5.81	5	10	10	
134	ME	1255	1320	6.11	5	10	10	
76	SV	1255	1320	10.40	5	10	10	
77	JM	1255	1320	11.17	5	10	10	
84	ED	1255	1320	15.66	5	10	10	
91	CW	1320	1345	17.30	5	10	10	
92	ME	1320	1345	14.85	5	10	10	
98	SV	1320	1345	16.35	5	10	10	
99	ED	1320	1345	14.50	5	10	10	
106	JM	1320	1345	18.37	5	10	10	
107	CW	1345	1410	14.22	5	10	10	
113	ME	1345	1410	11.75	5	10	10	
121	SV	1345	1410	9.64	5	10	10	
129	JM	1345	1410	9.28	5	10	10	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 2

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leshwnok _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 8-23-23 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	
36								Active-trash
37								
38								
41								
42								
43								
44								
48								
49								
54								
55								
60								
61								
67								
68								
73								
74								
75								
82								
83								
88								
89								
90								
96								
97								
103								
104								
105								
112								
120								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leshwnor _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 8-23-23 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	
85								
93								
100								
101								
109								
116								
124								
132								
1								Downwind in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGHWADE _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 8-23-23 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	
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
114								
122								
130								
108								
115								
123								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leighwaor ______ ______
______ ______ ______
______ ______ Cal. Gas Exp. Date: ______

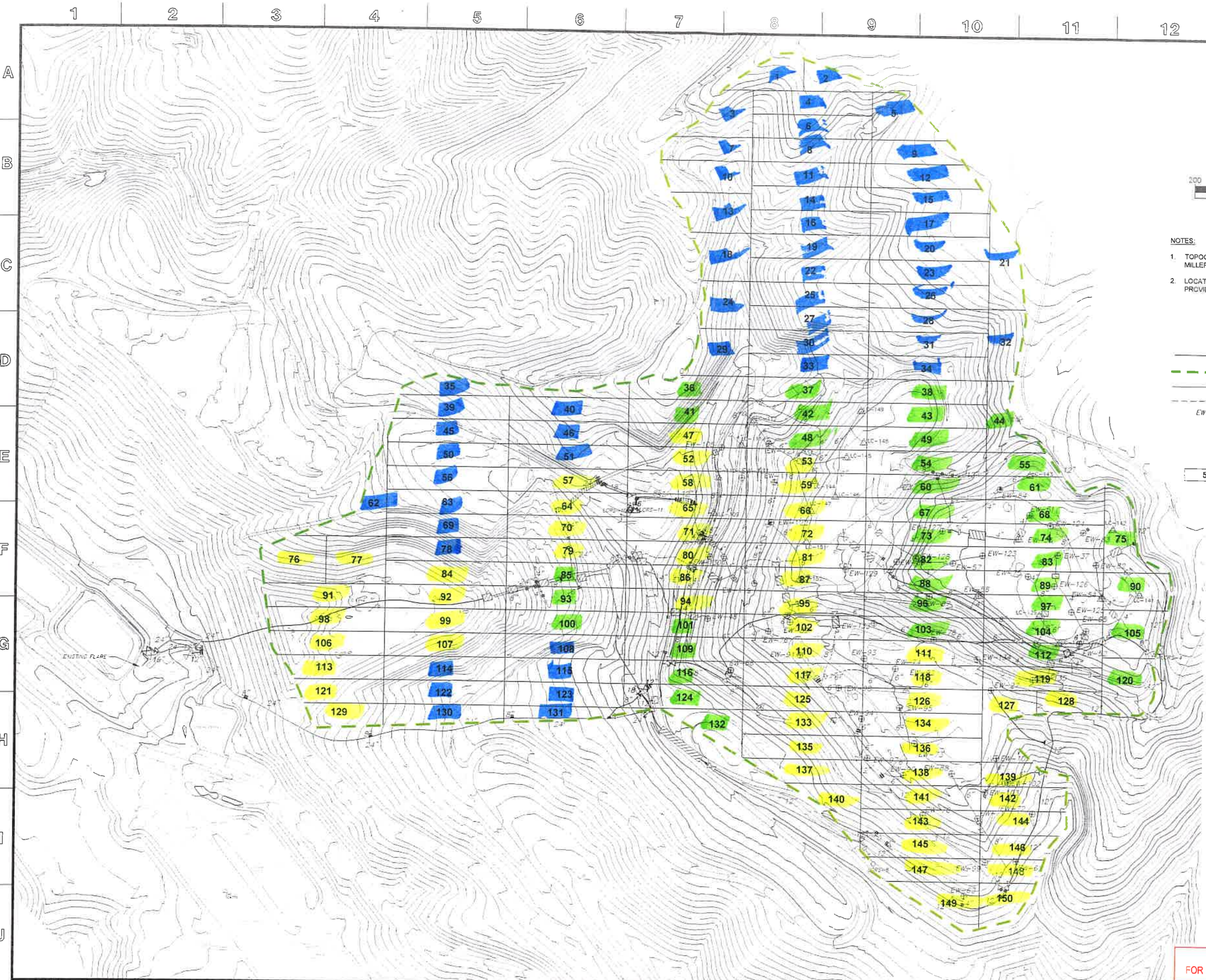
Date: 8-23-23 Instrument Used: ______ Grid Spacing: ______

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	
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 4 of 4



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

PRELIMINARY PLAN
FOR REVIEW AND PLANNING PURPOSES ONLY

NO.	REVISION	DATE

SHEET TITLE: SEM GRID AND PENETRATION MAP

PROJECT TITLE: SURFACE EMISSIONS MONITORING PLANS KIRBY CANYON RECYCLING AND DISPOSAL FACILITY MORGAN HILL, CALIFORNIA

CLIENT: WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY STE 100
LONG BEACH, CA 90806
(562) 426-9544

PROJ. NO	DWN BY	ACAD FILE	APP. BY
01221102.00	ATV/RR	N:/SALT LAKE	
DSN. BY	CHK. BY		
ATV/RR	DF		

DATE: 09-02-2021

SCALE: AS SHOWN

3

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Attachment C

Component Leak Monitoring Event Records

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

2023 QUARTER: 3
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	08/23/23	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

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

2023 QUARTER: 3
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	08/23/23	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

LANDFILL NAME: KIRBY
QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Thermo Environr
MODEL: TVA 1000
S/N: 1036346773

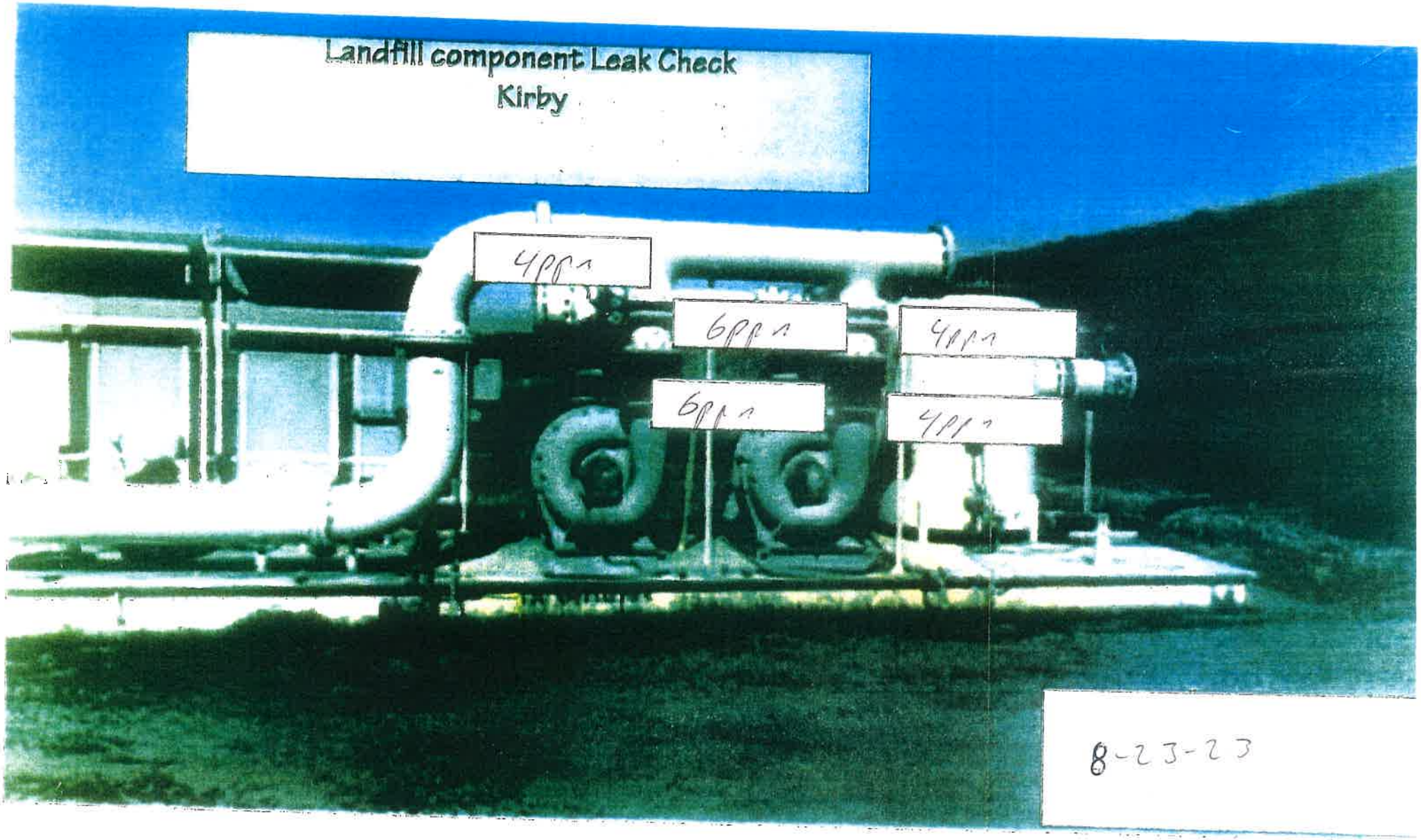
DATE OF SAMPLING: 8-23-23
TECHNICIAN: LEIGH WADE

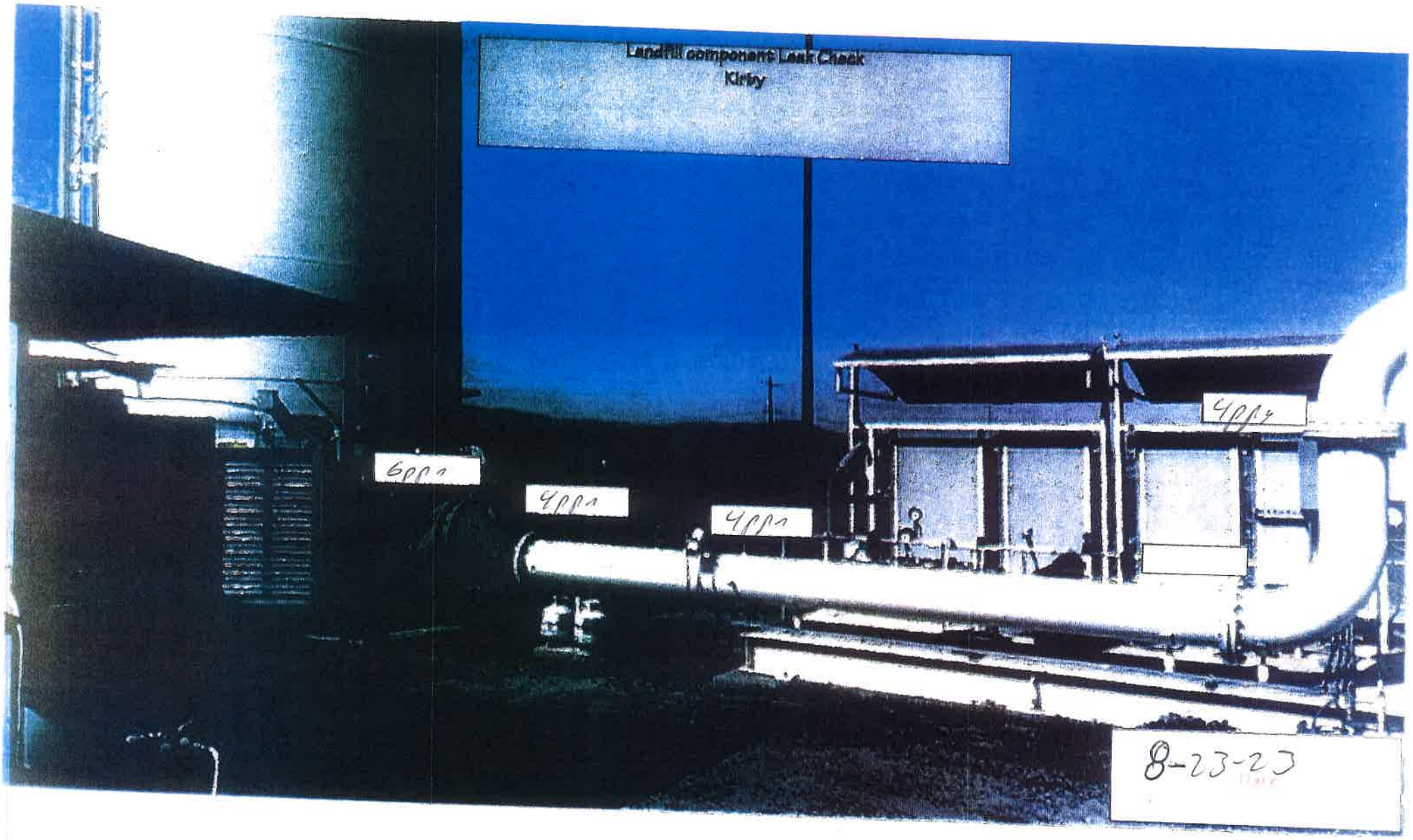
LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES							

In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).

NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.

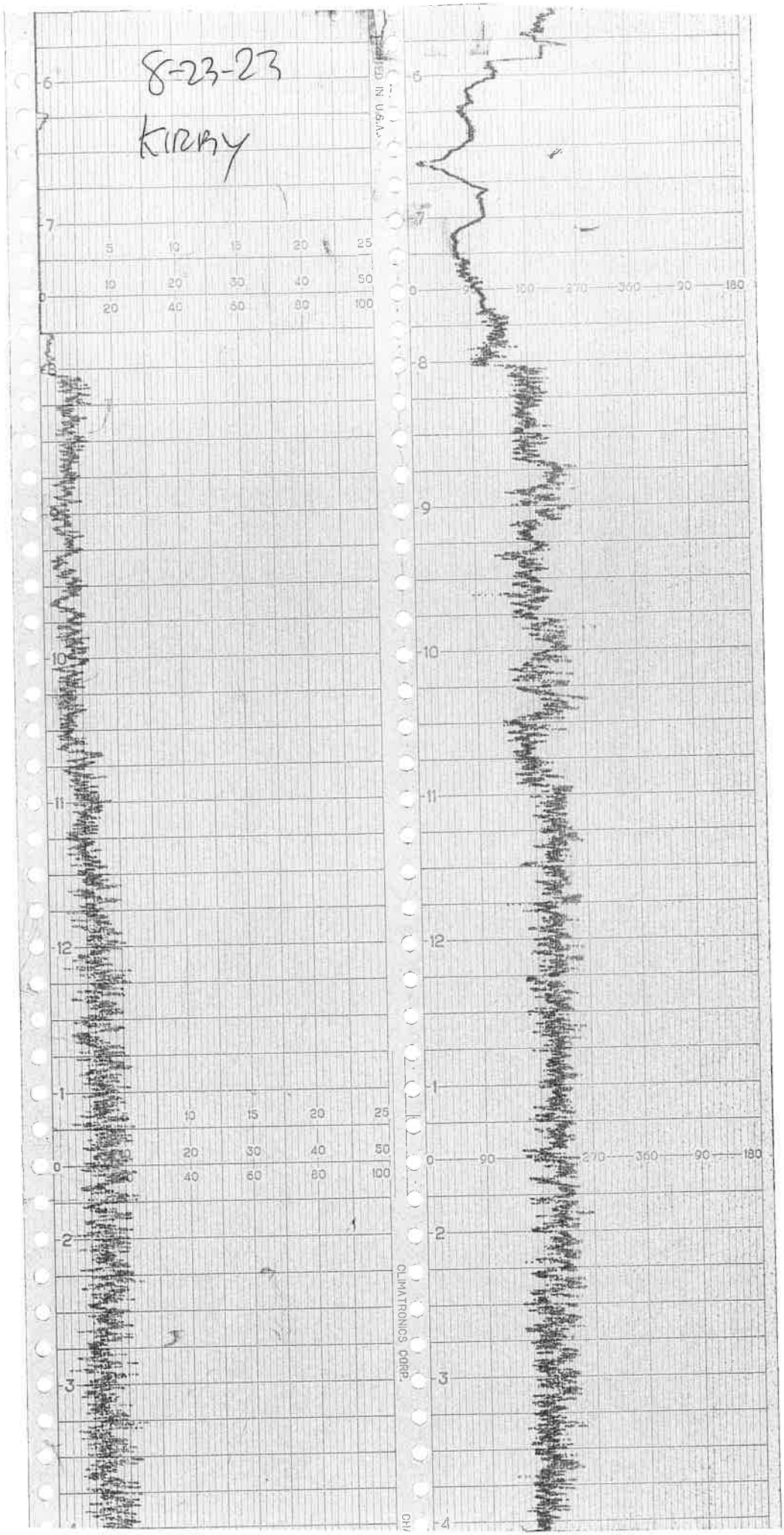

Landfill component Leak Check
Kirby
4PPM
6PPM
4PPM
6PPM
4PPM
8-23-23


Landfill component Leak Check
Kirby
6PPM
4PPM
4PPM
4PPM
8-23-23

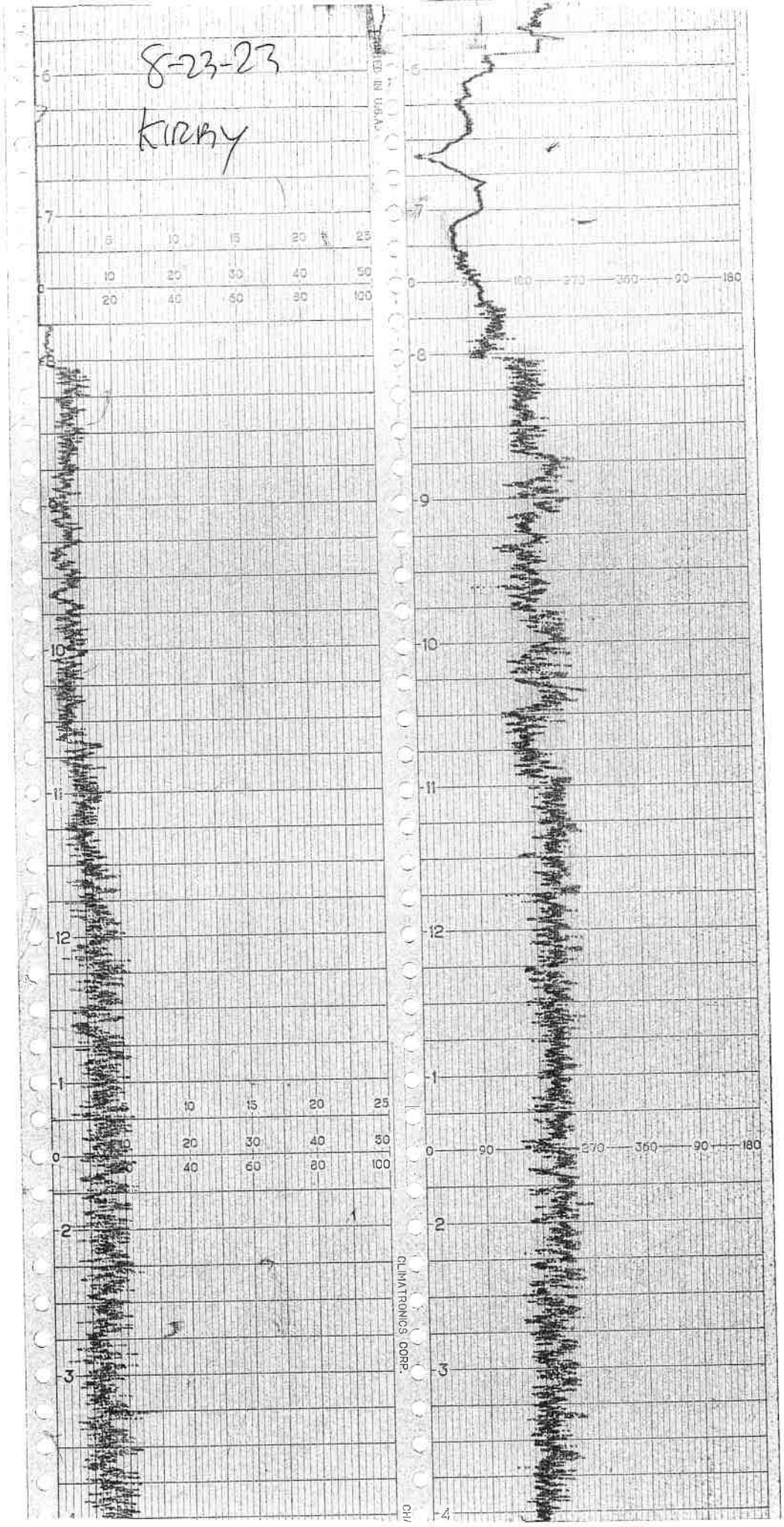
Attachment D

Weather Station Data

WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
16	NORTH (N)	348.8	360.0	011.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056.3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
8	SOUTH (S)	168.8	180.0	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
10	SOUTHWEST (SW)	213.8	225.0	236.3
11	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
14	NORTHWEST (NW)	303.8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

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Attachment E

Calibration Records

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL TVA 1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE: 8-23-23 TIME: 0520

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	490 ppm	440 ppm	6
#2	500 ppm	450 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6 #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	0.13 ppm	490 ppm	10
#2	0.09 ppm	500 ppm	0
#3	0.07 ppm	500 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.66 #DIV/0! Must be less than 10%

Performed By: LOIS WADE Date/Time: 8-23-23 0520

RES

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: HEALNO

MODEL: HVA1000 EQUIPMENT # = 11 SERIAL # 1036346772

MONITORING DATE: 8-23-23 TIME: 0520

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	502 ppm	452 ppm	5
#2	500 ppm	450 ppm	5
#3	500 ppm	450 ppm	5
Calculate Response Time (1+2+3) / 3			5 #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	0.10 ppm	502 ppm	2
#2	0.06 ppm	500 ppm	0
#3	0.05 ppm	500 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.13 #DIV/0! Must be less than 10%

Performed By: Miguel Estacio Date/Time: 8-23-23-0520

RES

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 8-23-23 TIME: 0520

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	496 ppm	446 ppm	6
#2	501 ppm	451 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time (1+2+3)/3			6 #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	0.45 ppm	496 ppm	4
#2	0.02 ppm	501 ppm	1
#3	0.02 ppm	510 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			6.33 #DIV/0! Must be less than 10%

Performed By: STEVEN VESNOI Date/Time: 8-23-23-0520

RES

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 8-23-23 TIME: 0520

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	489 ppm	439 ppm	4
#2	501 ppm	451 ppm	4
#3	500 ppm	450 ppm	4
Calculate Response Time (1+2+3)/3			4 #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	0.11 ppm	489 ppm	11
#2	0.06 ppm	501 ppm	1
#3	0.04 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		3.80 #DIV/0! Must be less than 10%

Performed By: JOVENI MEDINA Date/Time: 8-23-23-0520

KIES

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME Kirby INSTRUMENT MAKE Thermo

MODEL TVA1000 EQUIPMENT # 16 SERIAL # 1102746776

MONITORING DATE 8-23-23 TIME 0520

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	495 ppm	445 ppm	4
#2	500 ppm	450 ppm	4
#3	500 ppm	450 ppm	4
Calculate Response Time (1+2+3) / 3			4 #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	0.09 ppm	495 ppm	5
#2	0.07 ppm	500 ppm	0
#3	0.05 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.33 #DIV/0! Must be less than 10%

Performed By Eddie Delira Date/Time 8-23-23-0520

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME Kirby INSTRUMENT NAME THermo

MODEL TVA1000 EQUIPMENT ID 10 SERIAL # 1036346773

MONITORING DATE 8-23-23 TIME 0835

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	24 ppm	21.6 ppm	4
#2	25 ppm	22.5 ppm	4
#3	25 ppm	22.5 ppm	4
Calculate Response Time (1+2+3)/3			4 #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	0.10 ppm	24 ppm	1
#2	0.08 ppm	25 ppm	0
#3	0.06 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1.3 #DIV/0! Must be less than 10%

Performed By Leah Wilt Date/Time 8-23-23 0835

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE THERMO

MODEL TVA1000 EQUIPMENT # 11 SERIAL # 1036346772

MONITORING DATE 8-23-23 TIME 0825

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	23 ppm	20.7 ppm	6
#2	25 ppm	22.5 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time (1+2+3)/3			6 #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	0.18 ppm	23 ppm	2
#2	0.11 ppm	25 ppm	0
#3	0.07 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			2.6 #DIV/0! Must be less than 10%

Performed By MIGUEL ESTRADA Date/Time 8-23-23 0825

LFGS

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT NAME THERMO

MODEL TVA1000 EQUIPMENT # 12 SERIAL # 1036246741

MONITORING DATE 8-23-23 TIME 0835

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	24 ppm	21.6 ppm	6
#2	24 ppm	21.6 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time (1+2+3) / 3			6 #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	0.15 ppm	24 ppm	1
#2	0.09 ppm	25 ppm	0
#3	0.05 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1.3 #DIV/0! Must be less than 10%

Performed By STEVEN VASADI Date/Time 8-23-23 0835

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

ANGRY NAME KIRBY INSTRUMENT NAME THERMO

MODEL TVA1000 EQUIPMENT # 13 SERIAL # 1102746775

MONITORING DATE 8-23-23 TIME 0835

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	23 ppm	20.7 ppm	7
#2	24 ppm	21.6 ppm	7
#3	25 ppm	22.5 ppm	7
Calculate Response Time (1+2+3) / 3			7 #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	0.08 ppm	23 ppm	2
#2	0.06 ppm	24 ppm	1
#3	0.04 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			4.0 #DIV/0! Must be less than 10%

Performed By JOSEPH MEDINA Date/Time 8-23-23 0835

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE 4 Horiba

MODEL MUA1000 EQUIPMENT # 16 SERIAL # 110274676

MONITORING DATE 8-23-23 TIME 0835

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
2.4 ppm	2.8 ppm	2.6 ppm

Background Value = 2.6 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	24 ppm	21.6 ppm	4
#2	25 ppm	22.5 ppm	4
#3	25 ppm	22.5 ppm	4
Calculate Response Time (1+2+3)/3			4 #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	0.09 ppm	24 ppm	1
#2	0.04 ppm	25 ppm	0
#3	0.04 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1.3 #DIV/0! Must be less than 10%

Performed By EDDIE DELIRS Date/Time 8-23-23 0825

RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #10

SERIAL NUMBER: 1036346773

TECHNICIAN: [signature] DATE: 7-7-23

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	0.62	< 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #11

SERIAL NUMBER: 1036346774

TECHNICIAN: [signature] DATE: 7-7-23

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	0.76	< 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

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: NBS Vault #12

SERIAL NUMBER: 1036246741

TECHNICIAN: [signature] DATE: 7-7-23

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	10,011	+/- 2500
< 1	ZERO GAS	0.96	< 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #13

SERIAL NUMBER: 1102746775

TECHNICIAN: MCM DATE: 7-7-23

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	0.63	< 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Van #16

SERIAL NUMBER: 1102746776

TECHNICIAN: MM DATE: 7-7-23

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	10,012	+/- 2500
< 1	ZERO GAS	0.27	< 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.

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 8-4-23 Time: 0845

Model # TVA 1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.3 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-7-23	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 5
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average 5.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to Ch4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 8-4-23 Time: 0900

Model # TVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	211 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-7-23	Time required to attain 90% of Cal Gas ppm: 1. 5 / 2. 5 / 3. 6 / Average 5.3
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

465

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 8-4-23 Time: 0915

Model # TVA 1000

Serial # #12 1036246741

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1.9 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-7-23	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 5
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 5.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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(909) 422-1001 Toll Free (888) 325-1098 Fax (909) 422-0707 www.resenvironmental.com

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: JM JM

Date: 8-4-23 Time: 0930

Model # TVA 1000

Serial # #13 1102746275

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	1.6 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-1-23	Time required to attain 90% of Cal Gas ppm: 1. 5 / 2. 5 / 3. 5 / Average 5.0
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: MM

Date: 8-4-23 Time: 1015

Model # TVA 1000

Serial # #16 1102746776

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.0 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	7-7-23	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 7 / 3. 5
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.0
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to City gas.

Comments: _____

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CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

LANDFILL NAME: _

INSTRUMENT MAKE: Thermo MODEL: TVA1000B S/N: 0928538411

_

Calibration Procedure

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

2. Introduce the calibration gas into the probe.
Stable reading = 505 ppm

3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

2. Downwind Reading (highest in 30 seconds): 3 ppm (2)

Calculate Background Value:

$$\frac{(1) + (2)}{2}$$

Background = 2 ppm

PERFORMED BY: Tino Ribles TIME: 530 AM _____ PM

DATE: 8/24/23

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

LANDFILL NAME: KC RDF

INSTRUMENT MAKE: Thermo MODEL: TVA1000B 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 ppm

3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 2 ppm (1)

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

Calculate Background Value:

$$\frac{(1) + (2)}{2}$$

Background = 4 ppm

PERFORMED BY: Timo Robles TIME: 630 AM _____ PM

DATE: 9/18/23

RESPONSE TIME TEST RECORD

Date: 6/30/23 9/30/23

Expiration Date (3 months): _____

Time: _____ AM 1228 PM

Instrument Make: Thermo Model: TVA1000B S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 8 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: 497 ppm
90% of the Stabilized Reading: 476 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: 501 ppm
90% of the Stabilized Reading: 464 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$\frac{(a)+(b)+(c)}{3}$ = 8 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 9/30/23

Expiration Date (3 months): 9/30/23

Time: _____ AM 1228 PM

Instrument Make: Thermo Model: TVA1000B S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 502 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 500 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1.5 % (must be < than 10%)

Performed By: [signature]


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METHANE 500ppm
AIR BALANCE
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103L @ 70F & 1000 PSIG
Lot# 260447
P/N MET-500-103L
EXP: JAN/2025
TUA
EQUIPCO
SALES & SERVICE
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Concord, CA 94520
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THC <0.2 PPM
Analytical Accuracy +/- 2%
103L @ 70F & 1000 PSIG
Lot# 260362
P/N AIR-ZER-103L
EXP: JAN/2025
TUA
ZERO

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


Service
INC
Concentration (Mole%) Accuracy
- 20.9% Oxygen
- Bal. Nitrogen
Exp Date
7/10/2024
Lot#: 20-7421
P/N:01-100
103 L
Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363
103-01-100
103 L

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

Lot # 17-6074

Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

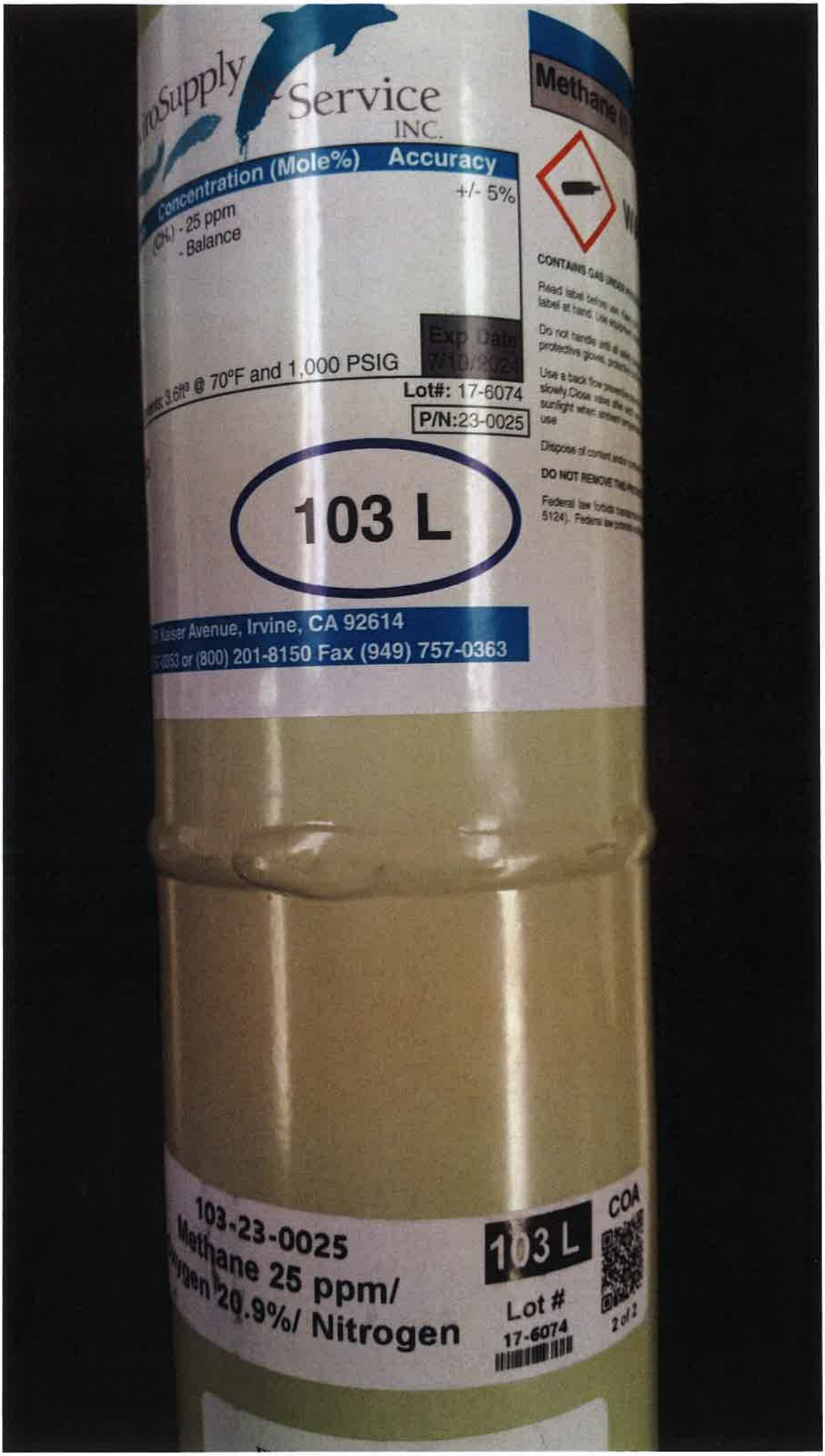
Method of Preparation:

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


Service
INC.
Concentration (Mole%) Accuracy
+/- 5%
(CH4) - 25 ppm
- Balance
Exp Date
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
2 of 2

INTERMOUNTAIN SPECIALTY GASES

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

Lot # 17-6074

Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

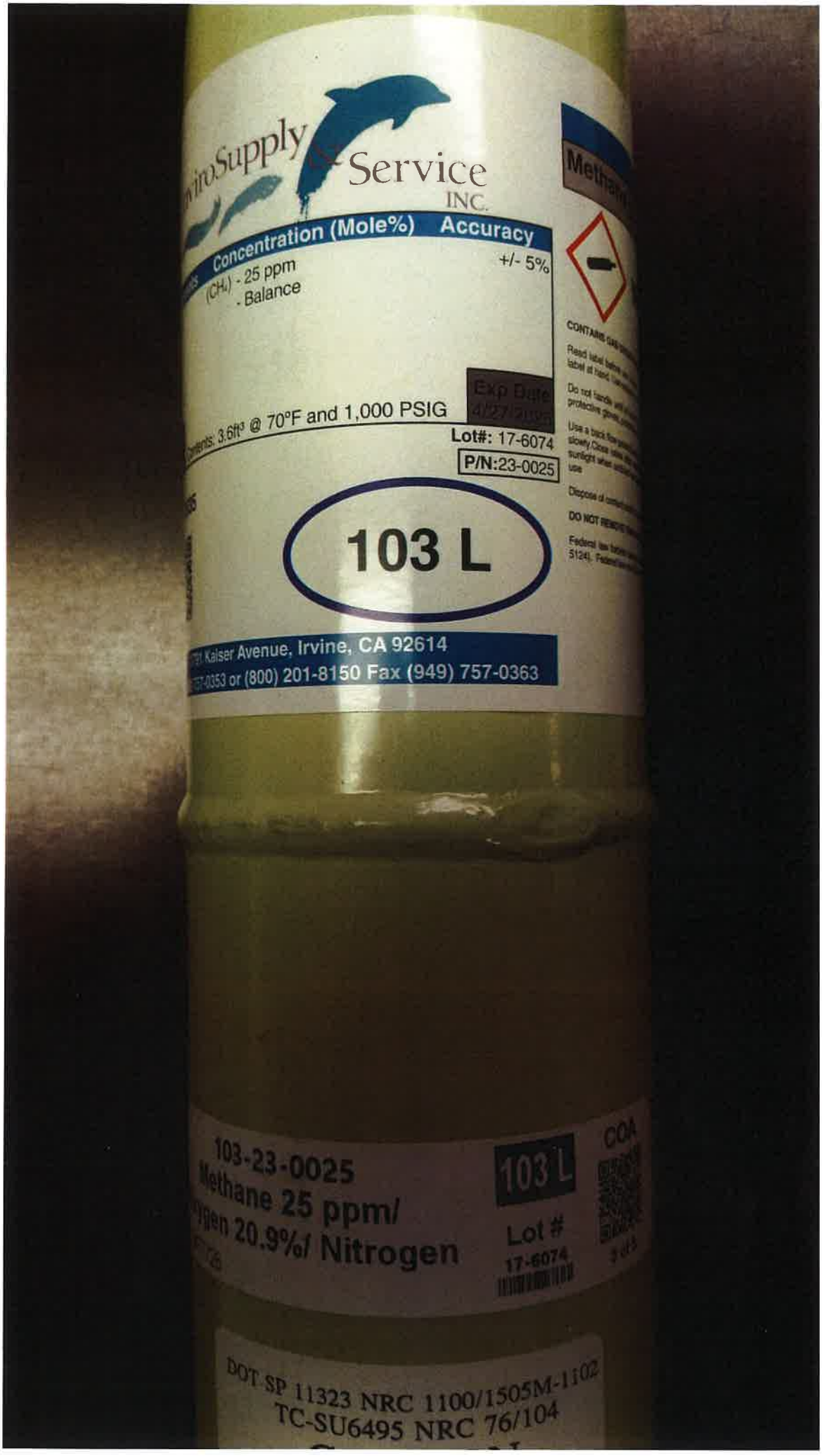
Method of Preparation:

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


Service
INC.
Concentration (Mole%) Accuracy
(CH4) - 25 ppm +/- 5%
- Balance
Exp Date
4/27/2023
Contents: 3.6ft³ @ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
ygen 20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

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Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	**20-7497**
Mfg. Date:	7/10/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	TWC001763

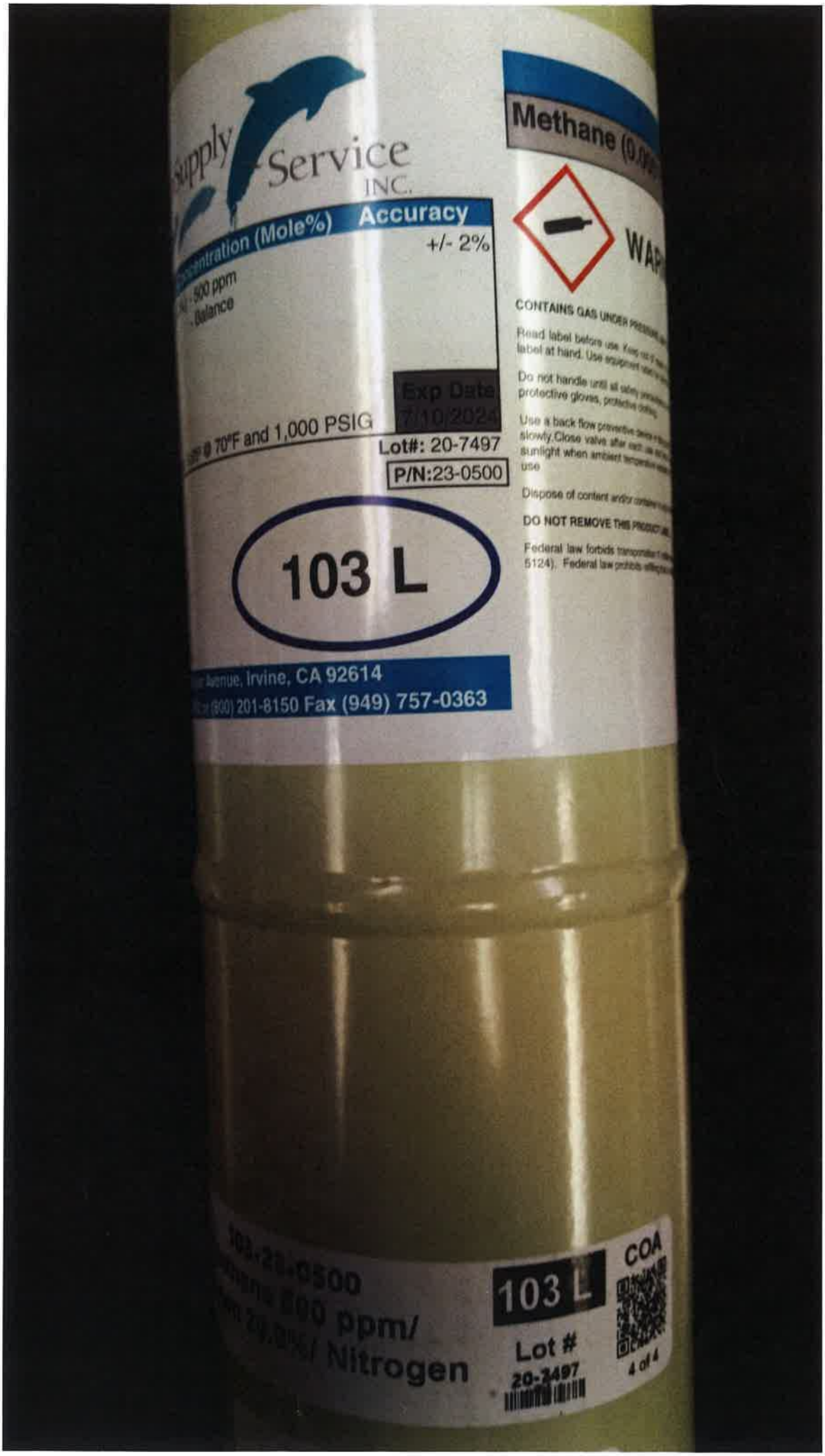
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By:	Tony Janquart
Title:	Quality Assurance Manager
Certificate Date:	7/10/2020


Supply Service
INC.
Methane
Accuracy
+/- 2%
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
CONTAINS GAS UNDER PRESSURE
DO NOT REMOVE THIS PRODUCT
103 L
Lot #
20-2497
COA
4 of 4
Nitrogen

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	500 ppm	± 2%
Air	Balance	

Lot # 19-6955

Mfg. Date: 7/24/2019

Parent Cylinder ID Number: 001763

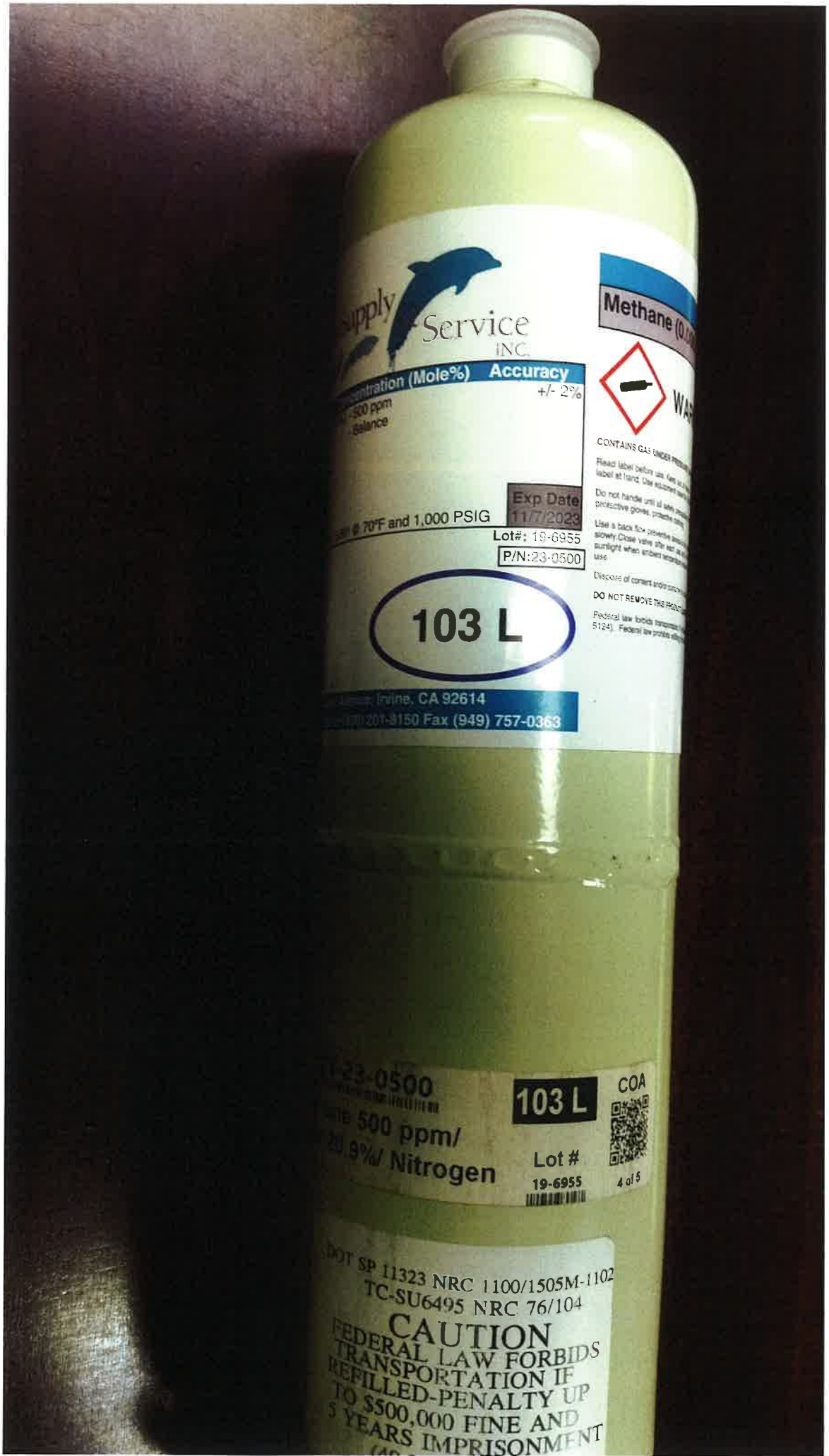
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Quality Assurance Manager
800-552-5003
Certificate Date: 7/24/2019


Supply Service
INC.
Methane
Accuracy
+/- 2%
Exp Date
11/7/2023
Lot#: 19-6955
P/N:23-0500
103 L
Irvine, CA 92614
Fax (949) 757-0363
23-0500
500 ppm/
Nitrogen
103 L
Lot #
19-6955
COA
4 of 5
DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104
CAUTION
FEDERAL LAW FORBIDS
TRANSPORTATION IF
REFILLED-PENALTY UP
TO $500,000 FINE AND
5 YEARS IMPRISONMENT

Nor

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

46400 Continental Drivve
Chesterfield ,MI 48047

Cust Number 07152
Order Number 62891146
PO Number 04548169

Lot Number 9-326-80
Norlab Part# J1971500PA
Cylinder Size 103 Liter
Number of Cyl 1

Customer Part# N/A

Date on Manufacture 12/31/2019
Expires 12/2022
Analytical Accuracy +/- 2 %

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.

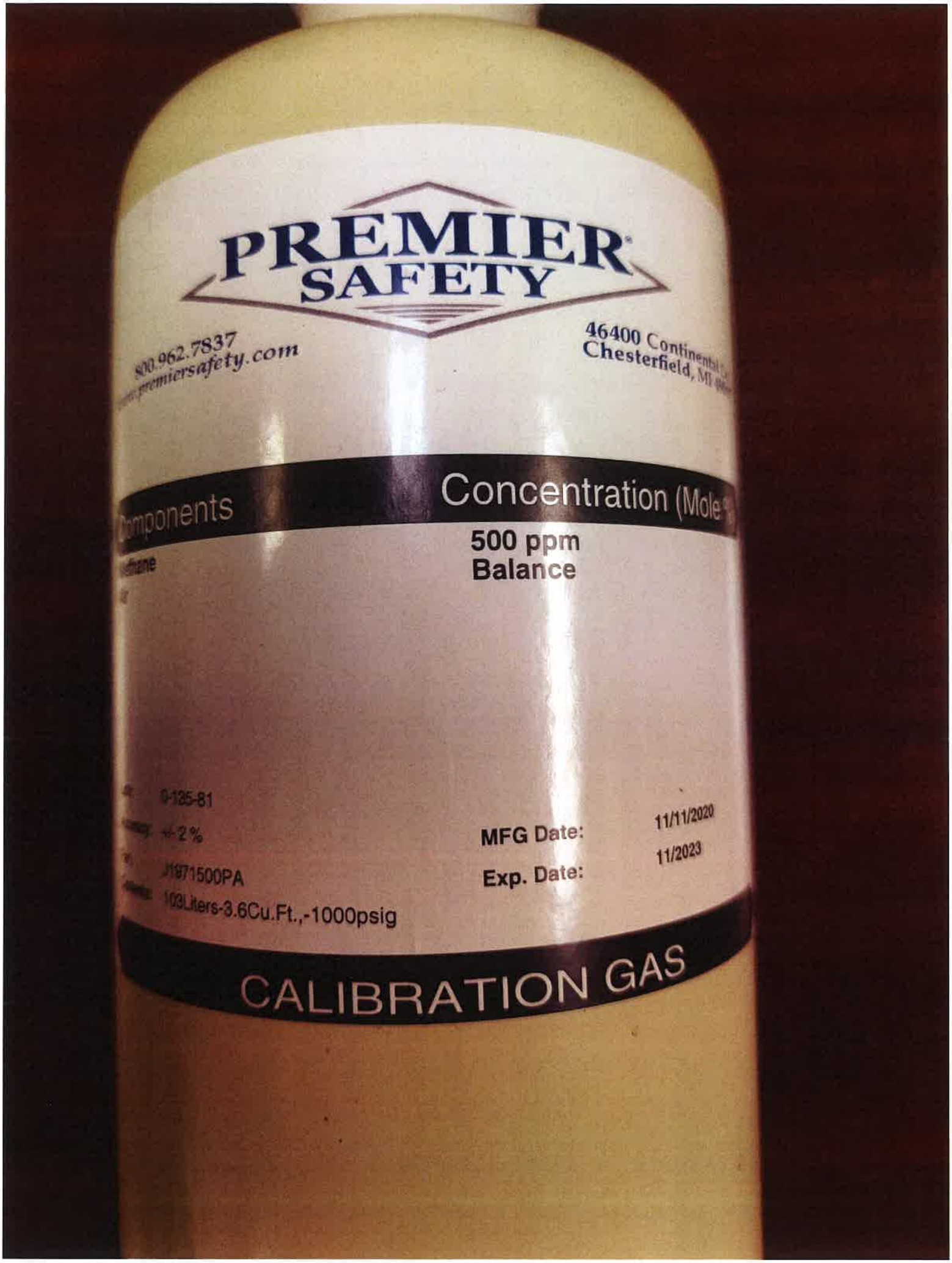
The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers 20180519 and 20180224

Approved: _____ Date Signed: 12/31/2019

David Reed
Lab Technician

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672


PREMIER
SAFETY
800.962.7837
premiersafety.com
46400 Continental
Chesterfield, MI
Components
Concentration (Mole %)
500 ppm
Balance
0-135-81
+/- 2 %
J1971500PA
103Liters-3.6Cu.Ft.,-1000psig
MFG Date:
11/11/2020
Exp. Date:
11/2023
CALIBRATION GAS

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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights 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

Customer Part# N/A

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

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: _____ Date Signed: 6/13/2022
David Reed
Lab Technician

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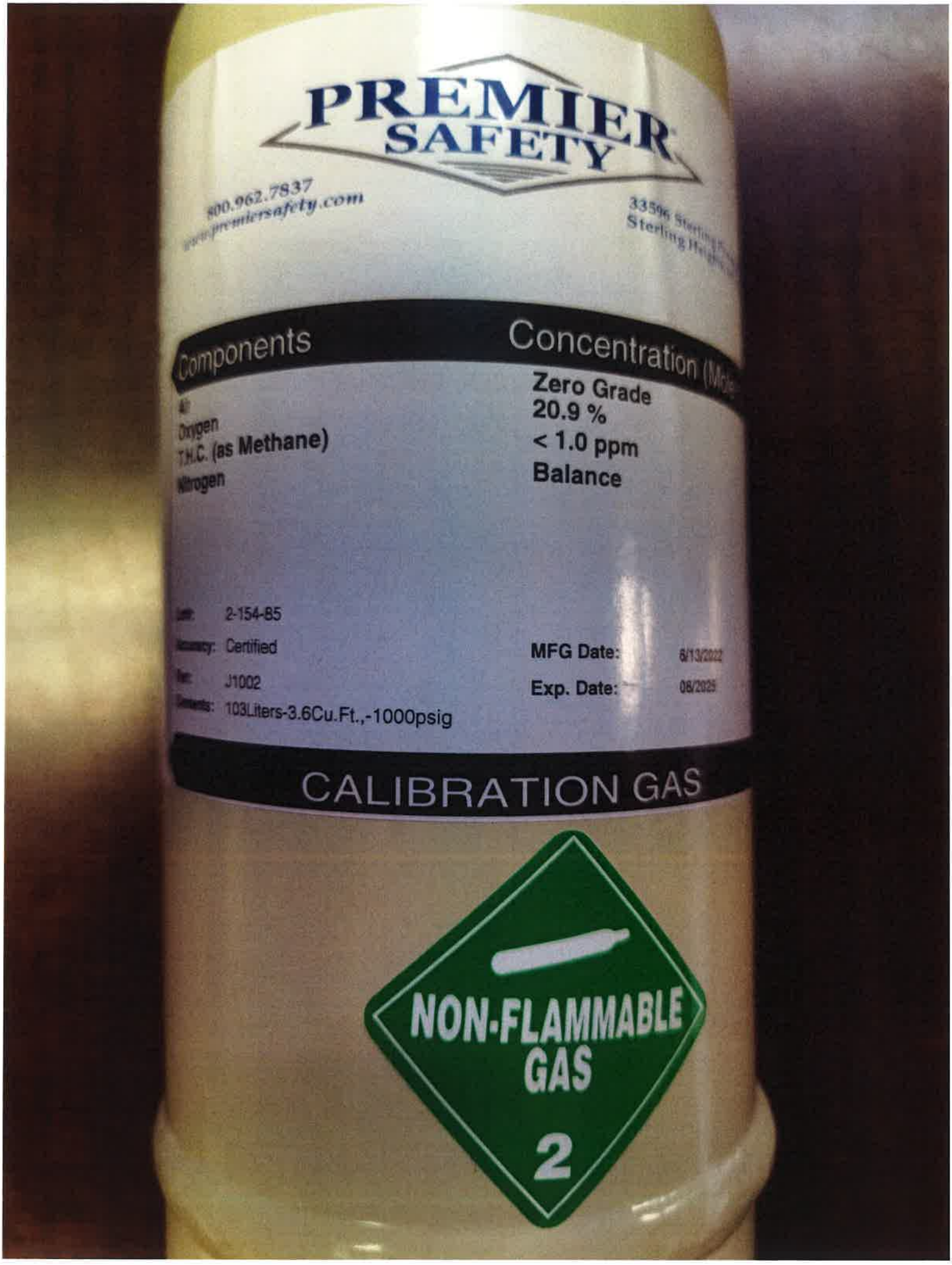
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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www.premiersafety.com
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Sterling Heights
Components
Concentration (Mole
Air
Zero Grade
Oxygen
20.9 %
T.H.C. (as Methane)
< 1.0 ppm
Nitrogen
Balance
Lot: 2-154-85
Accuracy: Certified
MFG Date: 6/13/2022
Test: J1002
Exp. Date: 06/2025
Contents: 103Liters-3.6Cu.Ft.,-1000psig
CALIBRATION GAS
NON-FLAMMABLE
GAS
2

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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights 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

Customer Part# N/A

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

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.

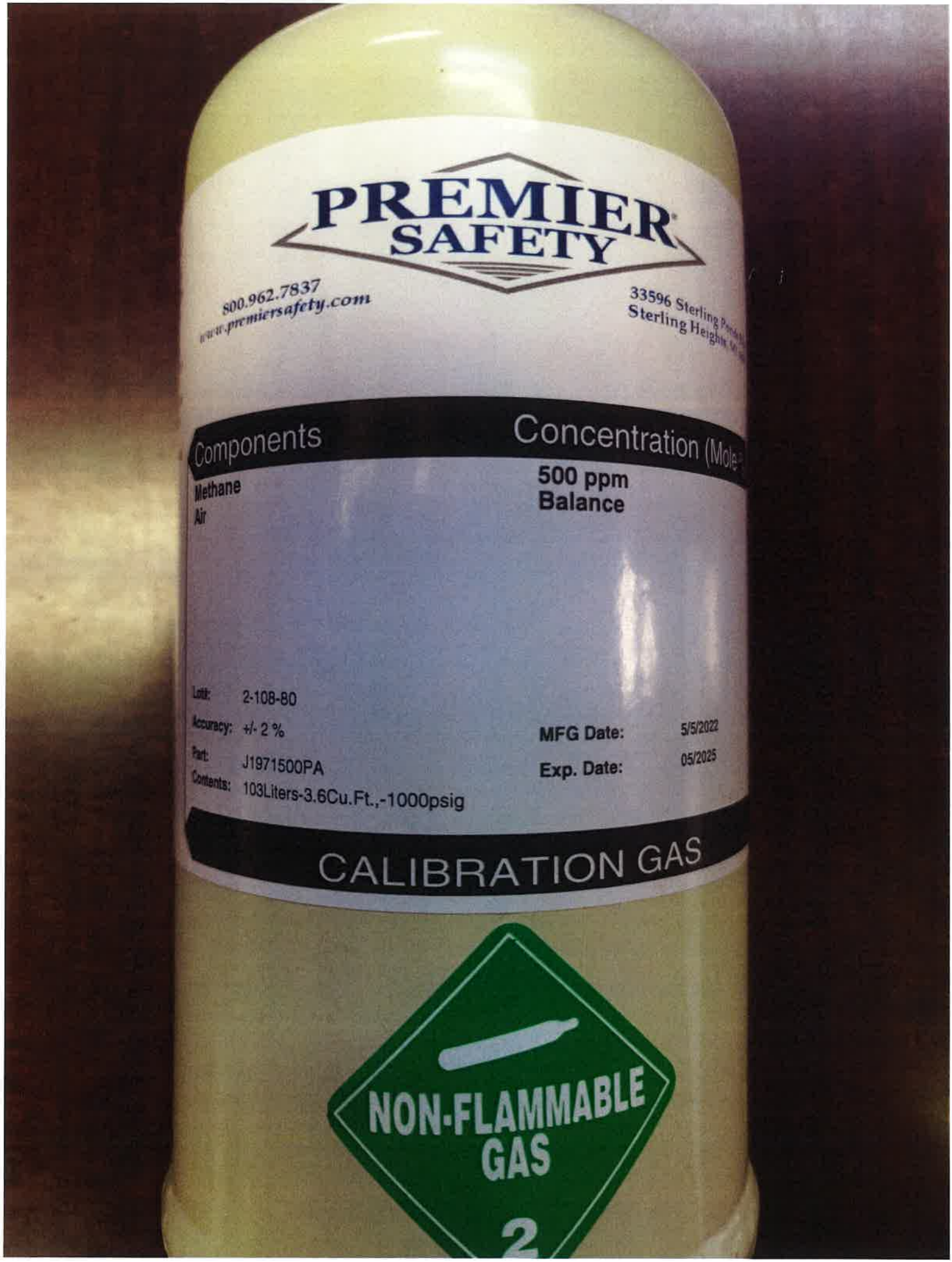
The cylinders in this lot were transfilled from cylinders prepared gravimetrically and traceable to the NIST by the certified weights used to calibrate the scale. The transfilled cylinders were then analyzed against standards traceable to the NIST by weights or SRMs.

NIST Traceable Numbers are available upon request.

Approved: _____ Date Signed: 6/10/2022

David Reed
Lab Technician

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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www.premiersafety.com
33596 Sterling
Sterling Heights
Components
Concentration (Mole
Methane
Air
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
NON-FLAMMABLE
GAS
2

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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

Customer Part# N/A

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

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

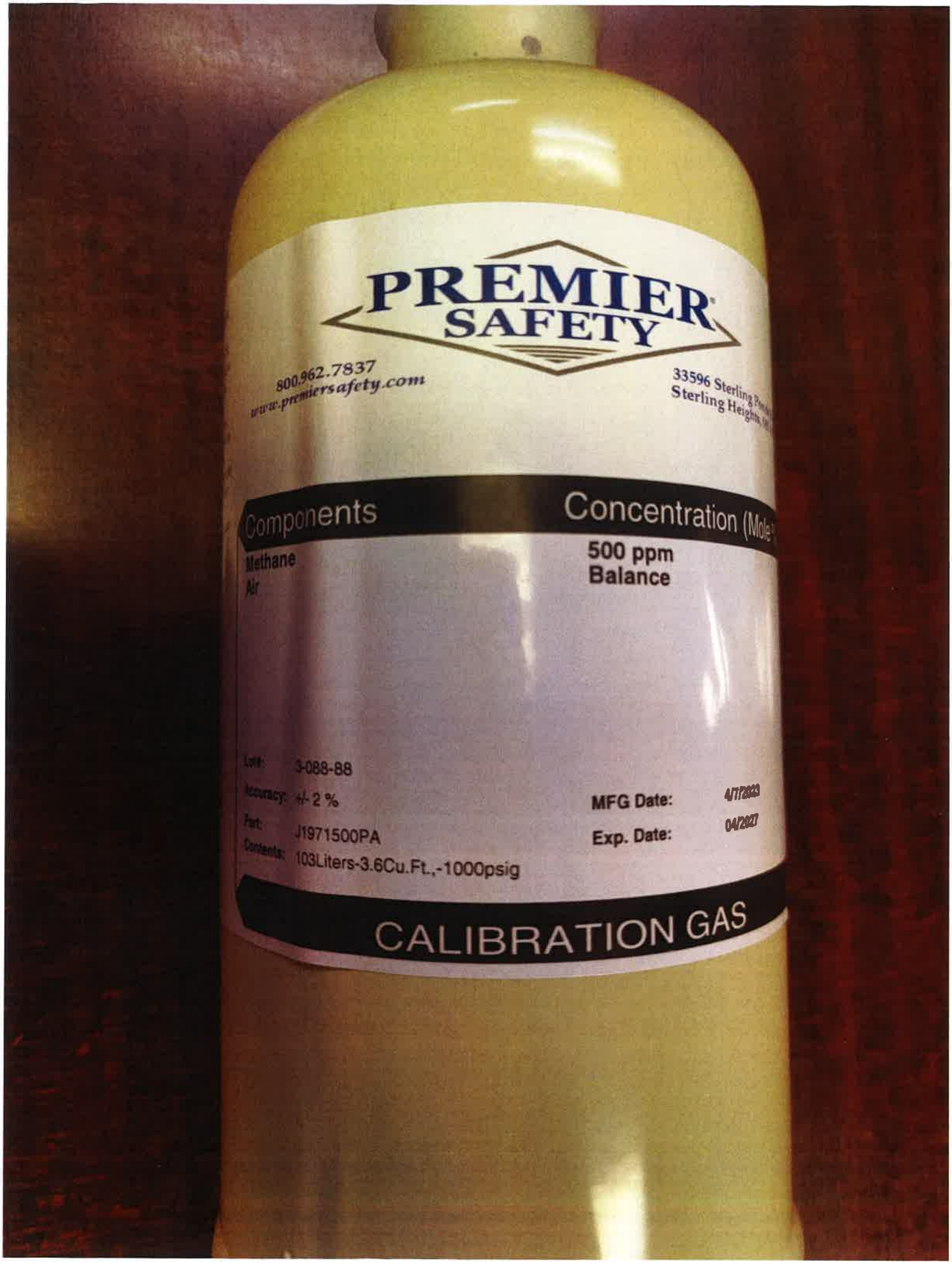
Storage: Keep away from heat, flames, and sparks. Store and use with adequate ventilation. Close valve when not in use and when empty. Never allow cylinder temperature to exceed 125 degrees F.

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: _____ Date Signed: 4/7/2023
Jeff Korn
Lab Technician

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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SAFETY
800.962.7837
www.premiersafety.com
33596 Sterling
Sterling Heights
Components
Concentration (Mole
Methane
Air
500 ppm
Balance
Lot#: 3-088-88
Accuracy: +/- 2 %
Part: J1971500PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig
MFG Date: 4/17/2023
Exp. Date: 04/2027
CALIBRATION GAS

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

January 10, 2024

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Fourth Quarter 2023 Surface Emissions and Component Leak Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the "**Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill"** contains the results of the **Fourth Quarter 2023 Integrated and Instantaneous** Surface Emissions Monitoring (SEM) and Component Leak Monitoring. Initial surface emissions monitoring was performed by RES Environmental, Inc. (RES). Re-monitoring of surface emissions was conducted by KCRDF 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 Monitoring

- Bay Area Air Quality Management District (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 Assembly Bill 32 (AB32) landfill methane rule (LMR).

KCRDF 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 KCRDF disposal area has been divided into one-hundred-and-fifty (150), approximately 50,000 square foot monitoring grids. 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 25-foot interval walking pattern as depicted the 2011 KCRDF 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.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was 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 FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous 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 3 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

RES 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.

FOURTH QUARTER 2023 SEM AND COMPONENT LEAK RESULTS

The following is a summary of the SEM and component leak monitoring results completed for the Fourth Quarter 2023.

Instantaneous Surface Emissions Monitoring Results

The Instantaneous surface monitoring was performed on November 14, 2023, 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 7 exceedances of 500 ppm_v as methane detected on November 14, 2023. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on November 17, 2023).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on November 20, 2023. All locations were observed at less than 500 ppm_v.

One-Month Re-Monitoring Results

The 1-month re-monitoring event was completed on December 11, 2023. 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 on November 14, 2023. 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 November 15, 2023, in 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 the initial monitoring event on November 15, 2023.

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 November 14, 2023. 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 chart data is scanned and included in Attachment D.

Precipitation Requirements

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

EQUIPMENT CALIBRATION

The portable analyzers were calibrated to meet the instrument specifications requirements of U.S. EPA Method 21. The calibration gas used was methane, diluted to a nominal concentration of 25

ppm_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
- SEM Map

Attachment B – Integrated Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances
- 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

2023 QUARTER 4

PERFORMED B RES/WM

LANDFILL NAM Kirby Canyon Recycling & Disposal Facility

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O1	73	11/14/2023	580	Well 127
O11	148	11/14/2023	1,500	Well 62
O2	68	11/14/2023	683	Well 147
O3	99	11/14/2023	960	Surface
O4	98	11/14/2023	580	Well-PW3
O5	107	11/14/2023	516	Surface
O6	107	11/14/2023	699	Surface

Table A.2
Instantaneous Landfill Surface Emissions Monitoring
Exceedance and Monitoring Logs (NSPS/BAAQMD 8-34)

2023 QUARTER: 4

INITIAL MONITORING PERFORMED BY RES

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments-Well locations
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	
73	11/14/2023	580	11/17/2023	Soil added, compacted	11/20/2023	17		12/11/2023	33		Well 127
148	11/14/2023	1,500	11/17/2023	BEC's Adjusted, soil added	11/20/2023	12		12/11/2023	24		Well 62
68	11/14/2023	683	11/17/2023	BEC's Adjusted, soil added	11/20/2023	28		12/11/2023	14		Well 147
99	11/14/2023	960	11/17/2023	Soil added, compacted	11/20/2023	65		12/11/2023	54		Surface
98	11/14/2023	580	11/17/2023	Soil added, wrapped cap	11/20/2023	33		12/11/2023	18		Well-PW3
107	11/14/2023	516	11/17/2023	Soil added, compacted	11/20/2023	22		12/11/2023	31		Surface
107	11/14/2023	699	11/17/2023	Soil added, compacted	11/20/2023	16		12/11/2023	27		Surface

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

2023 QUARTER: 4

INITIAL MONITORING PERFORMED BY: RES/WM

FOLLOW-UP MONITORING PERFORMED BY: Tino Robles

LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Initial Monitoring Event			1st Re-mon Event - 10 Days			2nd Re-mon Event - 10 Days			Comments-Well locations
Exceedance Grid ID No.	Monitoring Date	Field Reading	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
73	11/14/2023	580	11/20/2023	17					Well 127
148	11/14/2023	1,500	11/20/2023	12					Well 62
68	11/14/2023	683	11/20/2023	28					Well 147
99	11/14/2023	960	11/20/2023	65					Surface
98	11/14/2023	580	11/20/2023	33					Well-PW3
107	11/14/2023	516	11/20/2023	22					Surface
107	11/14/2023	699	11/20/2023	16					Surface

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

2023 QUARTER: 4
INITIAL MONITORING PERFORMED BY: RES/WM
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon 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)

2023 QUARTER: 4
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: Tino Robles
LANDFILL NAME: Kirby Canyon Landfill

Wind Direction:
Wind Speed:

Wind Direction: NW
Wind Speed: 3

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag/Grid Number	Monitoring Date	Field Reading	Repair Date	Repair Action Taken	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
1	11/14/2023	580	11/17/2023	Soil added, compacted	11/20/2023	17		12/11/2023	33		
2	11/14/2023	1,500	11/17/2023	BEC's Adjusted, soil added	11/20/2023	12		12/11/2023	24		
3	11/14/2023	683	11/17/2023	BEC's Adjusted, soil added	11/20/2023	28		12/11/2023	14		
4	11/14/2023	960	11/17/2023	Soil added, compacted	11/20/2023	65		12/11/2023	54		
5	11/14/2023	580	11/17/2023	Soil added, wrapped cap	11/20/2023	33		12/11/2023	18		
6	11/14/2023	516	11/17/2023	Soil added, compacted	11/20/2023	22		12/11/2023	31		
7	11/14/2023	699	11/17/2023	Soil added, compacted	11/20/2023	16		12/11/2023	27		

Orange Flag Landfill Surface Emissions Monitoring
Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year:	4th 2023
Technician:	LEISHMAN
Instrument:	TVA 1000
Calibration Standard:	500ppm

Initial Monitoring Event				First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			Comments
Flag Number	Grid Number	Field Reading (ppm)	Date Monitored	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	Date Monitored	No Excd. <500 ppm	Excd. >500 ppm	
~~0~~ 11	148	1500	11-14-23										WELL 62
~~0~~ 1	73	500	↓										WELL 127
~~0~~ 2	68	683											WELL 147
~~0~~ 3	99	960											SURFACE
~~0~~ 4	98	580											WELL PW-3
~~0~~ 5	107	516											SURFACE
~~0~~ 6	107	699											SURFACE
0-													
0-													
0-													
0-													
0-													
0-													
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KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHNAOE, JERRY MANOZ, JUVENI MEDINA, EDDIE DELING, GREGORY LOPEZ

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

Date: 11-14-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	1100	1115	113	3	4	9	
37	JM	1100	1115	94	3	4	9	
38	JM	1100	1115	125	3	4	9	
41	EO	1100	1115	60	3	4	9	
42	GC	1100	1115	92	3	4	9	
43	LW	1115	1130	108	2	3	9	
44	JM	1115	1130	56	2	3	9	
47	JM	1115	1130	39	2	3	9	
48	EO	1115	1130	75	2	3	9	
49	GC	1115	1130	88	2	3	9	
52	LW	1130	1145	41	4	5	10	
53	JM	1130	1145	70	4	5	10	
54	JM	1130	1145	115	4	5	10	
55	EO	1130	1145	79	4	5	10	
57	GC	1130	1145	14	4	5	10	
58	LW	1145	1200	54	4	6	10	
59	JM	1145	1200	89	4	6	10	
60	JM	1145	1200	64	4	6	10	
61	EO	1145	1200	57	4	6	10	
64	GC	1145	1200	19	4	6	10	
65	LW	1200	1215	41	3	5	6	
66	JM	1200	1215	70	3	5	6	
67	JM	1200	1215	94	3	5	6	
68	EO	1200	1215	683	3	5	6	WELL 147
70	GC	1200	1215	21	3	5	6	
71	LW	1215	1230	45	3	5	9	
72	JM	1215	1230	72	3	5	9	
73	JM	1215	1230	500	3	5	9	WELL 127
74	EO	1215	1230	49	3	5	9	
75	GC	1215	1230	67	3	5	9	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHWADE, EDDIE DELING, JERRY MUNOZ, GREGORY LOPEZ, JOVANI MEDINA

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

Date: 11-14-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
76	LW	1230	1245	54	3	5	10	
77	JM	1230	1245	68	3	5	10	
79	JM	1230	1245	32	3	5	10	
80	ED	1230	1245	74	3	5	10	
81	GL	1230	1245	59	3	5	10	
82	LW	1245	1300	45	4	6	11	
83	JM	1245	1300	71	4	6	11	
84	JM	1245	1300	65	4	6	11	
85	ED	1245	1300	39	4	6	11	
86	GL	1245	1300	74	4	6	11	
87	LW	1300	1315	51	5	6	11	
88	JM	1300	1315	67	5	6	11	
89	JM	1300	1315	45	5	6	11	
90	ED	1300	1315	37	5	6	11	
91	GL	1300	1315	114	5	6	11	
92	LW	1315	1330	96	4	6	11	
93	JM	1315	1330	41	4	6	11	
94	JM	1315	1330	77	4	6	11	
95	ED	1315	1330	64	4	6	11	
96	GL	1315	1330	52	4	6	11	
97	LW	1330	1345	40	5	9	11	
98	JM	1330	1345	580	5	9	11	PW-3
99	JM	1330	1345	960	5	9	11	SURFACE
100	ED	1330	1345	74	5	9	11	
101	GL	1330	1345	84	5	9	11	
102	LW	1345	1400	60	5	6	12	
103	JM	1345	1400	59	5	6	12	
104	JM	1345	1400	28	5	6	12	
105	ED	1345	1400	45	5	6	12	
106	GL	1345	1400	113	5	6	12	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LOSHAWNDE, EDDIE DELINS, JERRY MENDEZ, GREGORY LOPEZ, JOVONI REDDING

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

Date: 11-14-23 Instrument Used: TVA 1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
107	LW	1400	1415	699	4	7	12	SURFACE
111	JM	1400	1415	31	4	7	12	
112	JM	1400	1415	27	4	7	12	
113	ED	1400	1415	84	4	7	12	
118	GL	1400	1415	45	4	7	12	
119	LW	1415	1430	27	2	6	12	
120	JM	1415	1430	31	2	6	12	
121	JM	1415	1430	74	2	6	12	
126	ED	1415	1430	50	2	6	12	
127	GL	1415	1430	34	2	6	12	
128	LW	1430	1445	27	4	8	12	
129	JM	1430	1445	48	4	8	12	
134	JM	1430	1445	21	4	8	12	
136	ED	1430	1445	52	4	8	12	
138	GL	1430	1445	29	4	8	12	
139	LW	1445	1500	34	4	7	12	
140	JM	1445	1500	18	4	7	12	
141	JM	1445	1500	27	4	7	12	
142	ED	1445	1500	35	4	7	12	
143	GL	1445	1500	61	4	7	12	
144	LW	1500	1515	22	5	7	12	
145	JM	1500	1515	35	5	7	12	
146	JM	1500	1515	18	5	7	12	
147	ED	1500	1515	27	5	7	12	
148	GL	1500	1515	1500	5	7	12	WELL 62
149	LW	1515	1530	34	5	7	12	
150	JM	1515	1530	25	5	7	12	

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leshwak

Cal. Gas Exp. Date: _____

Date: 11-14-23 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	
109								Active-trash
110								
116								
117								
124								
125								
132								
133								
135								
137								
1								No waste in place
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Leigh WADE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 11-14-23 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	
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
108								
114								
115								
122								

Attach Calibration Sheet

Attach site map showing grid ID

KIRBY LANDFILL
INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: CDS/WADE _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 11-14-23 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	
123								↓
130								
131								↓

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2023
Quarter: 4th

IME Date	IME Location ID	IME Concentration (ppm)
11-14-23	KCLC0108	36
	KCLC0109	18
	KCLC0110	41
	KCLC0111	29
	KCLC0112	54
	KCLC0139	77
	KCLC0140	38
	KCLC0141	24
	KCLC0142	31
	KCLC0143	75
	KCLC0145	67
	KCLC0147	683
	KCLC0149	40
	KCLC0151	29
	KCLC0152	51
	KCLC0153	40
	KCLC0154	22
	KCLC0155	35
	KCLC0156	28
	KCLC0157	30
	KCYN0014	26
	KCYN0027	45
	KCYN0048	38
	KCYN0051	106
	KCYN0054	92
	KCYN0056	31
	KCYN0057	106
	KCYN0058	52
	KCYN0062	1500
	KCYN0063	24
	KCYN0065	13
	KCYN0066	27
	KCYN0070	44
	KCYN0071	24
	KCYN0072	16
	KCYN0074	39
	KCYN0075	22
	KCYN0076	41
	KCYN0078	65
	KCYN0082	94

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

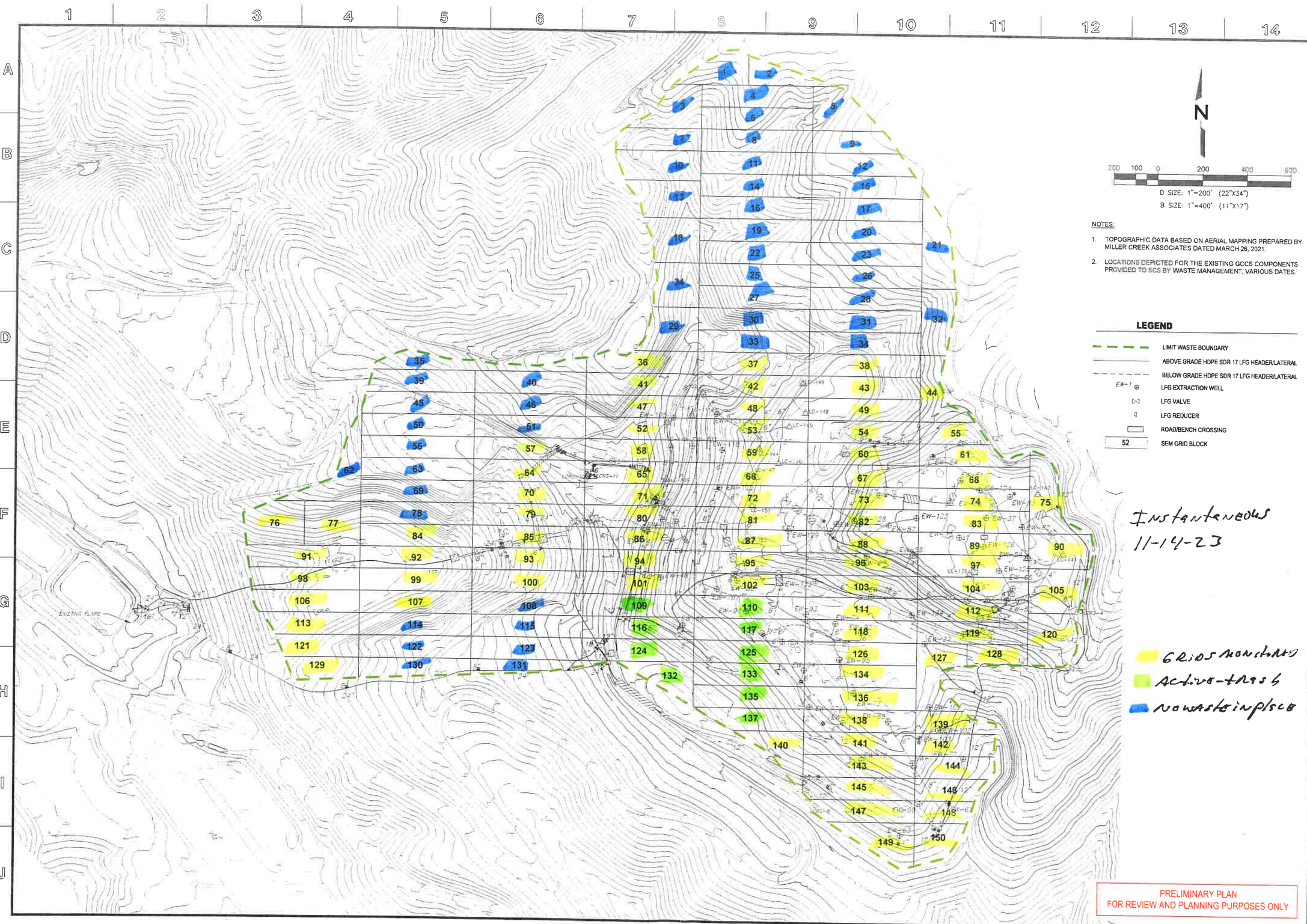
Year: 2023
Quarter: 4TH

IME Date	IME Location ID	IME Concentration (ppm)
11-14-23	KCYN0084	77
	KCYN0086	45
	KCYN0087	82
	KCYN0088	66
	KCYN0089	39
	KCYN0090	51
	KCYN0091	68
	KCYN0092	31
	KCYN0093	24
	KCYN0094	59
	KCYN0095	36
	KCYN0097	22
	KCYN0098	54
	KCYN0099	33
	KCYN0101	27
	KCYN0102	39
	KCYN0103	42
	KCYN0105	66
	KCYN0118	62
	KCYN0119	125
	KCYN0121	97
	KCYN0122	154
	KCYN0123	65
	KCYN0124	81
	KCYN0125	41
	KCYN0126	72
	KCYN0127	500
	KCYN0128	26
	KCYN0129	39
	KCYN0130	64
	KCYN0131	52
	KCYN0133	41
	KCYN0134	26
	KCYN0135	32
	KCYNLR04	18
	KCYNLR08	16
	KCYNLR11	11
	KCYN0162	59
	KCYN0163	78
	KCYN0164	113

KIRBY LANDFILL
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS

Year: 2023
Quarter: 4th

IME Date	IME Location ID	IME Concentration (ppm)
11-14-23	KCYN0165	45
	KCYN0166	66
	KCYN0167	51
	KCYN0168	37
	PW1	54
	PW2A	86
	PW3	580
	PW4A	108



REVISION | DATE | NO.

SHEET TITLE: SEM GRID AND PENETRATION MAP

PROJECT TITLE: SURFACE EMISSIONS MONITORING PLANS KIRBY CANYON RECYCLING AND DISPOSAL FACILITY MORGAN HILL, CALIFORNIA

CLIENT: WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY STE 100
LONG BEACH, CA 90806
(562) 426-9544

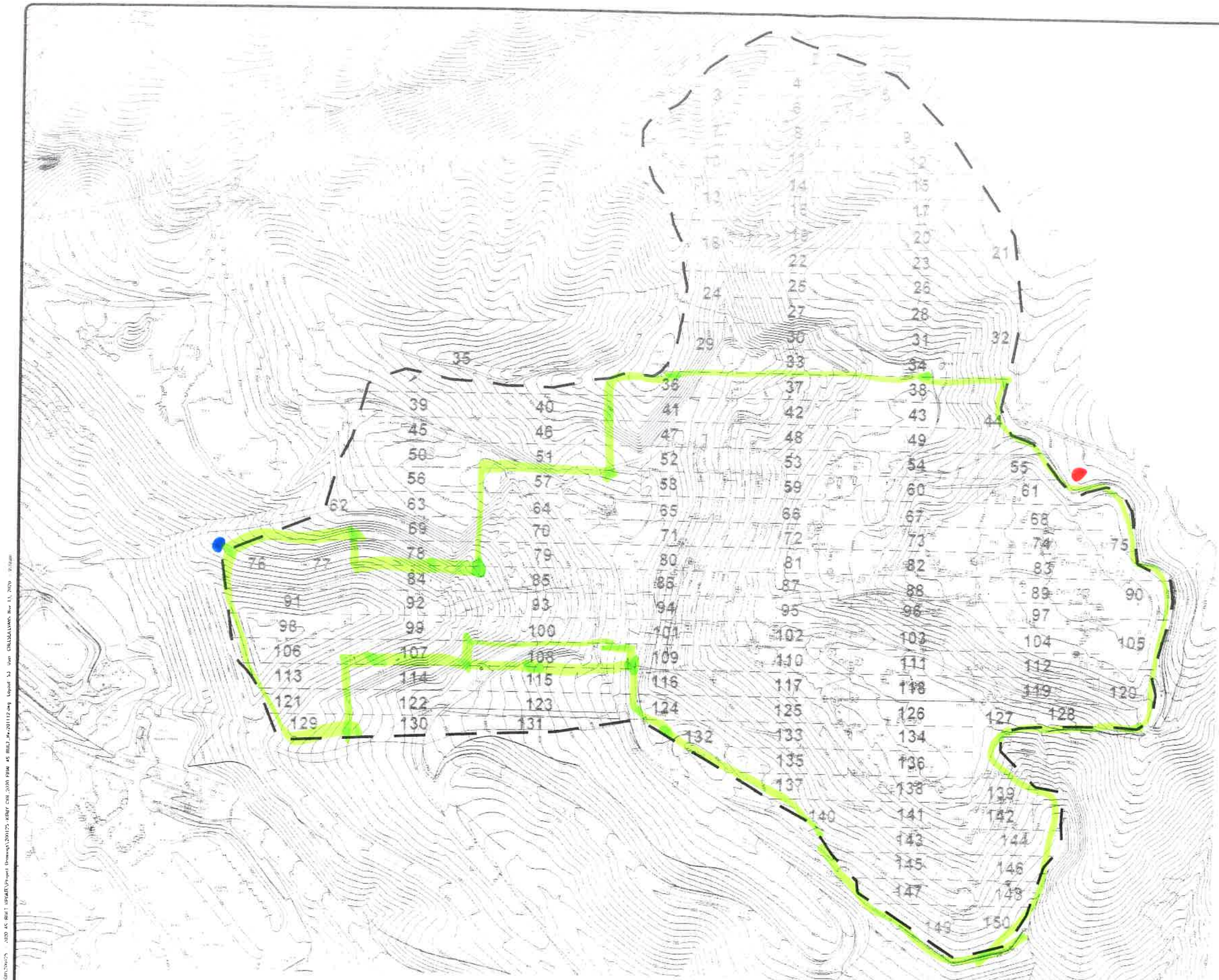
PROJ. NO: 01221102.00 | DWN BY: ATV/RR | ACAD FILE: N:\SALT LAKE | CHK BY: DF | APP BY:

DATE: 09-02-2021

SCALE: AS SHOWN

3

N:\Salt Lake City\Kirby Landfill\SEM Emissions Monitoring Plans\Kirby Surface Emissions Monitoring Plans.dwg Sep 02, 2021 - 1:47:22 PM by wdu



LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 SEM GRID BLOCK

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY APRIL 1, 2020.
2. SUPPLEMENTAL 2016 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JULY 19, 2017. WELL LOCATIONS PER RECORD DRAWINGS WELL SCHEDULE DATED: JULY 13, 2016.
3. 2017 GCCS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: OCTOBER 11, 2017
4. 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 19, 2019 AND DECEMBER 30, 2019
5. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM DATED: JANUARY 27 AND 30, 2020, AND BY SCS ENGINEERS DATED: FEBRUARY 4, 2020.
6. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.

4th Qtr 2023
NSPS

- PERIMETER SWEEP
- DOWNWIND
- UPWIND

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
DATE OF ISSUE	11/6/2020	DRAWN BY / DESIGNED BY	CVP / CME	CHECKED BY / APPROVED BY	NE / RDE	

TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO
3

PROJECT NO
200 25

Attachment B

Integrated Surface Emission Monitoring Event Records

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

2023 QUARTER: 4
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: N/A
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Initial Monitoring Event			**1st Re-mon Event - 10 Days**			
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	**Comments**
None						

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leis Lunor | Eddie Delira
Jerry Munoz | Gregory Lopez
Juvent Medina

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

Date: 11-15-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 41 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	0530	0555	12.11	1	2	10	
37	JM	0530	0555	18.45	1	2	10	
38	JM	0530	0555	10.36	1	2	10	
41	ED	0530	0555	9.17	1	2	10	
42	GL	0530	0555	14.58	1	2	10	
43	LW	0555	0620	12.72	2	3	10	
44	JM	0555	0620	9.15	2	3	10	
47	JM	0555	0620	9.11	2	3	10	
48	ED	0555	0620	14.88	2	3	10	
49	GL	0555	0620	20.64	2	3	10	
52	LW	0620	0645	8.07	3	4	10	
53	JM	0620	0645	13.71	3	4	10	
54	JM	0620	0645	11.24	3	4	10	
55	ED	0620	0645	7.60	3	4	10	
57	GL	0620	0645	4.21	3	4	10	
58	LW	0645	0710	6.19	3	4	10	
59	JM	0645	0710	9.30	3	4	10	
60	JM	0645	0710	13.28	3	4	10	
61	ED	0645	0710	7.11	3	4	10	
64	GL	0645	0710	5.54	3	4	10	
65	LW	0710	0735	7.21	2	3	11	
66	JM	0710	0735	9.60	2	3	11	
67	JM	0710	0735	16.52	2	3	11	
68	ED	0710	0735	9.30	2	3	11	
70	GL	0710	0735	6.14	2	3	11	
71	LW	0735	0800	8.31	3	4	10	
72	JM	0735	0800	14.77	3	4	10	
73	JM	0735	0800	16.92	3	4	10	
74	ED	0735	0800	7.45	3	4	10	
75	GL	0735	0800	6.26	3	4	10	

Attach Calibration Sheet
Attach site map showing grid ID

Page 1 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leishwaor / Eddie Delins / Jerry Munoz / Gregory Lopez / Juveli Medina

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

Date: 11-15-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 60 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
76	LW	0800	0825	9.45	3	4	10	
77	JM	0800	0825	11.20	3	4	10	
79	JM	0800	0825	6.92	3	4	10	
80	ED	0800	0825	10.35	3	4	10	
81	GL	0800	0825	16.71	3	4	10	
82	LW	0825	0850	7.30	2	3	10	
83	JM	0825	0850	6.55	2	3	10	
84	JM	0825	0850	11.45	2	3	10	
85	ED	0825	0850	9.16	2	3	10	
86	GL	0825	0850	11.46	2	3	10	
87	LW	0850	0915	7.50	3	4	11	
88	JM	0850	0915	6.47	3	4	11	
89	JM	0850	0915	6.13	3	4	11	
90	ED	0850	0915	6.57	3	4	11	
91	GL	0850	0915	10.98	3	4	11	
92	LW	0915	0940	17.47	4	5	12	
93	JM	0915	0940	7.90	4	5	12	
94	JM	0915	0940	11.67	4	5	12	
95	ED	0915	0940	9.75	4	5	12	
96	GL	0915	0940	7.38	4	5	12	
97	LW	0940	1005	6.52	3	3	11	
98	JM	0940	1005	18.35	3	3	11	
99	JM	0940	1005	20.74	3	3	11	
100	ED	0940	1005	7.16	3	3	11	
101	GL	0940	1005	8.45	3	3	11	
102	LW	1005	1030	9.70	5	5	12	
103	JM	1005	1030	9.13	5	5	12	
104	JM	1005	1030	7.12	5	5	12	
105	ED	1005	1030	7.18	5	5	12	
106	GL	1005	1030	13.71	5	5	12	

Attach Calibration Sheet
Attach site map showing grid ID

Page 2 of 3

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEIGH WADE, EDDIE DELRIO, JEREMY MUNOZ, GREGORY LOPEZ, JOVELI MEDINA

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

Date: 11-15-23 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 64 Precip: 0 Upwind BG: 2.4 Downwind BG: 3.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
101	LW	1030	1055	11.20	3	4	12	
111	JM	1030	1055	8.45	3	4	12	
112	JM	1030	1055	6.12	3	4	12	
113	ED	1030	1055	9.38	3	4	12	
118	GL	1030	1055	6.41	3	4	12	
119	LW	1055	1120	5.36	3	4	12	
120	JM	1055	1120	5.91	3	4	12	
121	JM	1055	1120	7.67	3	4	12	
126	ED	1055	1120	6.11	3	4	12	
127	GL	1055	1120	5.84	3	4	12	
128	LW	1120	1145	6.26	2	2	13	
129	JM	1120	1145	8.51	2	2	13	
134	JM	1120	1145	5.80	2	2	13	
136	ED	1120	1145	6.74	2	2	13	
138	GL	1120	1145	9.17	2	2	13	
139	LW	1145	1210	6.50	2	3	11	
140	JM	1145	1210	5.43	2	3	11	
141	JM	1145	1210	5.88	2	3	11	
142	ED	1145	1210	6.13	2	3	11	
143	GL	1145	1210	7.21	2	3	11	
144	LW	1210	1235	6.04	2	3	10	
145	JM	1210	1235	5.50	2	3	10	
146	JM	1210	1235	6.07	2	3	10	
140	ED	1210	1235	5.48	2	3	10	
148	GL	1210	1235	6.29	2	3	10	
145	LW	1235	1300	6.18	2	3	11	
150	JM	1235	1300	5.60	2	3	11	

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LOISHNAGE _____ _____ _____

_____ _____ _____

_____ _____ Cal Gas Exp Date: _____

Date: 11-15-23 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	
109								Active-Area 3
110								↓
116								
117								
124								
125								
132								
133								
135								
137								↓
1								Newest trip plan
2								↓
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								↓

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Leshnor _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

Date: 11-15-23 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	
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
69								
78								
108								
114								
115								
122								

Attach Calibration Sheet
Attach site map showing grid ID

KIRBY LANDFILL
INTEGRATED LANDFILL SURFACE MONITORING

Personnel: _____ _____ _____

_____ _____ _____

_____ _____ Cal. Gas Exp. Date: _____

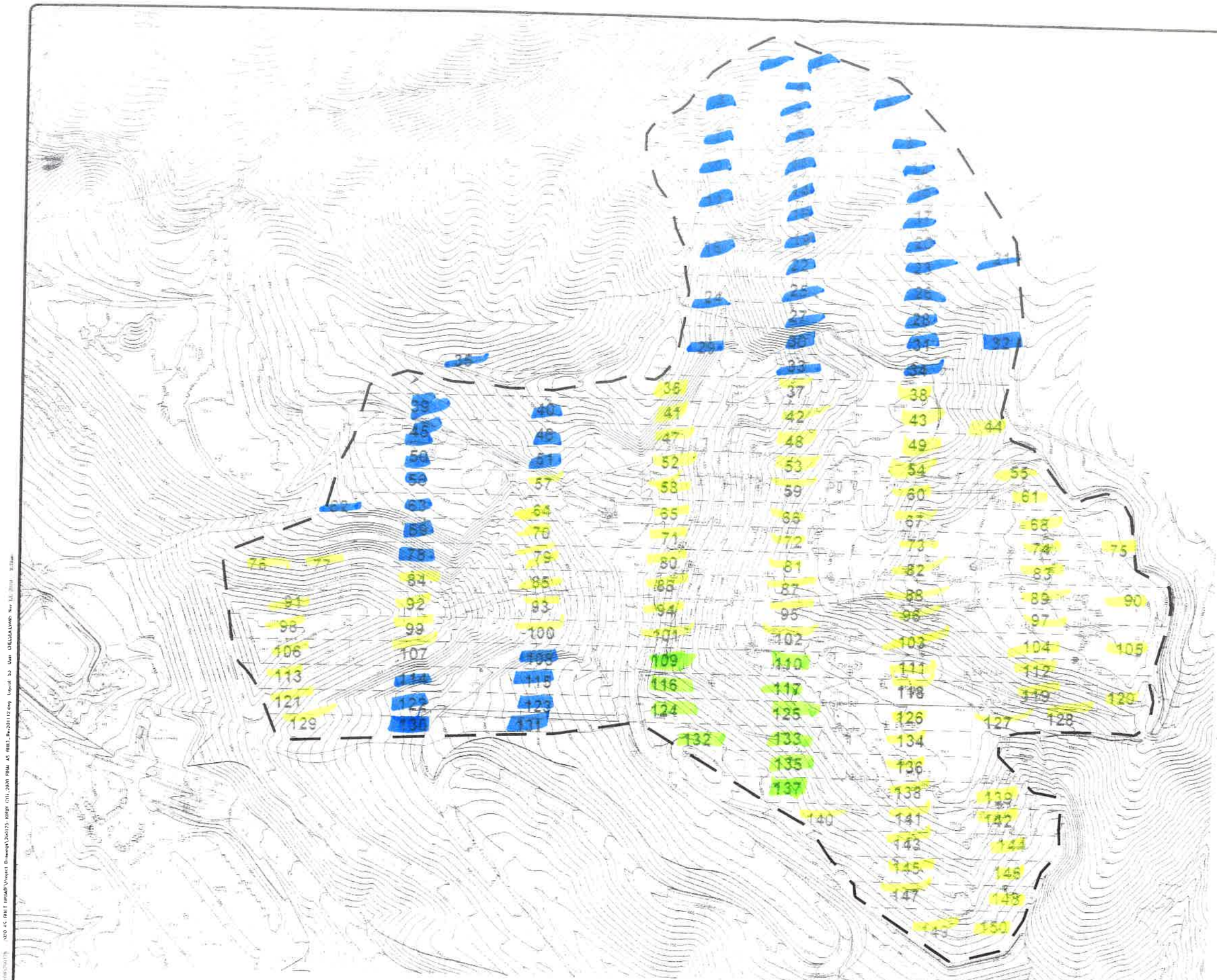
Date: _____ Instrument Used: _____ Grid Spacing: _____

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	
123								↓
130								
131								

Attach Calibration Sheet
Attach site map showing grid ID

Page 3 of 3



LEGEND

- EXISTING 10' CONTOUR
- EXISTING LFG EXTRACTION WELL
- EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- 105 SEM GRID BLOCK

N

0 200 400

SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
2. SUPPLEMENTAL 2016 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JULY 19, 2017. WELL LOCATIONS PER RECORD DRAWINGS WELL SCHEDULE DATED: JULY 13, 2016.
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4. 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 19, 2019 AND DECEMBER 30, 2019
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6. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.

Integrated 11-15-23

GRIDS Monitored
NO WASTE in place
Active-fresh

FINAL AS-BUILT

WASTE MANAGEMENT

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
	DATE OF ISSUE 12/2/2020	DRAWN BY CVF DESIGNED BY CVF	CHECKED BY KB APPROVED BY KB			

TETRA TECH

KIRBY CANYON RECYCLING AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2020 GCCS IMPROVEMENTS

SEM GRID MAP

SHEET NO
3
PROJECT NO

Attachment C

Component Leak Monitoring Event Records

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

2023 QUARTER: 4
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: **Kirby Canyon Recycling & Disposal Facility**

Location	Initial Monitoring			Corrective Action		10-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	11/14/23	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

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

2023 QUARTER: 4
INITIAL MONITORING PERFORMED BY: RES
FOLLOW-UP MONITORING PERFORMED BY: NA
LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	11/14/23	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

LANDFILL NAME: KIRBY
QUARTERLY LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Thermo Environr
MODEL: TVA 1000
S/N: 1036346773

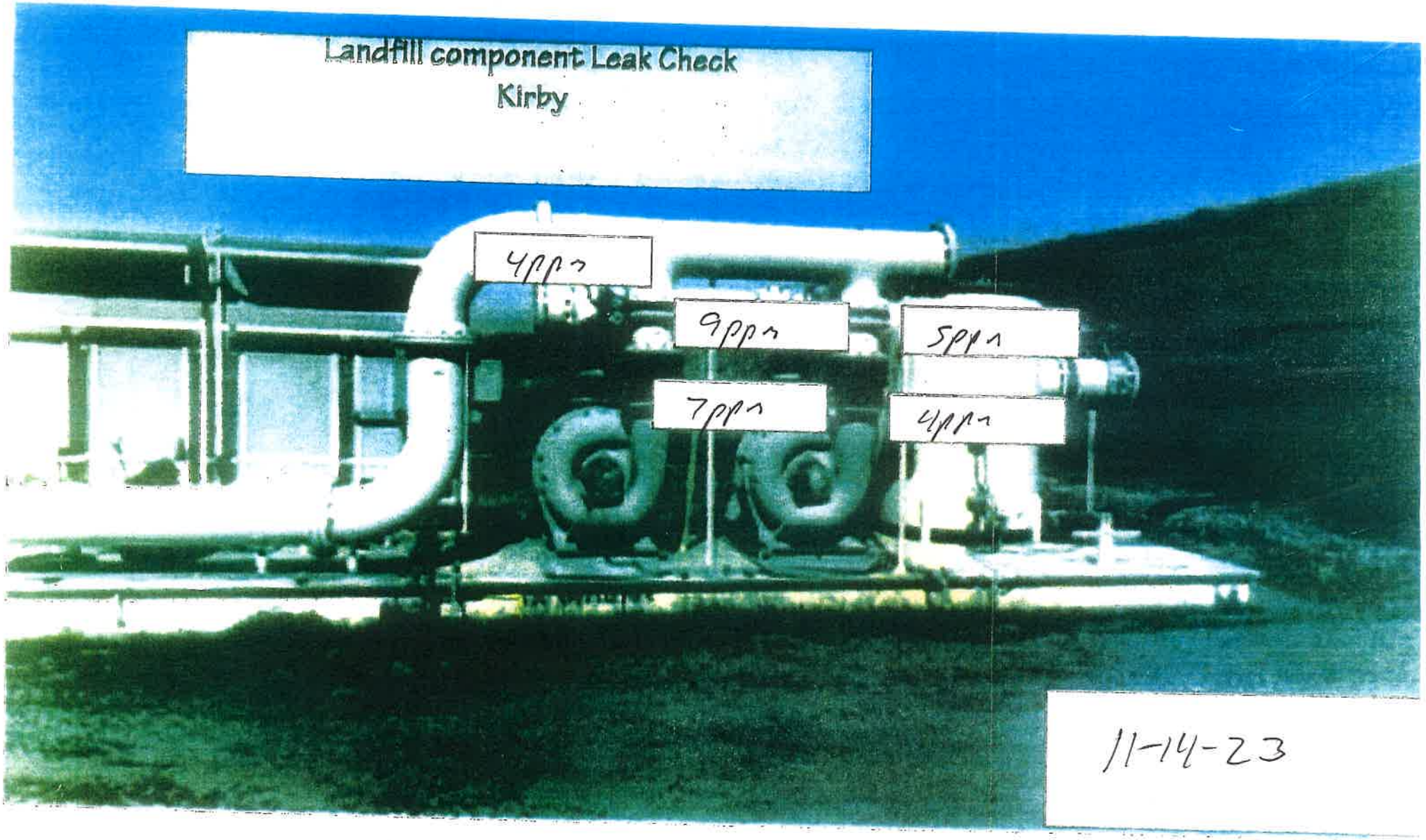
DATE OF SAMPLING: 11-14-23
TECHNICIAN: CHRISTOPHER

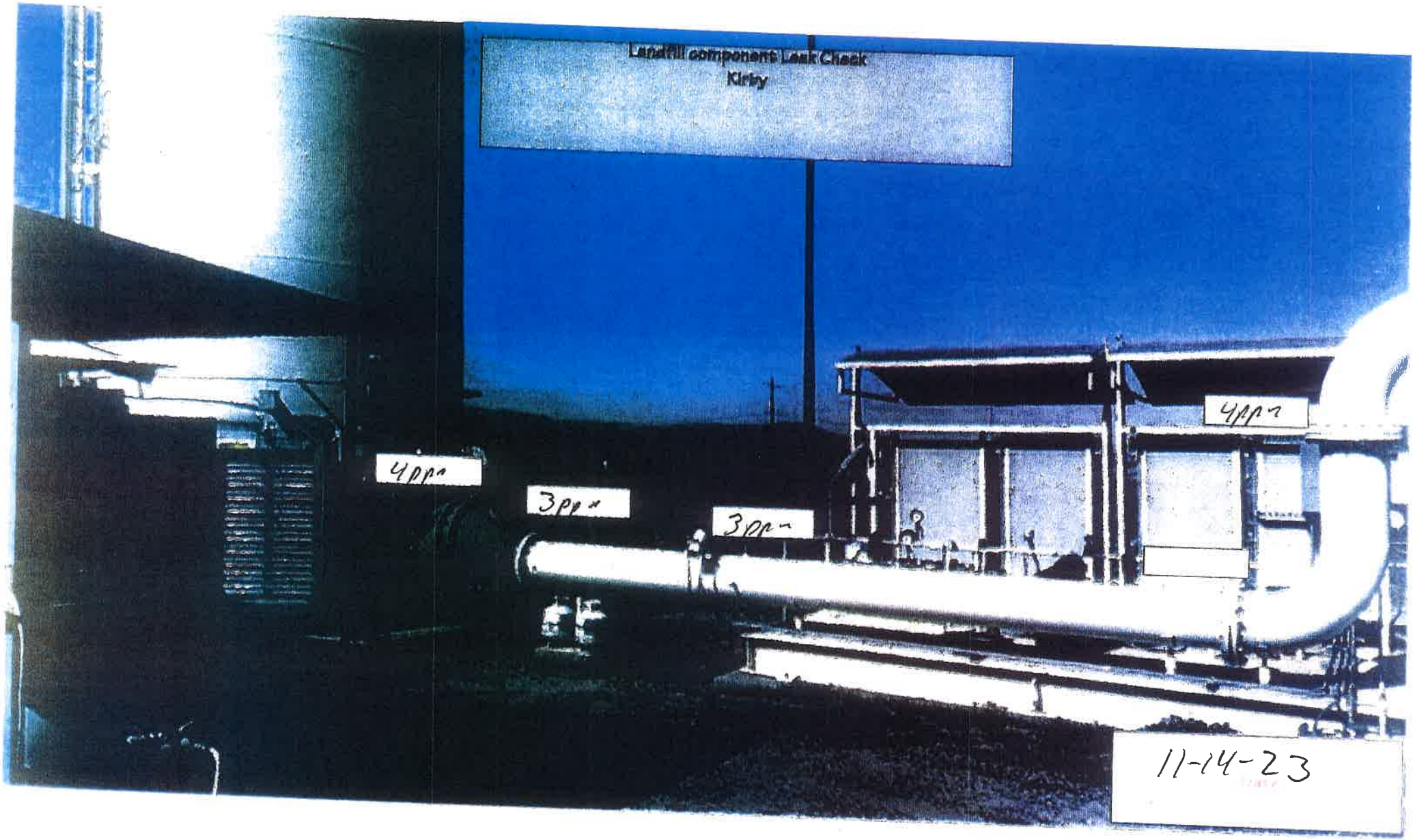
LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES							

In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.

NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).

NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.

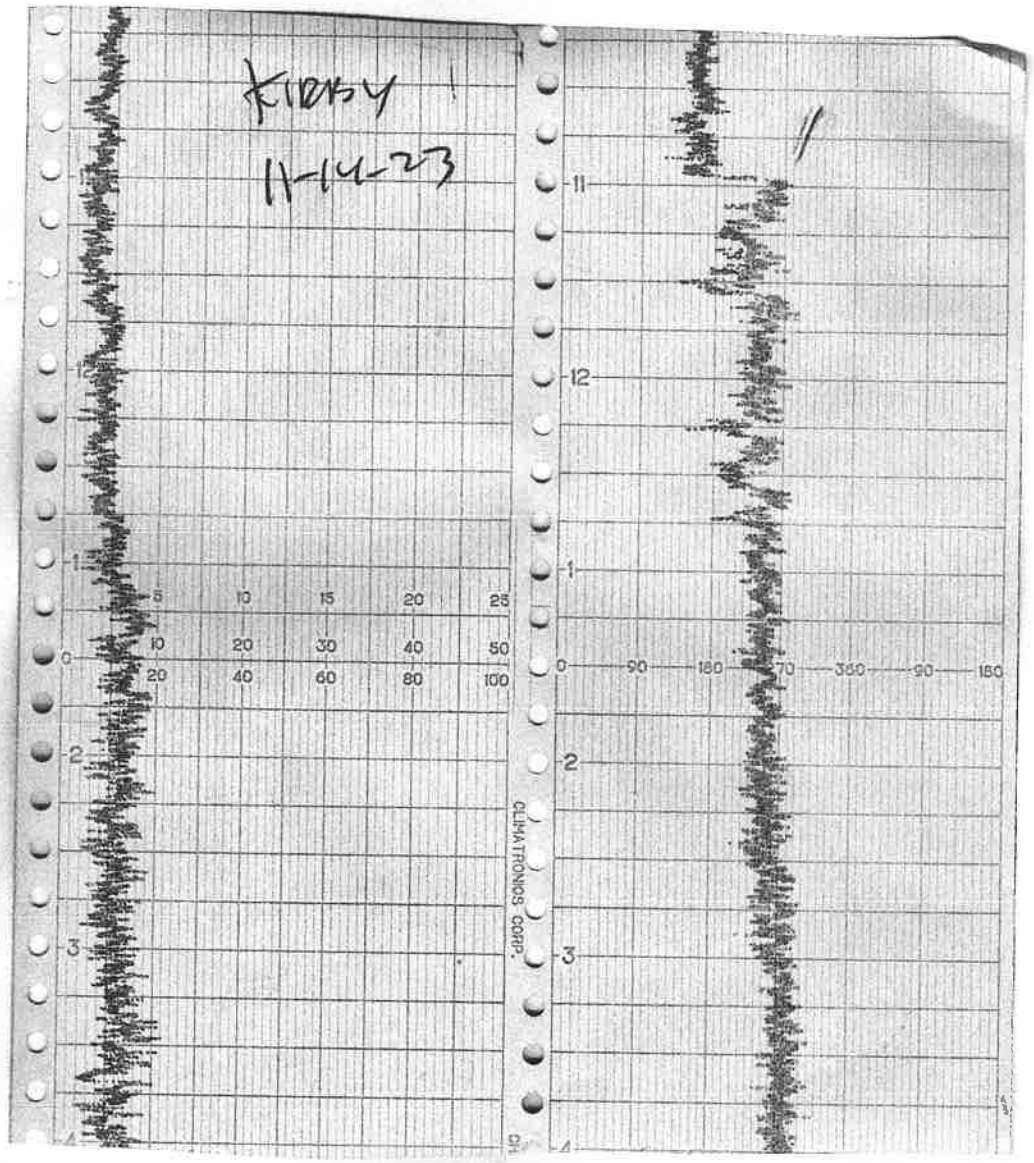

Landfill component Leak Check
Kirby
4ppm
9ppm
5ppm
7ppm
4ppm
11-14-23


Landfill components Leak Check
Kirby
4PPM
3PPM
3PPM
4PPM
11-14-23

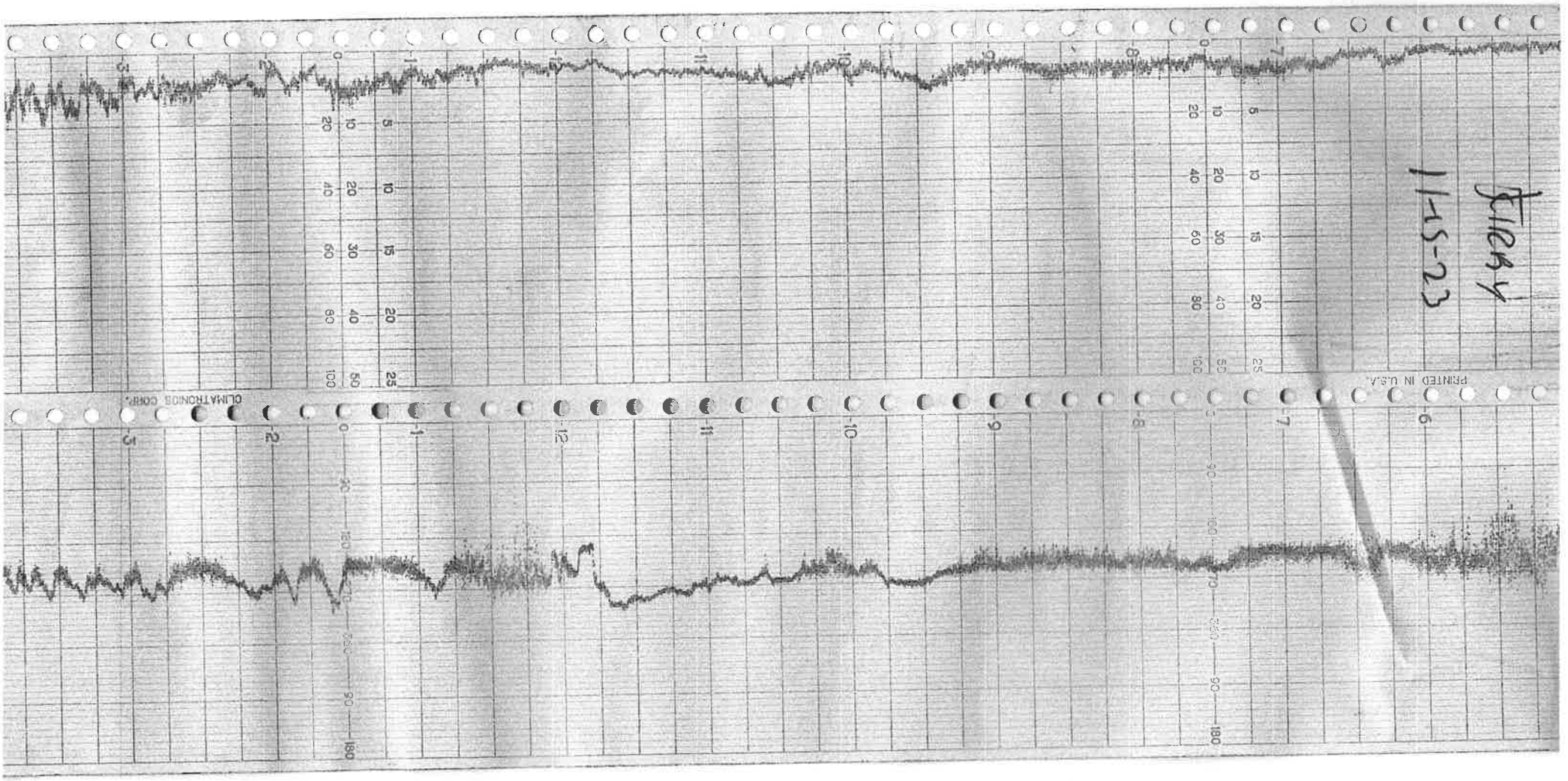
Attachment D

Weather Station Data

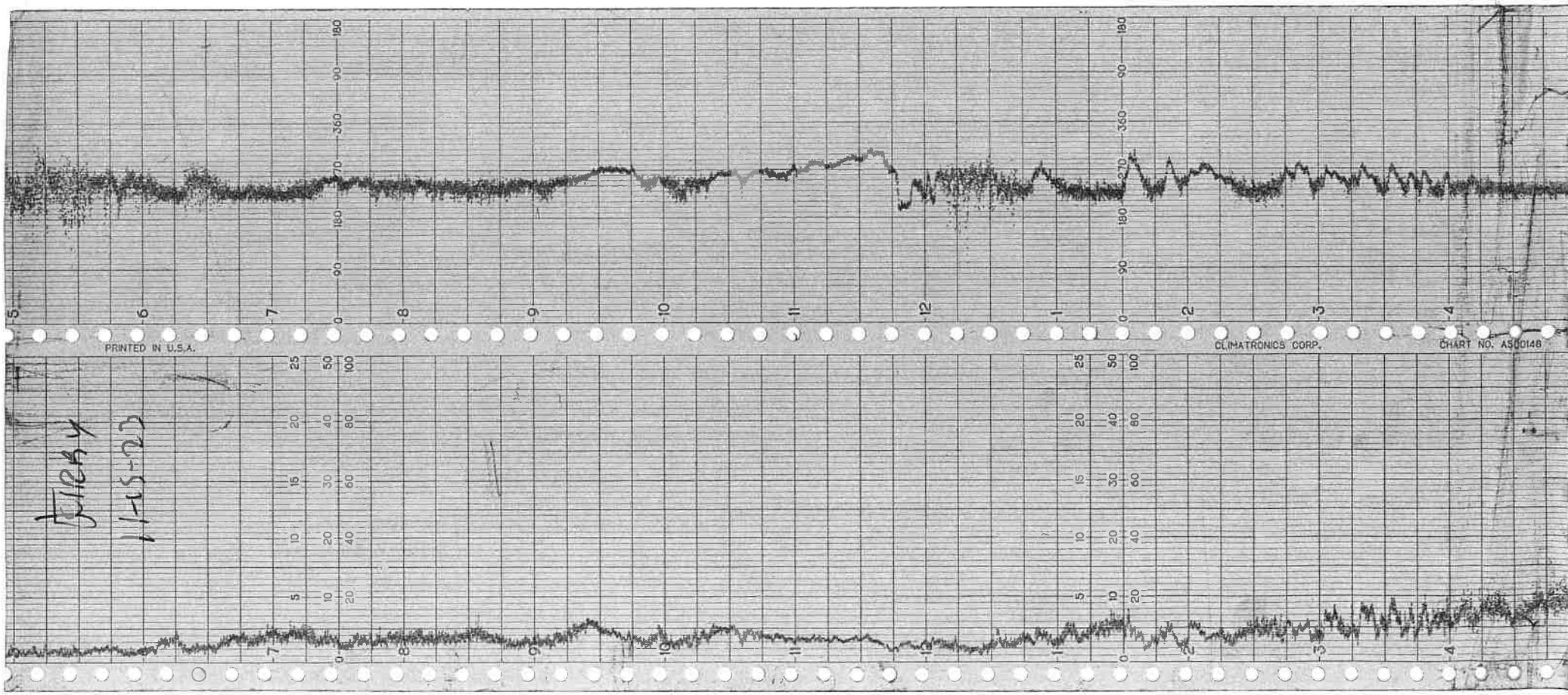
WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



WIND SPEED & DIRECTION CHART ROLL



RES Environmental Inc.

16-POINT WIND DIRECTION INDEX

NO	DIRECTION	DEGREES		
		FROM	CENTER	TO
16	NORTH (N)	348.8	360.0	011.3
1	NORTH-NORTHEAST (NNE)	011.3	022.5	033.8
2	NORTHEAST (NE)	033.8	045.0	056.3
3	EAST-NORTHEAST (ENE)	056.3	067.5	078.8
4	EAST (E)	078.8	090.0	101.3
5	EAST-SOUTHEAST (ESE)	101.3	112.5	123.8
6	SOUTHEAST (SE)	123.8	135.0	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	157.5	168.8
8	SOUTH (S)	168.8	180.0	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	202.5	213.8
10	SOUTHWEST (SW)	213.8	225.0	236.3
11	WEST-SOUTHWEST (WSW)	236.3	247.5	258.8
12	WEST (W)	258.8	270.0	281.3
13	WEST-NORTHWEST (WNW)	281.3	292.5	303.8
14	NORTHWEST (NW)	303.8	315.0	326.3
15	NORTH-NORTHWEST (NNW)	326.3	337.5	348.8

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

Attachment E

Calibration Records

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THermo

MODEL: TVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773

MONITORING DATE: 11-14-23 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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	489 ppm	435 ppm	6
#2	500 ppm	450 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6 #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	0.10 ppm	485 ppm	11
#2	0.08 ppm	500 ppm	0
#3	0.06 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.73 #DIV/0! Must be less than 10%

Performed By: LOISHWADE Date/Time: 11-14-23 1100

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA1000 EQUIPMENT #: 11 SERIAL #: 1036346772

MONITORING DATE: 11-14-23 TIME: 1055

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	503 ppm	453 ppm	4
#2	500 ppm	450 ppm	4
#3	500 ppm	450 ppm	4
Calculate Response Time (1+2+3) / 3			4 #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	0.11 ppm	503 ppm	3
#2	0.08 ppm	500 ppm	0
#3	0.08 ppm	500 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.20 #DIV/0! Must be less than 10%

Performed By: JERRY MEADOR Date/Time: 11-14-23 – 1055

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Kirby INSTRUMENT MAKE: Honda

MODEL: UA1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 11-14-23 TIME: 1055

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	490 ppm	440 ppm	5
#2	501 ppm	451 ppm	5
#3	500 ppm	450 ppm	5
Calculate Response Time (1+2+3) / 3			5 #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	0.13 ppm	490 ppm	10
#2	0.07 ppm	501 ppm	1
#3	0.05 ppm	500 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1			0.73 #DIV/0! Must be less than 10%

Performed By: Jovani Medina Date/Time: 11-14-23 1055

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Kirby INSTRUMENT MAKE: Honda

MODEL: HVA1000 EQUIPMENT #: 13 SERIAL #: 110274675

MONITORING DATE: 11-14-23 TIME: 1055

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	507 ppm	457 ppm	6
#2	501 ppm	451 ppm	6
#3	500 ppm	450 ppm	6
Calculate Response Time (1+2+3) / 3			6 #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	0.14 ppm	507 ppm	7
#2	0.06 ppm	501 ppm	1
#3	0.04 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.53 #DIV/0! Must be less than 10%

Performed By: Eddie Dulaney Date/Time: 11-14-23 - 1055

RES Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS

LANDFILL NAME: Kirby INSTRUMENT MAKE: Thermo

MODEL: TVA1000 EQUIPMENT #: 16 SERIAL #: 1102746776

MONITORING DATE: 11-14-23 TIME: 1055

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	491 ppm	441 ppm	7
#2	500 ppm	450 ppm	7
#3	510 ppm	450 ppm	7
Calculate Response Time (1+2+3) / 3			7 #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	0.05 ppm	491 ppm	9
#2	0.07 ppm	500 ppm	0
#3	0.04 ppm	500 ppm	0
Calculate Precision	[STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/500 X 100/1		0.60 #DIV/0! Must be less than 10%

Performed By: Gregory Lopez Date/Time: 11-14-23-1055

RES
Environmental In...

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: 10 SERIAL # 1036346773

MONITORING DATE: 11-15-23 TIME 0525

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	24 ppm	21.6 ppm	4
#2	25 ppm	22.5 ppm	4
#3	25 ppm	22.5 ppm	4
Calculate Response Time (1+2+3) / 3			4 #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	0.11 ppm	24 ppm	1
#2	0.07 ppm	25 ppm	0
#3	0.05 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1.3 #DIV/0! Must be less than 10%

Performed By CLASHNAOK Date/Time: 11-15-23- 0525

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: Honiro

MODEL: TVA1000 EQUIPMENT #: 11 SERIAL #: 16J6J46774

MONITORING DATE: 11-15-23 TIME: 0525

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 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	23 ppm	20.7 ppm	5
#2	25 ppm	22.5 ppm	5
#3	25 ppm	22.5 ppm	5
Calculate Response Time (1+2+3) / 3			5 #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	0.20 ppm	23 ppm	2
#2	0.16 ppm	25 ppm	0
#3	0.08 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			2.6 #DIV/0! Must be less than 10%

Performed By: JERRY MUNOZ Date/Time: 11-15-23 0525

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THERMO

MODEL: TVA 1000 EQUIPMENT #: 12 SERIAL #: 1036246741

MONITORING DATE: 11-15-23 TIME: 0525

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
2.4 ppm	3.2 ppm	3.2 ppm

Background Value = 3.2 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	24 ppm	21.6 ppm	6
#2	24 ppm	21.6 ppm	6
#3	25 ppm	22.5 ppm	6
Calculate Response Time (1+2+3) / 3			6 #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	0.09 ppm	24 ppm	1
#2	0.04 ppm	24 ppm	1
#3	0.04 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			2.6 #DIV/0! Must be less than 10%

Performed By: JOVANI MARINS Date/Time: 11-15-23-0525

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: Kirby INSTRUMENT MAKE: THermo

MODEL: TVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775

MONITORING DATE: 11-15-23 TIME: 0525

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 **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	23 ppm	20.7 ppm	5
#2	24 ppm	21.6 ppm	5
#3	25 ppm	22.5 ppm	5
Calculate Response Time (1+2+3) / 3			5 #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	0.15 ppm	23 ppm	2
#2	0.07 ppm	24 ppm	1
#3	0.05 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			4.0 #DIV/0! Must be less than 10%

Performed By: EDDIE DEERS Date/Time: 11-15-23 0525

RES
Environmental Inc.

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME Kirby INSTRUMENT MAKE THORN

MODEL TVA1000 EQUIPMENT # 16 SERIAL # 1102746776

MONITORING DATE 11-15-23 TIME 0525

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
2.4 ppm	3.2 ppm	2.8 ppm

Background Value = 2.8 **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	24 ppm	21.6 ppm	7
#2	25 ppm	22.5 ppm	7
#3	25 ppm	22.5 ppm	7
Calculate Response Time (1+2+3) / 3			7 #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	0.13 ppm	24 ppm	1
#2	0.09 ppm	25 ppm	0
#3	0.07 ppm	25 ppm	0
Calculate Precision [STD-B1] + [STD-B2] + [STD-B3] / 3 X 1/25 X 100/1			1.3 #DIV/0! Must be less than 10%

Performed By GREGORY LOPEZ Date/Time 11-15-23 0525

RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-3-23 Time: 0815

Model # TVA 1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.3 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-6-23	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. 6
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 6.0
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-3-23 Time: 0830

Model # TVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.4 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-6-23	Time required to attain 90% of Cal Gas ppm: 1. 5 / 2. 5 / 3. 5 / Average 5.0
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to Cbtg gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-3-23 Time: 0845

Model # TVA 1000

Serial # #12 1036246241

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.4 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 100%
Date of last factory calibration	10-6-23	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 5 2. 5 3. 5 Average 5.3 Equal to or less than 30 seconds? (Y) N Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT
CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-3-23 Time: 0900

Model # TVA 1000

Serial # #13 1102746775

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.1 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-6-23	Time required to attain 90% of Cal Gas ppm: 1. 6 / 2. 6 / 3. <
Factory calibration record w/instrument within 3 months	(Pass) / Fail	Average: 5.6
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to Methy gas.

Comments: _____

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RES Environmental Inc.

SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: _____

Purpose: _____

Operator: _____

Date: 11-3-23 Time: 0945

Model # TVA 1000

Serial # #16 11027 46 776

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION
Battery test	(Pass) / Fail	CALIBRATION CHECK
Reading following ignition	2.4 ppm	Calibration Gas (ppm): 500 / Actual (ppm): 500 / % Accuracy: 100%
Leak test	(Pass) / Fail / NA	RESPONSE TIME
Clean system check (check valve chatter)	(Pass) / Fail / NA	Calibration Gas, ppm: 500
H_2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail / NA	90% of Calibration Gas, ppm: 450
Date of last factory calibration	10-6-23	Time required to attain 90% of Cal Gas ppm
Factory calibration record w/instrument within 3 months	(Pass) / Fail	1. 5
		2. 5
		3. 6
		Average 5.3
		Equal to or less than 30 seconds? (Y) N
		Instrument calibrated to CH4 gas.

Comments: _____

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 10

SERIAL NUMBER: 1036346773

TECHNICIAN: [signature] DATE: 10-6-23

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	0.65	< 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: MES Cal # 11

SERIAL NUMBER: 1036346774

TECHNICIAN: MM DATE: 10-6-23

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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #12

SERIAL NUMBER: 1036246791

TECHNICIAN: JM DM DATE: 10-6-23

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	0.69	< 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Cart #13

SERIAL NUMBER: 1102746275

TECHNICIAN: [signature] DATE: 10-6-23

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	0.168	< 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.

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RES Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #16

SERIAL NUMBER: 1102746776

TECHNICIAN: [signature] DATE: 10-6-23

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	10,211	+/- 2500
< 1	ZERO GAS	0.71	< 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.

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www.isgases.com

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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


Service
INC
Concentration (Mole%) Accuracy
- 20.9% Oxygen
- Bal. Nitrogen
Exp Date
7/10/2024
Lot#: 20-7421
P/N:01-100
103 L
757-0353 or (800) 201-8150 Fax (949) 757-0363
103-01-100
103 L

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CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

Lot # 17-6074

Mfg. Date: 10/16/2017

Parent Cylinder ID Number: 17161

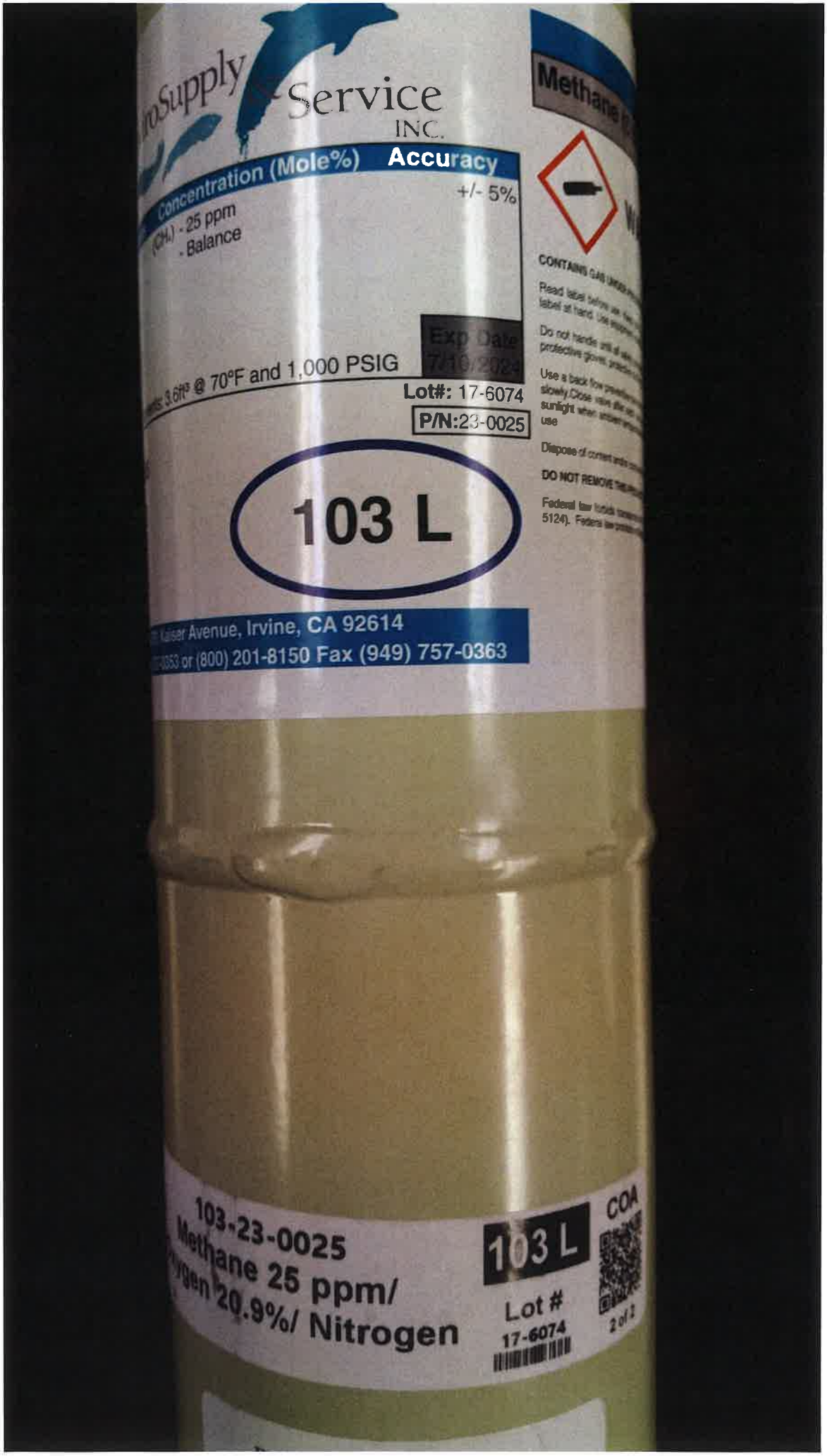
Method of Preparation:

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


ProSupply Service INC.
Concentration (Mole%) Accuracy
+/- 5%
(CH4) - 25 ppm
. Balance
Exp Date
7/10/2023
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
(800) 201-8150 Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
Nitrogen 20.9%/ Nitrogen
103 L
Lot #
17-6074
COA
2 of 2

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800-552-5003 • www.isgases.com

CERTIFICATE OF ANALYSIS

Composition	Certification	Analytical Accuracy
Methane	25 ppm	± 5%
Air	Balance	

Lot # 17-6074

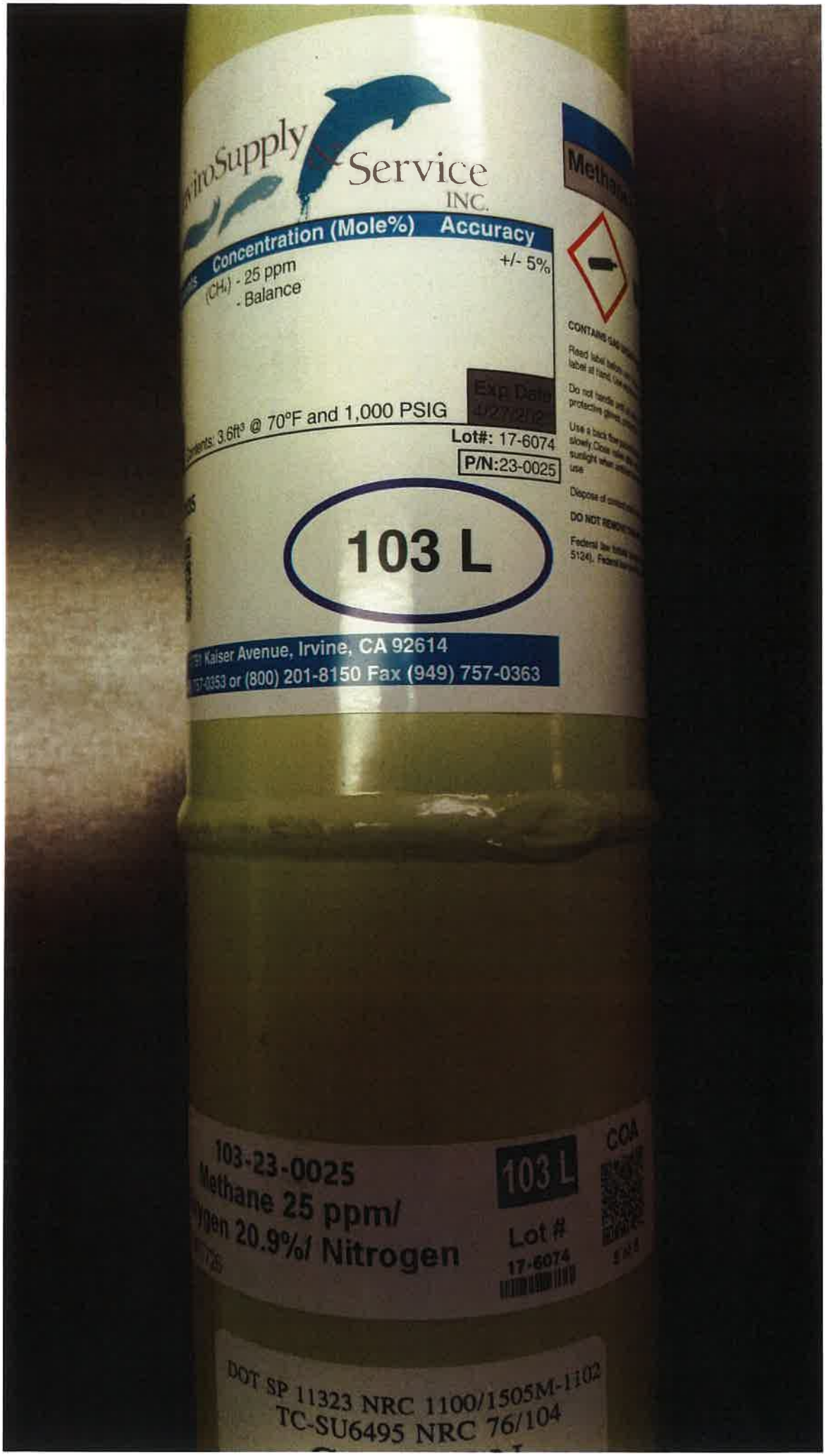
Mfg. Date: 10/16/2017

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


Service
INC.
Concentration (Mole%) Accuracy
(CH4) - 25 ppm
- Balance
+/- 5%
Exp Date
4/27/2012
Contents: 3.6ft³ @ 70°F and 1,000 PSIG
Lot#: 17-6074
P/N:23-0025
103 L
Kaiser Avenue, Irvine, CA 92614
757-0353 or (800) 201-8150 Fax (949) 757-0363
103-23-0025
Methane 25 ppm/
ygen 20.9%/ Nitrogen
103 L
Lot #
17-6074
CGA
DOT SP 11323 NRC 1100/1505M-1102
TC-SU6495 NRC 76/104

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Composition	Certification	Analytical Accuracy (+/-)
Methane	500 ppm	2%
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

Lot #	**20-7497**
Mfg. Date:	7/10/2020
Expiration Date:	
Transfill Date:	see cylinder
Parent Cylinder ID Number:	TWC001763

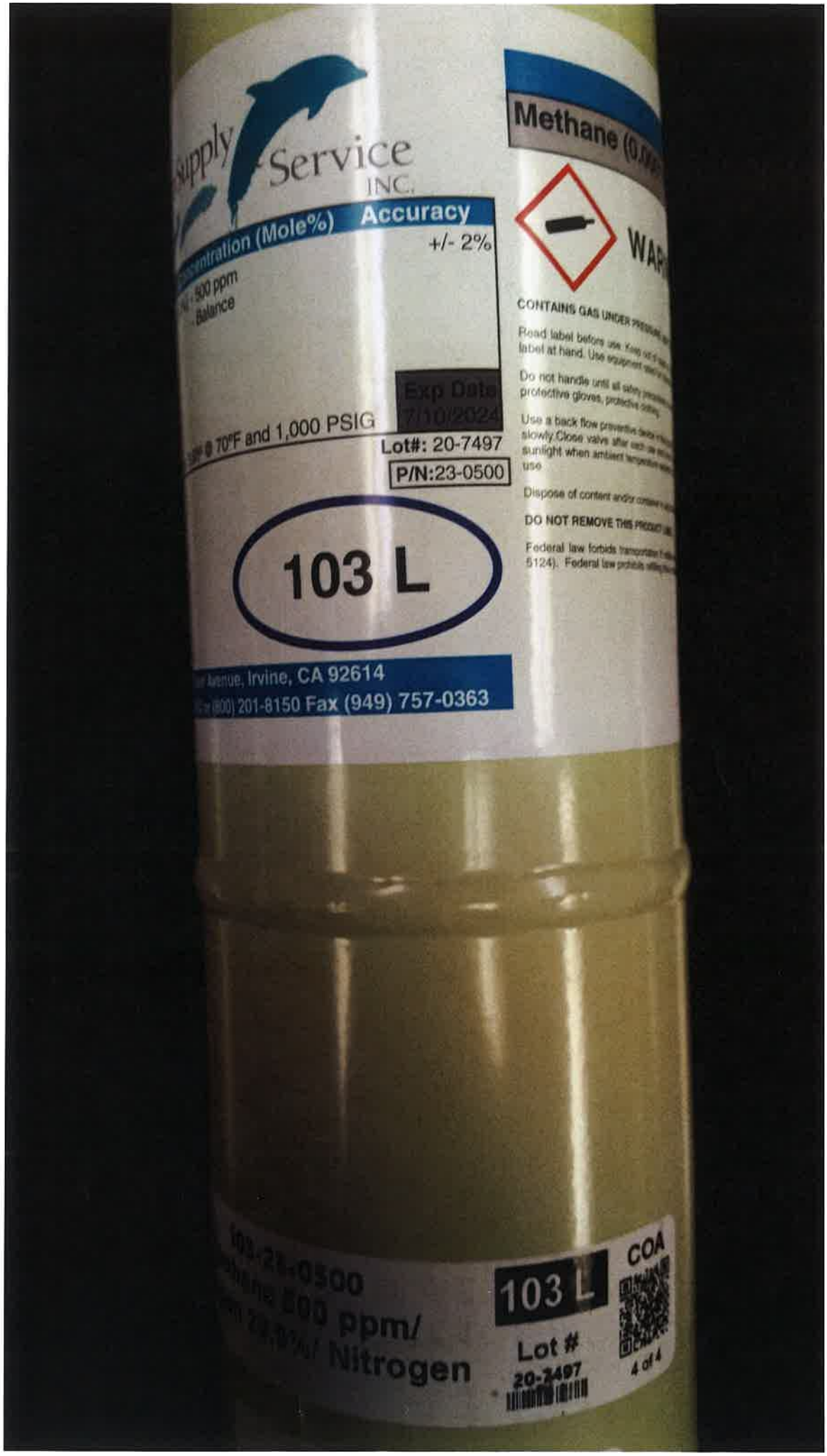
Method of Preparation:

Gravimetric/Pressure Transfilled

Method of Analysis:

The parent mix was prepared gravimetrically and is traceable to the NIST by certified weights (ID #CA10814) used to calibrate the scale.

Analysis By: Tony Janquart
Title: Quality Assurance Manager
Certificate Date: 7/10/2020


Supply Service
INC.
Methane (0.5
Concentration (Mole%)
Accuracy
+/- 2%
- 500 ppm
- Balance
WAR
CONTAINS GAS UNDER PRESSURE
Read label before use. Keep
label at hand. Use equipment
Do not handle until all safety
protective gloves, protective
Use a back flow preventive
slowly.Close valve after
sunlight when ambient
use.
Dispose of content and/or
DO NOT REMOVE THIS PRODUCT
Federal law forbids
5124). Federal law
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
103-23-0300
ppm/
Nitrogen
103 L
Lot #
20-7497
COA
4 of 4

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CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights 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

Customer Part# N/A

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

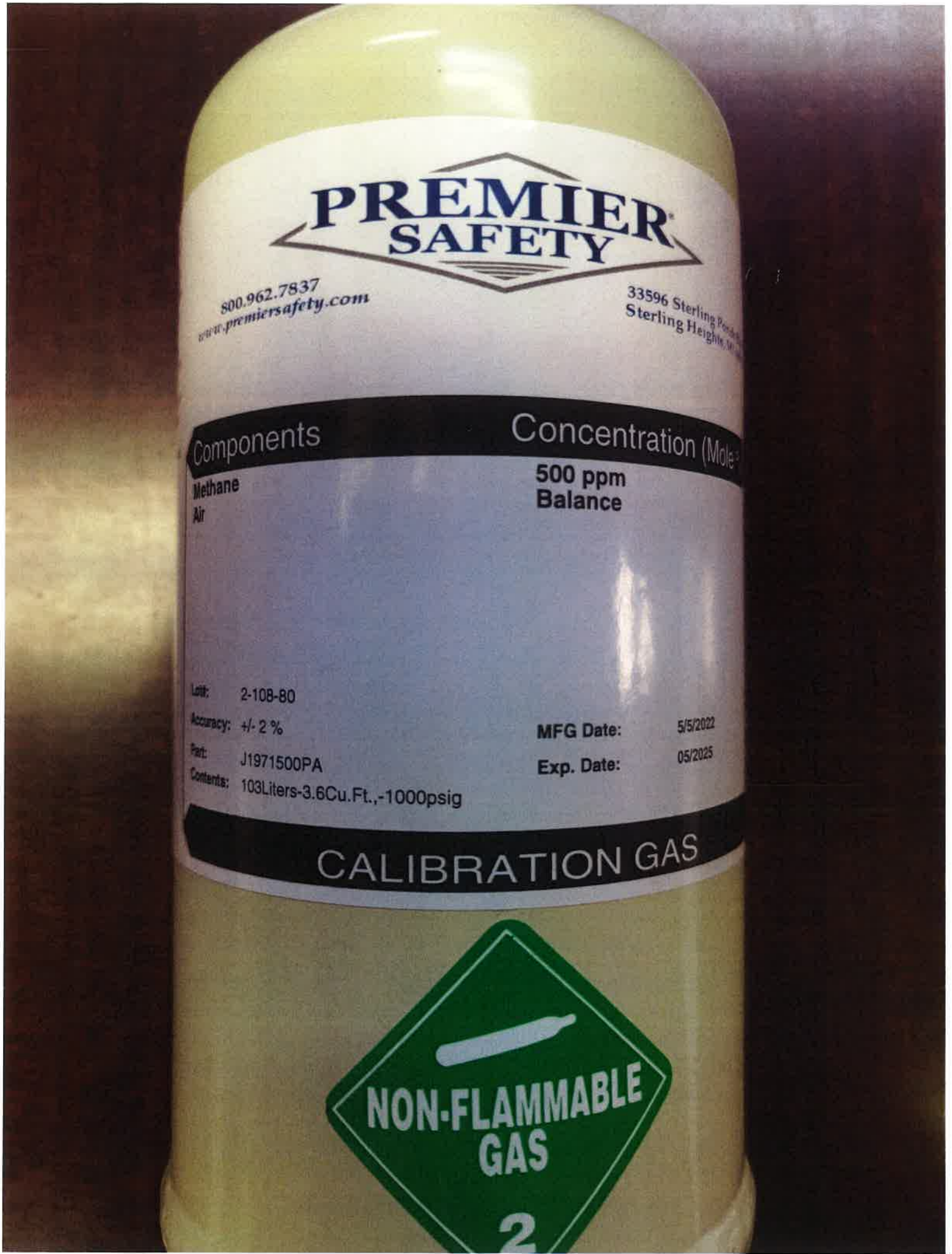
Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

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: _____ Date Signed: 6/10/2022
David Reed
Lab Technician

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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www.premiersafety.com
33596 Sterling Pon
Sterling Heights, M
Components
Concentration (Mole
Methane
Air
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
NON-FLAMMABLE
GAS
2

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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

Customer Part# N/A

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

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: _____ Date Signed: 4/7/2023
Jeff Korn
Lab Technician

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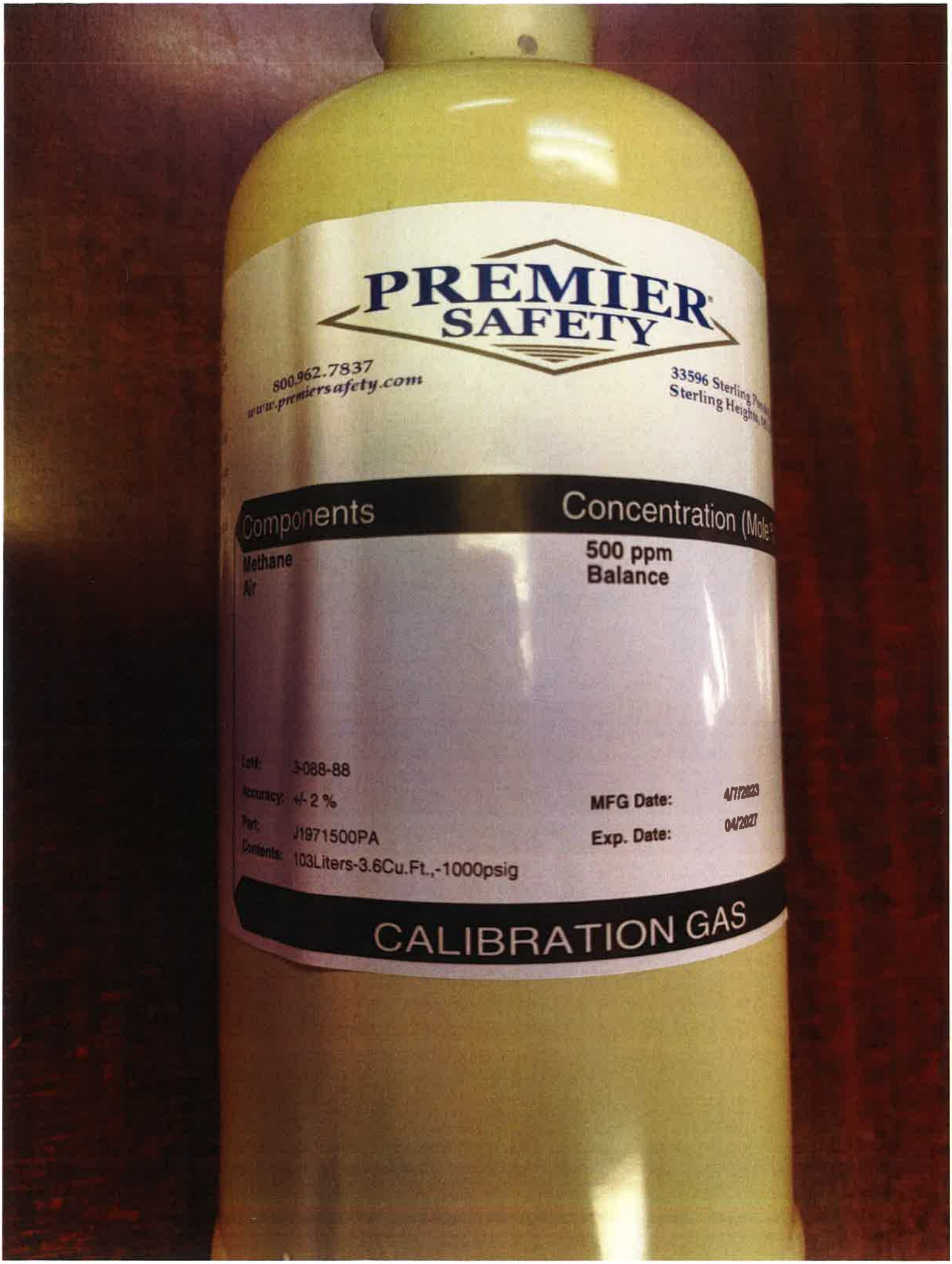
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Sterling Heights
Components
Concentration (Mole
Methane
Air
500 ppm
Balance
Lot#: 3-088-88
Accuracy: +/- 2 %
Part: J1971500PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig
MFG Date: 4/7/2023
Exp. Date: 04/2027
CALIBRATION GAS

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Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights 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

Customer Part# N/A

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

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: _____ Date Signed: 6/13/2022
David Reed
Lab Technician

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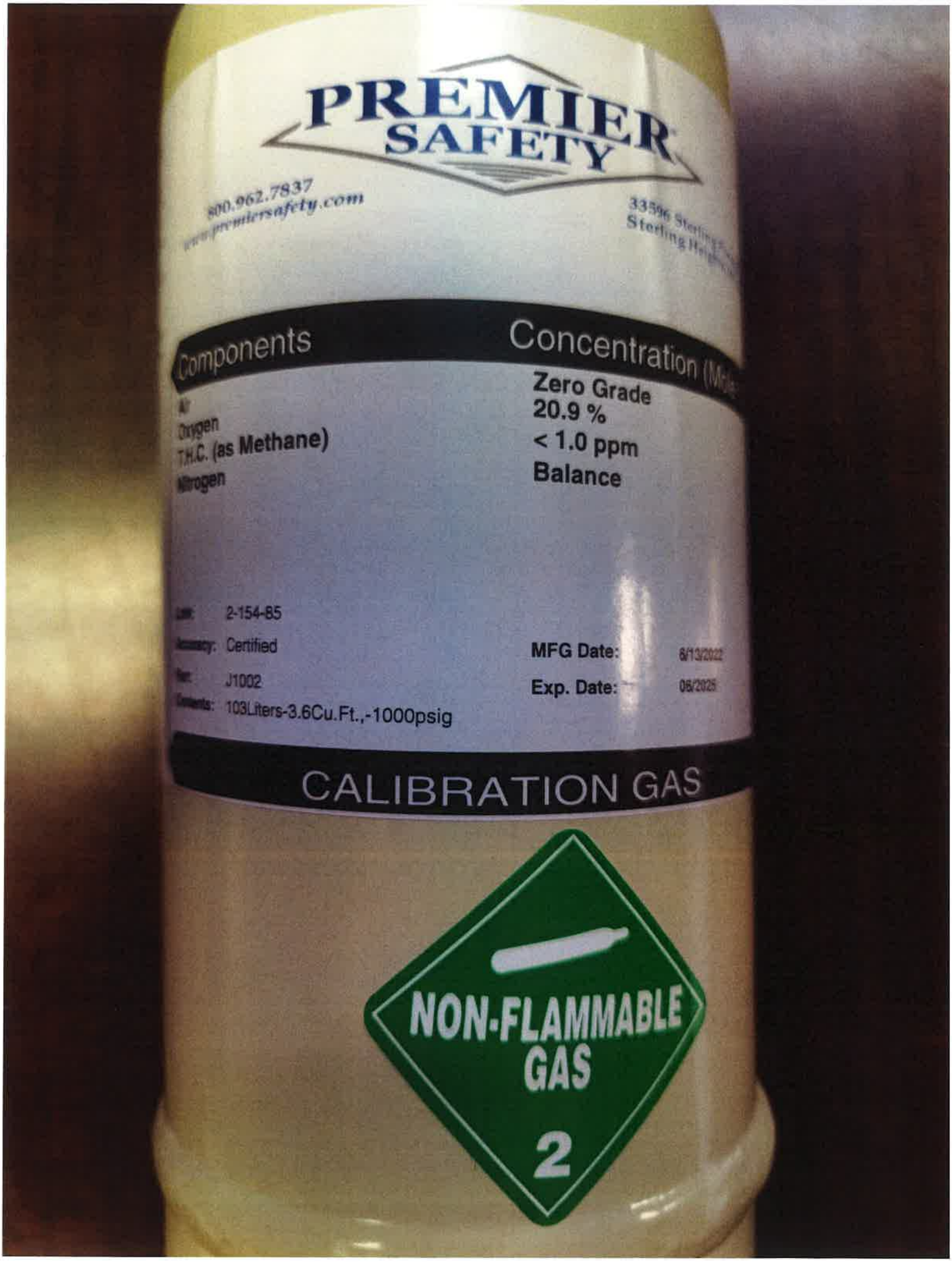
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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Sterling Heights
Components
Concentration (Mole
Air
Zero Grade
Oxygen
20.9 %
T.H.C. (as Methane)
< 1.0 ppm
Nitrogen
Balance
Lot: 2-154-85
Accuracy: Certified
MFG Date: 8/13/2022
Test: J1002
Exp. Date: 08/2025
Contents: 103Liters-3.6Cu.Ft.,-1000psig
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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

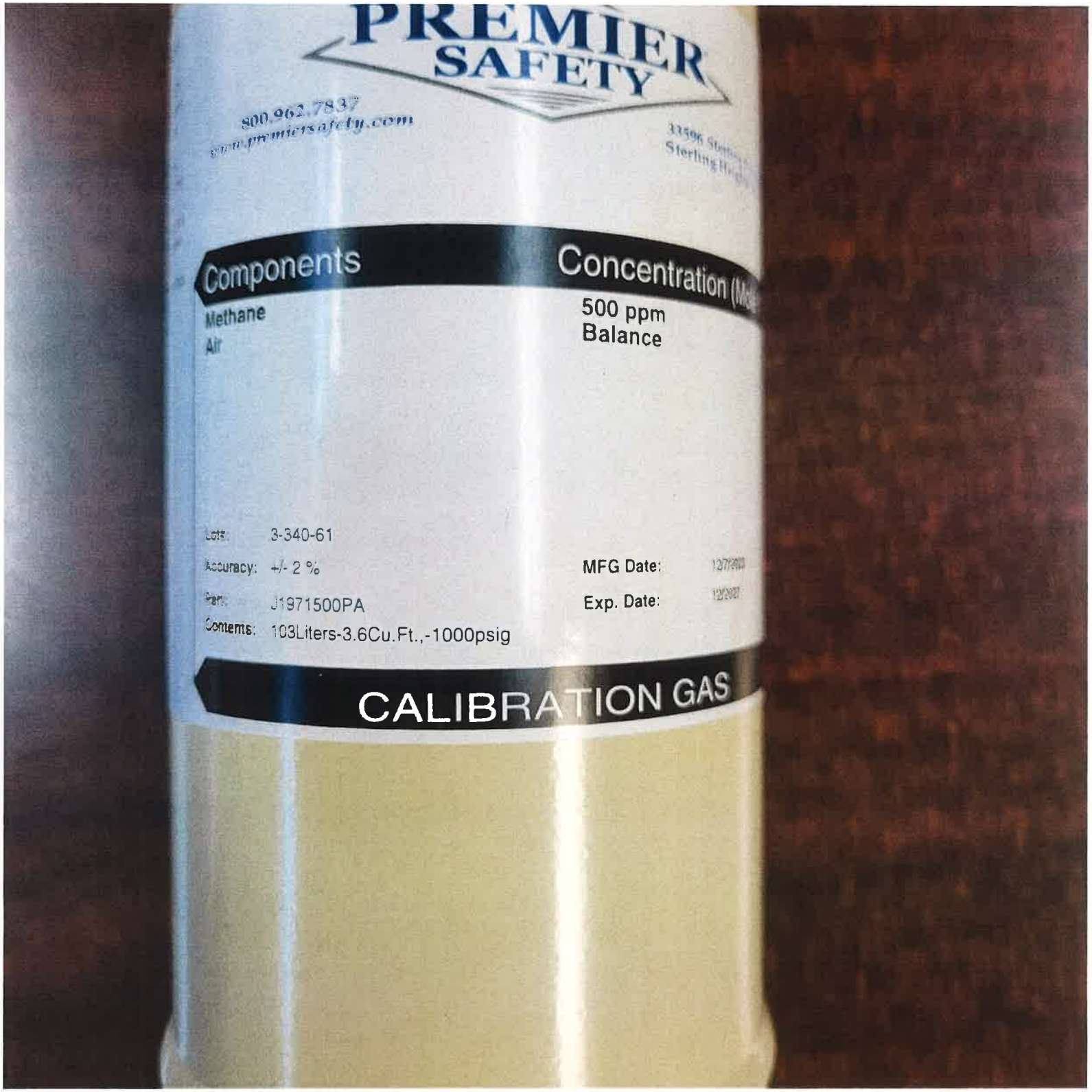
Component	Reported Concentration	Requested Concentration
Methane	500 ppm	500 ppm
Air	Balance	Balance

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: _____ Date Signed: 12/7/2023
Aaron Schwenken
Lab Manager

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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Components
Concentration
Methane
Air
500 ppm
Balance
Lot:
3-340-61
Accuracy:
+/- 2 %
MFG Date:
Part:
J1971500PA
Exp. Date:
Contents:
103Liters-3.6Cu.Ft.,-1000psig
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 73732858
PO Number 04B70733

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

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

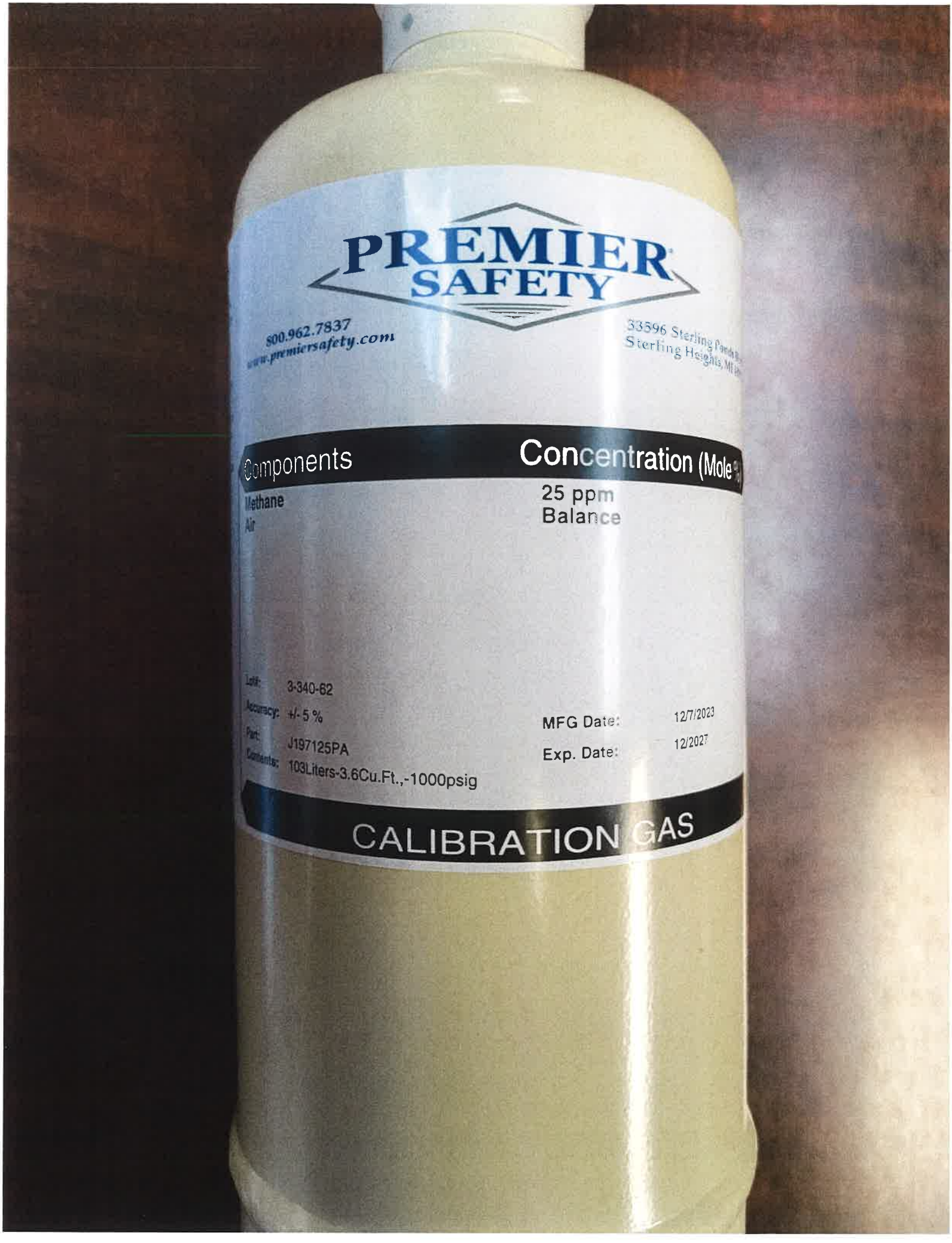
Component	Reported Concentration	Requested Concentration
Methane	25 ppm	25 ppm
Air	Balance	Balance

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: _____ Date Signed: 12/7/2023
Aaron Schwenken
Lab Manager

898 W. GOWEN ROAD • BOISE, IDAHO 83705
Phone (208) 336-1643 • Fax (208) 331-3038 • 800-657-6672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33596 Sterling Pond
Sterling Heights, MI
Components
Concentration (Mole %)
Methane
25 ppm
Air
Balance
Lot#: 3-340-62
Accuracy: +/- 5 %
Part: J197125PA
Contents: 103Liters-3.6Cu.Ft.,-1000psig
MFG Date: 12/7/2023
Exp. Date: 12/2027
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AIR BALANCE
Analytical Accuracy +/- 2%
103L @ 70F & 1000 PSIG
Lot# 260447
P/N MET-500-103L
EXP: JAN/2025
TUA
EQUIPCO
SALES & SERVICE
2100 MERIDIAN PARK BLVD
Concord, CA 94520
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AIR, ULTRA ZERO
THC <0.2 PPM
Analytical Accuracy +/- 2%
103L @ 70F & 1000 PSIG
Lot# 260362
P/N AIR-ZER-103L
EXP: JAN/2025
TUA
ZERO

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 11/9/23

Time: 825 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 = 509
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 3 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 2.5 ppm

Performed by: [signature]

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 12/4/23

Time: 535 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 = 506
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:

$\frac{(a) + (b)}{2}$ Background = 1.5 ppm

Performed by: RHB

RESPONSE TIME TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285380411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm
90% of the Stabilized Reading: 501 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 500 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: 502 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 5.0 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285384111

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 503 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1-2 % (must be < than 10%)

Performed By: RBB

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

December 28, 2023

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Fourth Quarter 2023- Supplemental Surface Emissions Monitoring Report for the Kirby Canyon Recycling and Disposal Facility

Dear Ms. Azevedo:

This monitoring report for the **"Kirby Canyon Recycling and Disposal Facility (KCRDF)"** contains the Fourth Quarter 2023 Instantaneous Surface Emissions Monitoring (SEM) performed by KCRDF.

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).

KCRDF 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 monitoring was conducted per the methods outlined in the July 1, 2016 ACO.

PROCEDURES

General Procedures

Field personnel walked the targeted areas of the landfill. During this monitoring event, special attention was given to monitoring unusual cover conditions (stressed vegetation, cracks, seeps, etc.) and any unusual odors in the targeted areas.

Instantaneous Surface Emissions Monitoring

The Instantaneous SEM was conducted using a Toxic Vapor Analyzer (TVA) 1000 flame ionization detector (FID), which was 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 FID was calibrated prior to use in accordance with the United States Environmental Protection Agency (USEPA) Method 21 requirements. The Instantaneous SEM procedures followed the requirements of 40 CFR 60.755 (c) and (d) and CCR Title 17 §95471(c)(2).

Field personnel walked the targeted areas of the landfill with the wand tip held at 2 inches from the landfill surface. All instantaneous surface monitoring was performed in accordance with the applicable requirements referenced in this report. Any detections of methane above 200 ppmv (areas of concern) or 500 ppmv (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Attachments of this report. Applicable corrective action and re-monitoring timelines are listed below:

- 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.

SUPPLEMENTAL SEM RESULTS

On November 6, 2023, during an Environmental Protection Agency (U.S. EPA) and BAAQMD, it is alleged that six surface emission locations in excess of 500 parts per million by volume as methane (ppm_v) above background were detected. The following is a summary of the supplemental SEM monitoring results completed on November 6, 9, and 29, 2023.

Instantaneous Surface Emission Monitoring Results

The Instantaneous surface monitoring of the targeted areas was performed on November 6, 9, and 29, 2023, in accordance with the NSPS, BAAQMD 8-34, 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 six locations identified with exceedances of 500 ppm_v as methane detected on November 6, 2023. Corrective actions to initiate repairs of the exceedances at these six locations were completed within five days at all locations (November 7, 2023).

Ten-Day Re-Monitoring Results

The 10-day re-monitoring event was completed on November 9, 2023. All six locations were observed at less than 500 ppm_v.

30-Day Re-Monitoring Results

The 30-day re-monitoring was completed on November 29, 2023. All locations were observed at less than 500 ppm_v and no exceedances were detected.

Readings between 200 ppm_v and 499 ppm_v (Initial)

There were zero (0) readings between 200 ppm_v and 499 ppm_v as methane detected during the initial monitoring event on November 6, 2023. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm_v but below 500 ppm_v are required to be recorded.

WEATHER CONDITIONS

The weather data from onsite meteorological station was used for this report. Based on the onsite data, the wind speeds during the SEM monitoring events was below ten miles per hour (mph).

Precipitation Requirements

No measurable precipitation was recorded during the monitoring period on November 6, 9, and 29, 2023.

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 500 ppmv 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 B.

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,

Rajan Phadnis
Environmental Protection Specialist
Waste Management of California, Inc

Attachment A – Instantaneous Surface Emission Monitoring Event Records

- Monitoring Logs and Exceedances

Attachment B – Calibration Records

- Instrument and Gas Calibration Records

Attachment A

Instantaneous Surface Emission Monitoring Event Records

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

2023 QUARTER: 4

INITIAL MONITORING PERFORMED BY: EPA and BAAQMD (during EPA inspection dated 11.6.2023)

FOLLOW-UP MONITORING PERFORMED BY: KCRDF (Tino Robles)

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Wind Direction NW **Wind Direction: NW**

Wind Speed: 10 **Wind Speed: 6**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
1	11/6/2023	5,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	9		11/29/2023	10		Well 82
2	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	24		11/29/2023	40		Well 124
3	11/6/2023	1,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	7		11/29/2023	15		Well 143
4	11/6/2023	10,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	14		11/29/2023	190		Well 84
5	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	17		11/29/2023	20		Well 57
6	11/6/2023	1,300	11/7/2023	Tuning, added soil and compacted	11/9/2023	28		11/29/2023	25		Well 75

Note: *Alleged six surface exceedance over 500 ppm identified during EPA inspection on 11.6.2023.

Attachment B

Calibration Records


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
TUA
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
TUA
ZERO

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 11/9/23

Time: 825 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 = 509
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 3 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 2.5 ppm

Performed by: [signature]

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 11/29/23

Time: 545 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 = 503
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 1.5 ppm

Performed by: [signature]

RESPONSE TIME TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285380411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm
90% of the Stabilized Reading: 501 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 500 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: 502 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 5.0 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285384111

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 503 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1-2 % (must be < than 10%)

Performed By: RBB

APPENDIX G

COMPONENT LEAK CHECK REPORTS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
THIRD QUARTER 2023 LFG COMPONENT LEAK MONITORING

INSTRUMENT	FID
MAKE:	Photo Scientific
MODEL:	TVA 1000
S/N:	1036346773

DATES OF SAMPLING: August 23, 2023
FIELD TECHNICIANS: Leigh Wade

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES WERE DETECTED DURING THE THIRD QUARTER 2023 MONITORING EVENT							
In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.							
NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).							
NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.							
ND = Not Detected							

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA
FOURTH QUARTER 2023 LFG COMPONENT LEAK MONITORING

INSTRUMENT FID
MAKE: Photo Scientific
MODEL: TVA 1000
S/N: 1036346773

DATES OF SAMPLING: November 14, 2023
FIELD TECHNICIANS: Leigh Wade

LOCATION OF LEAK	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	TECHNICIAN	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
NO EXCEEDANCES WERE DETECTED DURING THE FOURTH QUARTER 2023 MONITORING EVENT							
In the event that an exceedance is detected, please intiate corrective action and re-monitor the exceedance location within 7 days of the initial exceedance.							
NOTE: Leaks over 500 ppmv methane are exceedances at any component containing landfill gas, pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B).							
NOTE: Leaks over 1,000 ppmv methane are exceedances at any component containing landfill gas, pursuant to BAAQMD Regulation 8-34-301.2.							
ND = Not Detected							

APPENDIX H

MONTHLY SOLID WASTE PLACEMENT TOTALS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Solid Waste Placement Totals

July 1, 2023 through December 31, 2023

July	Disposed	August	Disposed	September	Disposed	October	Disposed	November	Disposed	December	Disposed
Total in Tons	18,629		22,301		20,753		19,966		20,014		17,148

Total Disposed July 1, 2023 through December 31, 2023 **118,810**

APPENDIX I

WELLFIELD MONITORING LOGS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - July 5, 6, and 7, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	7/6/2023 7:42	56.8	40.7	0.0	2.5	87.2	87.3	-12.8	-12.8
KCLC0109	7/6/2023 7:36	57.8	42.2	0.0	0.0	97.7	97.6	-36.9	-37.3
KCLC0110	7/6/2023 7:33	58.7	41.0	0.2	0.1	111.3	111.3	-38.3	-36.9
KCLC0111	7/6/2023 8:13	50.0	39.6	2.0	8.4	68.2	68.2	-34.9	-35.4
KCLC0112	7/6/2023 8:16	56.3	43.7	0.0	0.0	103.1	103.1	-31.2	-31.2
KCLC0139	7/5/2023 11:34	53.8	46.2	0.0	0.0	126.0	125.9	-16.3	-16.3
KCLC0140	7/5/2023 11:48	46.4	40.9	0.0	12.7	117.2	115.4	-17.8	-2.8
KCLC0141	7/5/2023 11:55	39.3	37.2	0.0	23.5	99.7	99.1	-4.2	-1.5
KCLC0142	7/5/2023 11:59	32.0	33.3	0.0	34.7	104.1	103.4	-0.5	-0.1
KCLC0143	7/5/2023 10:42	58.3	38.9	0.1	2.7	106.9	107.0	-1.9	-1.9
KCLC0145	7/7/2023 11:49	52.2	38.5	1.2	8.1	80.8	80.9	-29.0	-28.5
KCLC0147	7/7/2023 11:32	48.4	36.2	2.6	12.8	72.7	72.7	-28.3	-28.3
KCLC0149	7/7/2023 11:57	51.1	40.6	0.0	8.3	111.3	111.3	-12.2	-12.2
KCLC0151	7/7/2023 11:27	56.4	43.3	0.0	0.3	117.5	117.5	-22.2	-22.2
KCLC0152	7/7/2023 11:23	46.8	39.5	0.0	13.7	112.6	111.8	-14.3	-12.8
KCLC0153	7/7/2023 12:00	55.3	43.0	0.0	1.7	99.0	99.0	-3.8	-3.7
KCLC0154	7/7/2023 11:53	55.5	42.3	0.0	2.2	102.0	102.1	-2.7	-2.6
KCLC0155	7/7/2023 11:46	56.4	42.1	0.0	1.5	109.6	109.7	-2.4	-2.9
KCLC0156	7/7/2023 11:42	56.2	40.9	0.0	2.9	99.9	99.9	-28.4	-28.2
KCLC0157	7/7/2023 11:14	44.0	39.6	0.5	15.9	79.4	79.7	-23.8	-23.7
KCLC0158	7/5/2023 12:14	47.0	40.7	0.0	12.3	109.7	108.7	-8.9	-4.3
KCLC0159	7/6/2023 11:08	50.9	39.8	0.0	9.3	105.2	105.0	-7.2	-7.2
KCLC0160	7/6/2023 8:49	47.5	39.8	2.7	10.0	58.7	58.9	-33.1	-33.1
KCLC0161	7/6/2023 10:46	44.2	39.5	0.0	16.3	115.8	103.1	-22.8	-12.3
KCYN0014	7/6/2023 7:55	57.6	34.8	0.0	7.6	101.3	101.3	-3.1	-3.0
KCYN0027	7/7/2023 9:48	54.1	39.7	0.5	5.7	100.3	100.5	-40.7	-40.7
KCYN0048	7/6/2023 10:09	43.3	39.3	0.0	17.4	130.0	127.9	-3.5	-1.6
KCYN0051	7/5/2023 10:56	55.5	44.1	0.0	0.4	99.9	100.0	-20.5	-20.4
KCYN0054	7/5/2023 12:05	33.3	33.0	1.8	31.9	86.4	86.4	-34.3	-33.2
KCYN0056	7/5/2023 10:59	55.7	44.3	0.0	0.0	126.8	126.8	-20.1	-20.1
KCYN0057	7/5/2023 11:14	55.0	43.8	0.0	1.2	130.3	130.3	-17.5	-17.5
KCYN0058	7/5/2023 11:23	50.2	42.1	0.0	7.7	129.8	129.6	-12.4	-12.4
KCYN0062	7/7/2023 12:25	54.8	43.4	0.0	1.8	130.0	130.2	-12.3	-15.2
KCYN0063	7/7/2023 12:29	46.7	40.0	0.0	13.3	118.1	117.7	-4.5	-2.6
KCYN0065	7/5/2023 11:50	54.5	43.4	0.1	2.0	96.9	97.3	-18.0	-18.0
KCYN0066	7/6/2023 10:18	55.5	43.1	0.0	1.4	128.0	128.4	-16.6	-17.7
KCYN0070	7/7/2023 12:15	53.1	43.6	0.0	3.3	112.5	112.7	-9.8	-10.5
KCYN0071	7/7/2023 10:16	55.7	43.2	0.0	1.1	128.5	128.5	-36.9	-36.3
KCYN0072	7/7/2023 12:33	54.6	42.4	0.0	3.0	112.9	112.9	-5.7	-6.3
KCYN0074	7/7/2023 9:18	56.4	43.6	0.0	0.0	130.4	130.3	-39.1	-39.6
KCYN0075	7/5/2023 11:27	54.8	45.2	0.0	0.0	130.2	128.9	-14.7	-14.5
KCYN0076	7/6/2023 10:26	55.6	43.6	0.0	0.8	129.7	129.7	-24.1	-24.1
KCYN0078	7/7/2023 8:52	57.3	42.6	0.0	0.1	129.3	129.1	-22.4	-22.0
KCYN0082	7/5/2023 12:09	52.0	41.1	0.0	6.9	116.4	116.5	-6.5	-6.8
KCYN0084	7/5/2023 10:46	56.7	42.4	0.0	0.9	109.6	116.3	0.0	-1.2
KCYN0086	7/7/2023 11:06	53.8	42.4	0.2	3.6	128.1	128.6	-23.4	-24.1
KCYN0087	7/6/2023 11:47	46.5	39.2	0.0	14.3	127.1	126.7	-13.7	-7.6
KCYN0088	7/7/2023 10:23	54.1	38.4	0.0	7.5	109.5	109.6	-23.2	-23.3
KCYN0089	7/6/2023 11:20	54.0	42.1	0.0	3.9	129.3	130.6	-18.5	-19.2
KCYN0090	7/7/2023 10:28	47.9	37.8	0.0	14.3	102.6	90.4	-38.7	-31.2
KCYN0091	7/7/2023 10:56	55.0	42.8	0.0	2.2	128.6	129.1	-12.2	-12.2
KCYN0092	7/7/2023 9:15	56.2	42.7	0.4	0.7	115.4	115.0	-32.5	-32.5
KCYN0093	7/7/2023 9:24	47.7	39.7	0.0	12.6	117.3	116.1	-36.1	-21.0
KCYN0094	7/7/2023 10:36	50.1	40.6	0.0	9.3	127.8	127.9	-27.7	-27.6
KCYN0095	7/7/2023 10:33	56.5	41.6	0.0	1.9	123.6	123.7	-37.7	-38.2
KCYN0097	7/7/2023 12:08	53.2	41.9	0.0	4.9	120.4	120.4	-24.3	-23.9
KCYN0098	7/7/2023 10:41	51.0	40.9	0.0	8.1	127.3	126.2	-11.7	-8.9
KCYN0099	7/7/2023 12:19	50.2	42.1	0.0	7.7	129.8	129.5	-14.6	-14.6
KCYN0101	7/7/2023 9:54	55.6	40.6	0.4	3.4	85.5	87.4	-1.3	-3.8
KCYN0102	7/7/2023 10:12	58.7	41.0	0.0	0.3	101.0	104.2	-0.9	-2.1
KCYN0103	7/7/2023 10:07	56.2	41.3	0.0	2.5	115.7	116.4	-2.9	-3.3
KCYN0105	7/6/2023 8:09	55.7	41.8	0.7	1.8	75.9	76.2	-35.6	-35.6
KCYN0118	7/6/2023 10:43	54.4	43.4	0.0	2.2	117.1	116.9	-29.6	-33.8
KCYN0119	7/6/2023 10:36	56.4	43.6	0.0	0.0	130.5	130.4	-2.8	-2.8
KCYN0121	7/6/2023 8:55	47.4	39.4	1.1	12.1	106.4	97.3	-28.6	-6.7

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - July 5, 6, and 7, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0122	7/6/2023 10:39	55.7	44.3	0.0	0.0	107.2	107.6	-28.1	-28.1
KCYN0123	7/5/2023 11:06	40.0	34.6	3.9	21.5	92.3	90.0	-1.3	-1.1
KCYN0124	7/5/2023 12:18	56.4	43.6	0.0	0.0	110.6	111.1	-0.6	-1.4
KCYN0125	7/5/2023 11:38	54.9	45.1	0.0	0.0	130.5	130.4	-13.3	-13.3
KCYN0126	7/5/2023 11:30	55.3	44.0	0.0	0.7	127.5	127.5	-11.7	-11.7
KCYN0127	7/5/2023 11:11	51.8	41.6	0.0	6.6	122.1	122.8	-23.1	-24.0
KCYN0128	7/7/2023 11:12	51.7	42.4	0.0	5.9	129.8	129.8	-24.7	-24.7
KCYN0129	7/7/2023 11:20	57.9	40.6	0.2	1.3	112.3	112.3	-26.7	-26.7
KCYN0130	7/6/2023 8:02	57.6	38.1	0.0	4.3	111.4	111.3	-3.7	-3.7
KCYN0131	7/6/2023 8:06	57.0	42.5	0.3	0.2	111.9	111.9	-36.4	-36.9
KCYN0133	7/7/2023 8:48	59.6	39.9	0.3	0.2	95.4	95.7	-24.2	-22.9
KCYN0134	7/7/2023 9:01	55.8	41.9	0.9	1.4	82.9	82.5	-22.6	-21.4
KCYN0135	7/7/2023 9:05	56.0	44.0	0.0	0.0	127.8	127.9	-20.1	-20.7
KCYN0162	7/6/2023 8:43	50.7	39.6	0.4	9.3	62.5	64.2	-31.6	-31.6
KCYN0163	7/6/2023 8:36	39.5	35.7	0.0	24.8	91.1	91.0	-7.2	-7.2
KCYN0164	7/6/2023 11:00	53.0	41.8	0.0	5.2	86.4	86.4	-32.8	-32.5
KCYN0165	7/6/2023 11:05	46.7	38.9	0.0	14.4	119.2	119.0	-28.1	-20.9
KCYN0166	7/6/2023 10:03	53.5	41.6	0.0	4.9	130.4	130.3	-4.0	-4.9
KCYN0167	7/6/2023 9:59	54.7	41.0	0.0	4.3	118.5	118.5	-32.5	-32.5
KCYN0168	7/6/2023 9:49	40.8	34.3	0.8	24.1	126.4	124.9	-22.4	-18.8
KCYNLR04	7/6/2023 11:30	52.7	38.0	0.6	8.7	98.9	98.9	-20.9	-22.1
KCYNLR08	7/7/2023 7:38	4.7	2.4	16.7	76.2	59.6	59.5	-48.0	-47.9
KCYNLR11	7/6/2023 7:48	59.2	40.8	0.0	0.0	66.2	66.2	-0.1	-0.1

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of July 31, 2023, there are 85 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - August 1, 2, and 3, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	8/1/2023 8:01	56.8	40.3	0.0	2.9	89.1	92.3	-13.5	-24.7
KCLC0109	8/1/2023 7:53	57.6	42.4	0.0	0.0	98.6	98.6	-39.0	-39.5
KCLC0110	8/1/2023 7:49	55.4	42.1	0.1	2.4	110.0	110.6	-38.8	-38.7
KCLC0111	8/1/2023 8:43	56.4	43.4	0.0	0.2	69.0	69.5	-37.2	-38.0
KCLC0112	8/1/2023 8:39	57.3	42.7	0.0	0.0	101.7	101.7	-35.2	-35.4
KCLC0139	8/2/2023 11:29	55.1	44.9	0.0	0.0	115.6	115.6	-16.9	-16.9
KCLC0140	8/2/2023 11:25	56.4	43.6	0.0	0.0	96.9	101.4	-2.2	-17.4
KCLC0141	8/2/2023 11:11	53.9	40.6	0.0	5.5	94.2	97.2	-1.2	-4.2
KCLC0142	8/2/2023 11:06	50.9	38.4	0.0	10.7	89.5	89.6	-0.1	-0.1
KCLC0143	8/2/2023 7:30	56.4	41.5	0.0	2.1	106.0	106.3	-1.6	-2.2
KCLC0145	8/3/2023 7:33	53.6	39.8	1.5	5.1	61.0	61.0	-29.6	-29.6
KCLC0147	8/3/2023 7:55	54.3	40.6	1.0	4.1	59.3	59.3	-27.9	-27.6
KCLC0149	8/3/2023 7:37	56.4	43.6	0.0	0.0	100.1	100.7	-4.8	-7.4
KCLC0151	8/3/2023 7:57	56.4	43.6	0.0	0.0	117.7	117.7	-21.9	-21.8
KCLC0152	8/3/2023 8:01	56.3	42.8	0.0	0.9	107.4	109.9	-4.9	-6.7
KCLC0153	8/3/2023 7:23	58.4	41.3	0.3	0.0	97.4	97.9	-2.2	-3.4
KCLC0154	8/3/2023 7:45	56.8	43.2	0.0	0.0	100.7	101.3	-1.7	-2.4
KCLC0155	8/3/2023 7:29	57.2	42.8	0.0	0.0	109.2	109.7	-2.9	-3.8
KCLC0156	8/3/2023 7:49	56.9	43.1	0.0	0.0	98.7	98.7	-27.8	-27.5
KCLC0157	8/3/2023 8:15	58.8	35.4	1.6	4.2	56.4	56.4	-17.0	-17.0
KCLC0158	8/2/2023 10:58	55.3	41.8	0.0	2.9	107.6	109.3	-4.3	-8.0
KCLC0159	8/1/2023 9:43	51.7	40.7	0.0	7.6	106.4	106.6	-7.1	-9.6
KCLC0160	8/1/2023 9:15	54.7	42.9	0.3	2.1	63.7	61.3	-33.9	-35.4
KCLC0161	8/1/2023 9:24	56.0	44.0	0.0	0.0	103.1	109.7	-4.2	-7.2
KCYN0014	8/1/2023 8:05	57.5	34.2	0.0	8.3	101.6	101.9	-3.4	-3.4
KCYN0027	8/3/2023 9:47	57.2	41.5	0.1	1.2	92.1	98.6	-10.2	-19.1
KCYN0048	8/1/2023 10:05	55.2	44.6	0.0	0.2	109.8	119.4	-0.3	-2.4
KCYN0051	8/2/2023 7:38	56.1	43.9	0.0	0.0	99.7	99.7	-19.0	-18.6
KCYN0054	8/2/2023 11:14	31.8	32.1	2.8	33.3	77.8	78.0	-28.7	-29.1
KCYN0056	8/2/2023 7:41	55.7	44.3	0.0	0.0	126.6	126.6	-21.0	-21.0
KCYN0057	8/2/2023 7:57	55.6	43.9	0.0	0.5	130.6	130.5	-17.9	-18.7
KCYN0058	8/2/2023 8:04	52.5	42.1	0.0	5.4	130.0	130.0	-12.6	-12.6
KCYN0062	8/3/2023 12:47	55.1	43.2	0.0	1.7	130.0	130.2	-11.6	-14.4
KCYN0063	8/3/2023 12:43	56.0	42.4	0.0	1.6	117.7	118.3	-1.8	-2.8
KCYN0065	8/2/2023 11:21	56.3	43.7	0.0	0.0	89.4	88.2	-19.7	-18.7
KCYN0066	8/1/2023 10:11	56.6	43.4	0.0	0.0	128.4	128.5	-19.7	-22.7
KCYN0070	8/3/2023 11:17	53.8	43.2	0.0	3.0	112.9	112.8	-11.1	-11.7
KCYN0071	8/3/2023 10:21	55.6	43.4	0.0	1.0	129.9	129.9	-34.6	-35.5
KCYN0072	8/3/2023 12:52	50.7	40.4	0.0	8.9	112.8	112.8	-8.3	-8.3
KCYN0074	8/2/2023 12:47	56.1	43.9	0.0	0.0	129.1	128.8	-40.8	-40.8
KCYN0075	8/2/2023 8:07	55.5	44.5	0.0	0.0	128.2	127.7	-15.0	-15.0
KCYN0076	8/3/2023 8:35	56.4	43.6	0.0	0.0	128.1	130.5	-27.4	-27.2
KCYN0078	8/2/2023 12:27	56.4	43.0	0.0	0.6	130.7	130.4	-20.4	-20.4
KCYN0082	8/2/2023 11:02	53.4	41.2	0.0	5.4	116.6	116.6	-7.7	-7.6
KCYN0084	8/2/2023 7:34	53.3	42.3	0.0	4.4	121.4	121.7	-2.0	-2.6
KCYN0086	8/3/2023 8:22	56.1	43.9	0.0	0.0	130.4	130.5	-25.1	-24.6
KCYN0087	8/2/2023 13:07	55.1	42.9	0.0	2.0	130.5	130.4	-3.5	-6.1
KCYN0088	8/3/2023 10:41	54.1	38.8	0.0	7.1	109.4	109.5	-22.9	-22.4
KCYN0089	8/3/2023 8:30	49.3	38.4	2.4	9.9	130.8	126.6	-19.4	-13.8
KCYN0090	8/3/2023 10:47	50.2	44.7	0.0	5.1	104.6	106.9	-33.6	-37.9
KCYN0091	8/3/2023 8:40	56.9	43.1	0.0	0.0	129.1	130.1	-9.1	-10.1
KCYN0092	8/2/2023 12:44	56.9	43.1	0.0	0.0	122.5	122.8	-33.8	-33.8
KCYN0093	8/2/2023 12:54	55.6	42.3	0.0	2.1	120.5	121.0	-5.8	-6.9
KCYN0094	8/3/2023 10:55	56.2	42.4	0.0	1.4	128.1	128.1	-14.1	-14.8
KCYN0095	8/3/2023 11:03	56.9	42.9	0.0	0.2	123.9	123.9	-36.6	-36.8
KCYN0097	8/3/2023 11:13	56.5	43.3	0.0	0.2	120.7	120.7	-24.3	-26.0
KCYN0098	8/3/2023 11:00	56.5	42.9	0.0	0.6	128.5	128.8	-3.2	-3.9
KCYN0099	8/3/2023 11:22	50.6	42.5	0.0	6.9	128.5	128.3	-13.5	-13.5
KCYN0101	8/3/2023 9:56	58.9	41.1	0.0	0.0	85.6	89.2	-0.4	-2.2
KCYN0102	8/3/2023 10:05	56.8	41.2	0.0	2.0	106.3	106.7	-2.2	-2.1
KCYN0103	8/3/2023 10:01	57.6	41.7	0.0	0.7	112.6	114.1	-1.7	-2.3
KCYN0105	8/1/2023 8:51	55.2	42.0	0.5	2.3	73.3	74.5	-36.3	-36.3
KCYN0118	8/1/2023 9:21	55.7	44.3	0.0	0.0	117.2	117.8	-34.0	-32.4
KCYN0119	8/1/2023 9:48	56.1	43.9	0.0	0.0	130.5	130.6	-2.0	-2.4
KCYN0121	8/1/2023 9:19	56.0	44.0	0.0	0.0	105.0	110.3	-12.0	-22.5
KCYN0122	8/1/2023 9:27	55.6	44.4	0.0	0.0	106.8	107.4	-31.2	-31.3
KCYN0123	8/2/2023 7:47	42.8	34.7	3.2	19.3	103.6	103.0	-2.5	-2.5
KCYN0124	8/2/2023 7:25	57.3	42.6	0.1	0.0	109.7	110.7	-0.7	-1.5
KCYN0125	8/2/2023 11:18	56.2	43.8	0.0	0.0	129.8	128.9	-14.1	-14.1
KCYN0126	8/2/2023 11:32	55.9	44.1	0.0	0.0	127.5	127.5	-12.0	-12.0
KCYN0127	8/2/2023 7:52	53.1	41.3	0.0	5.6	122.6	122.5	-23.7	-23.8

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - August 1, 2, and 3, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	8/3/2023 8:18	53.2	43.1	0.0	3.7	127.7	124.4	-24.1	-24.1
KCYN0129	8/3/2023 8:07	57.1	42.7	0.2	0.0	110.6	110.6	-26.2	-26.2
KCYN0130	8/1/2023 8:24	56.4	37.8	0.0	5.8	111.1	111.3	-4.2	-4.3
KCYN0131	8/1/2023 8:46	56.3	43.7	0.0	0.0	113.9	113.9	-37.9	-38.4
KCYN0133	8/2/2023 12:31	56.0	44.0	0.0	0.0	108.2	108.2	-21.3	-22.1
KCYN0134	8/2/2023 12:11	55.5	43.2	0.3	1.0	88.2	88.3	-20.9	-20.9
KCYN0135	8/2/2023 12:08	55.8	44.2	0.0	0.0	128.0	127.9	-19.0	-19.0
KCYN0162	8/1/2023 9:10	46.6	35.4	3.3	14.7	72.6	72.7	-35.2	-35.0
KCYN0163	8/1/2023 9:06	52.5	41.1	0.0	6.4	88.0	96.0	-2.5	-11.2
KCYN0164	8/1/2023 9:35	56.8	43.2	0.0	0.0	84.3	84.8	-35.3	-35.5
KCYN0165	8/1/2023 9:39	53.8	42.4	0.0	3.8	119.6	119.7	-14.9	-16.0
KCYN0166	8/1/2023 10:01	51.8	41.8	0.0	6.4	130.5	130.8	-5.4	-6.0
KCYN0167	8/1/2023 9:57	57.0	42.6	0.0	0.4	118.4	118.4	-31.1	-31.9
KCYN0168	8/1/2023 9:53	56.3	43.7	0.0	0.0	124.6	125.2	-0.5	-2.0
KCYNLR04	8/2/2023 12:02	59.2	40.7	0.0	0.1	99.4	99.5	-4.8	-7.8
KCYNLR08	8/3/2023 12:59	2.5	4.0	15.0	78.5	87.6	87.0	-48.0	-48.7
KCYNLR11	8/1/2023 7:57	57.8	40.8	0.0	1.4	66.8	67.0	-0.7	-0.7

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of August 31, 2023, there are 85 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - September 1, 5, 6, and 7, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	9/1/2023 8:28	47.9	38.0	0.2	13.9	98.7	96.1	-27.7	-17.4
KCLC0109	9/1/2023 7:54	56.9	43.1	0.0	0.0	89.5	94.0	-36.5	-37.4
KCLC0110	9/1/2023 7:46	56.4	42.8	0.1	0.7	111.1	111.1	-37.6	-37.8
KCLC0111	9/1/2023 11:27	55.1	43.0	0.0	1.9	78.1	78.4	-36.3	-36.0
KCLC0112	9/1/2023 9:19	56.5	43.5	0.0	0.0	107.7	101.1	-32.9	-32.3
KCLC0139	9/6/2023 7:54	54.8	45.2	0.0	0.0	126.9	127.0	-22.1	-22.1
KCLC0140	9/6/2023 7:48	43.6	39.1	0.1	17.2	116.4	105.9	-21.2	-1.1
KCLC0141	9/6/2023 7:07	31.7	33.6	0.0	34.7	97.8	96.5	-5.0	-1.7
KCLC0142	9/6/2023 7:03	31.8	33.1	0.0	35.1	93.5	93.6	-0.3	-0.3
KCLC0143	9/6/2023 8:23	40.7	38.0	0.0	21.3	106.7	103.6	-2.3	-0.6
KCLC0145	9/7/2023 7:52	49.4	36.8	2.5	11.3	58.6	58.0	-32.5	-24.7
KCLC0147	9/7/2023 8:28	49.7	37.8	2.6	9.9	61.9	61.7	-32.6	-29.4
KCLC0149	9/7/2023 7:30	55.7	42.5	0.0	1.8	101.1	101.1	-7.1	-7.1
KCLC0151	9/7/2023 8:31	56.4	43.6	0.0	0.0	117.8	117.8	-25.4	-25.4
KCLC0152	9/7/2023 8:36	50.5	42.0	0.0	7.5	110.1	109.5	-8.8	-8.1
KCLC0153	9/7/2023 7:23	58.1	41.8	0.0	0.1	98.1	98.4	-3.7	-3.7
KCLC0154	9/7/2023 7:35	54.3	42.7	0.0	3.0	102.0	100.8	-3.3	-1.9
KCLC0155	9/7/2023 7:54	56.8	43.2	0.0	0.0	110.7	110.8	-4.5	-4.5
KCLC0156	9/7/2023 8:11	57.2	42.7	0.1	0.0	90.1	98.3	-30.9	-14.2
KCLC0157	9/6/2023 9:36	45.3	38.9	2.7	13.1	68.5	68.5	-29.6	-29.5
KCLC0158	9/6/2023 8:12	45.9	40.8	0.0	13.3	110.9	102.3	-8.7	-1.6
KCLC0159	9/1/2023 11:56	47.8	37.6	0.0	14.6	107.6	104.4	-9.0	-1.9
KCLC0160	9/1/2023 10:19	48.4	39.6	1.7	10.3	71.1	71.7	-33.9	-35.1
KCLC0161	9/1/2023 10:50	50.3	42.0	0.0	7.7	116.2	116.3	-12.9	-12.8
KCYN0014	9/1/2023 8:42	55.7	33.6	0.0	10.7	102.5	102.3	-3.2	-3.1
KCYN0027	9/5/2023 10:01	56.8	43.0	0.0	0.2	99.3	100.4	-14.9	-17.7
KCYN0048	9/1/2023 11:16	41.5	38.1	0.0	20.4	129.1	128.4	-2.5	-1.8
KCYN0051	9/6/2023 8:18	55.8	43.4	0.0	0.8	100.3	100.3	-17.2	-17.1
KCYN0054	9/6/2023 7:38	33.3	33.8	3.6	29.3	73.6	74.4	-9.5	-9.5
KCYN0056	9/6/2023 9:00	55.6	44.4	0.0	0.0	126.8	126.8	-27.9	-27.9
KCYN0057	9/6/2023 8:39	54.1	43.8	0.0	2.1	130.2	130.1	-25.3	-25.3
KCYN0058	9/6/2023 8:52	49.5	41.8	0.0	8.7	130.6	128.5	-14.0	-11.6
KCYN0062	9/5/2023 7:45	54.9	42.5	0.0	2.6	129.3	129.6	-13.8	-15.5
KCYN0063	9/5/2023 7:51	47.0	40.4	0.0	12.6	118.6	118.3	-3.8	-2.6
KCYN0065	9/6/2023 7:44	55.8	44.2	0.0	0.0	81.8	82.2	-25.0	-24.9
KCYN0066	9/1/2023 11:20	55.7	42.9	0.0	1.4	128.1	128.4	-26.3	-29.0
KCYN0070	9/5/2023 8:19	54.0	42.8	0.0	3.2	112.7	112.6	-11.8	-13.0
KCYN0071	9/5/2023 9:22	54.7	44.1	0.0	1.2	129.6	129.6	-36.9	-37.1
KCYN0072	9/5/2023 8:04	53.3	41.8	0.0	4.9	111.8	111.7	-6.3	-6.3
KCYN0074	9/5/2023 10:20	56.3	43.7	0.0	0.0	129.6	129.8	-40.7	-41.2
KCYN0075	9/6/2023 8:57	55.5	44.5	0.0	0.0	128.1	128.4	-18.4	-18.5
KCYN0076	9/1/2023 10:40	56.1	43.7	0.0	0.2	130.4	129.7	-27.2	-27.6
KCYN0078	9/5/2023 10:59	56.0	44.0	0.0	0.0	129.5	128.9	-24.2	-24.3
KCYN0082	9/6/2023 8:05	47.0	40.2	0.0	12.8	116.7	115.9	-8.2	-4.6
KCYN0084	9/6/2023 8:28	46.5	40.2	0.0	13.3	122.2	114.4	-3.1	-0.7
KCYN0086	9/6/2023 9:24	55.7	44.1	0.0	0.2	129.4	130.4	-28.1	-24.5
KCYN0087	9/6/2023 9:48	48.0	42.6	0.0	9.4	130.1	127.3	-14.7	-13.9
KCYN0088	9/5/2023 8:56	54.4	38.7	0.0	6.9	109.8	109.8	-22.8	-22.3
KCYN0089	9/5/2023 10:45	56.9	43.0	0.0	0.1	127.3	124.5	-4.1	-4.2
KCYN0090	9/5/2023 9:02	49.5	44.0	0.0	6.5	99.4	101.5	-38.6	-38.5
KCYN0091	9/5/2023 8:35	56.4	43.6	0.0	0.0	130.4	130.6	-10.8	-11.5
KCYN0092	9/5/2023 10:16	56.6	43.1	0.0	0.3	122.8	123.5	-32.6	-34.0
KCYN0093	9/5/2023 10:24	54.5	42.5	0.0	3.0	122.4	122.6	-9.5	-10.0
KCYN0094	9/5/2023 8:51	54.8	43.5	0.0	1.7	127.9	127.9	-17.3	-17.8
KCYN0095	9/5/2023 8:46	56.6	43.4	0.0	0.0	123.6	123.7	-35.4	-35.0
KCYN0097	9/5/2023 8:29	56.1	43.9	0.0	0.0	120.4	120.5	-27.9	-29.8
KCYN0098	9/5/2023 8:41	56.0	43.7	0.0	0.3	129.1	127.8	-6.6	-7.4
KCYN0099	9/5/2023 8:14	49.2	42.0	0.0	8.8	130.5	126.7	-14.8	-11.3
KCYN0101	9/5/2023 9:31	48.8	38.0	0.0	13.2	97.0	97.1	-2.4	-2.4
KCYN0102	9/5/2023 9:36	54.1	41.0	0.0	4.9	105.1	105.4	-1.7	-1.8
KCYN0103	9/5/2023 9:27	53.1	40.9	0.0	6.0	117.7	117.8	-4.5	-4.5
KCYN0105	9/1/2023 11:34	54.9	41.9	0.3	2.9	89.6	90.0	-36.4	-36.0
KCYN0118	9/1/2023 10:56	54.8	43.3	0.0	1.9	116.1	117.7	-29.8	-32.8
KCYN0119	9/1/2023 10:34	55.6	43.7	0.0	0.7	128.3	128.7	-1.9	-1.9
KCYN0121	9/1/2023 11:01	55.4	43.9	0.0	0.7	114.6	114.7	-27.3	-30.4
KCYN0122	9/1/2023 10:28	55.9	43.9	0.0	0.2	112.3	113.3	-29.1	-29.3
KCYN0123	9/6/2023 8:45	41.9	33.7	3.3	21.1	105.4	103.6	-3.2	-3.1
KCYN0124	9/6/2023 8:15	56.7	43.3	0.0	0.0	111.5	111.5	-2.5	-2.5
KCYN0125	9/6/2023 7:41	56.0	43.9	0.1	0.0	130.6	130.7	-18.3	-18.3
KCYN0126	9/6/2023 7:57	54.3	44.0	0.0	1.7	127.3	127.3	-15.7	-15.6
KCYN0127	9/6/2023 8:34	48.6	41.7	0.0	9.7	121.7	116.8	-23.7	-16.7

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - September 1, 5, 6, and 7, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	9/6/2023 9:40	52.0	43.5	0.0	4.5	128.7	129.2	-29.8	-29.9
KCYN0129	9/7/2023 8:39	57.2	42.8	0.0	0.0	112.6	112.6	-32.0	-32.0
KCYN0130	9/1/2023 11:39	52.2	36.8	0.0	11.0	112.5	112.4	-3.4	-3.4
KCYN0131	9/1/2023 11:30	55.9	43.1	0.0	1.0	117.5	117.3	-37.4	-36.8
KCYN0133	9/5/2023 10:55	55.7	43.7	0.0	0.6	117.2	117.1	-26.1	-23.9
KCYN0134	9/5/2023 11:04	55.0	43.3	0.0	1.7	94.3	93.6	-25.3	-23.8
KCYN0135	9/5/2023 11:10	54.2	44.6	0.0	1.2	128.6	128.6	-23.8	-22.5
KCYN0162	9/1/2023 9:50	55.3	41.4	0.4	2.9	79.3	78.4	-35.2	-34.7
KCYN0163	9/1/2023 9:29	53.9	41.7	0.0	4.4	93.6	101.9	-6.2	-14.9
KCYN0164	9/1/2023 11:51	56.4	41.3	0.0	2.3	91.2	91.1	-34.6	-34.6
KCYN0165	9/1/2023 12:00	49.5	40.0	0.0	10.5	119.4	119.4	-18.7	-18.6
KCYN0166	9/1/2023 11:12	51.0	40.9	0.0	8.1	130.4	130.5	-3.8	-3.8
KCYN0167	9/1/2023 11:08	56.3	41.9	0.0	1.8	118.5	118.6	-32.4	-32.5
KCYN0168	9/1/2023 11:05	54.3	42.0	0.0	3.7	124.8	124.9	-4.5	-4.4
KCYNLR04	9/6/2023 6:56	57.6	39.2	0.7	2.5	99.1	99.1	-9.5	-10.6
KCYNLR08	9/5/2023 7:36	0.7	5.8	15.4	78.1	62.0	62.2	-43.5	-43.4
KCYNLR11	9/1/2023 8:34	45.7	36.9	0.5	16.9	69.3	71.5	-0.3	-0.1

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of September 30, 2023, there are 85 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - October 2, 3, 4, and 18, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	10/2/2023 8:37	57.20	42.10	0.00	0.70	76.60	78.10	-11.61	-13.99
KCLC0109	10/2/2023 8:26	57.30	42.70	0.00	0.00	90.00	90.60	-36.11	-36.09
KCLC0110	10/2/2023 8:20	57.00	42.70	0.30	0.00	106.70	107.10	-39.90	-39.87
KCLC0111	10/2/2023 10:31	56.10	43.20	0.20	0.50	74.40	74.40	-39.41	-38.78
KCLC0112	10/2/2023 10:28	56.20	43.80	0.00	0.00	105.00	105.10	-32.58	-32.63
KCLC0139	10/4/2023 10:13	54.80	45.20	0.00	0.00	124.30	124.90	-23.20	-23.21
KCLC0140	10/4/2023 8:47	55.60	44.40	0.00	0.00	100.70	108.20	-0.98	-16.27
KCLC0141	10/4/2023 8:33	49.20	39.40	0.00	11.40	95.30	94.80	-0.85	-0.65
KCLC0142	10/4/2023 8:29	52.50	38.70	0.00	8.80	102.50	102.40	-0.11	-0.07
KCLC0143	10/4/2023 9:27	55.10	41.90	0.00	3.00	106.60	107.50	-0.28	-0.70
KCLC0145	10/4/2023 12:18	56.30	42.60	0.00	1.10	94.20	92.80	-8.12	-33.01
KCLC0147	10/4/2023 12:02	56.70	42.40	0.00	0.90	86.40	82.60	-27.39	-34.00
KCLC0149	10/4/2023 12:25	54.10	42.40	0.00	3.50	110.90	111.10	-6.16	-8.86
KCLC0151	10/4/2023 11:53	54.80	43.20	0.00	2.00	118.20	118.20	-26.70	-26.70
KCLC0152	10/4/2023 11:47	46.40	39.50	0.00	14.10	113.80	111.60	-8.75	-6.95
KCLC0153	10/4/2023 12:29	54.20	43.00	0.00	2.80	99.70	99.70	-3.56	-3.90
KCLC0154	10/4/2023 12:22	54.80	43.00	0.00	2.20	102.80	103.00	-1.77	-2.01
KCLC0155	10/4/2023 12:15	55.40	43.20	0.00	1.40	112.10	112.30	-4.74	-5.59
KCLC0156	10/4/2023 12:07	56.30	42.50	0.00	1.20	100.80	101.30	-13.11	-17.95
KCLC0157	10/4/2023 10:45	46.30	36.50	3.00	14.20	84.40	83.60	-26.13	-23.13
KCLC0158	10/4/2023 9:11	55.30	44.10	0.00	0.60	98.30	107.60	-1.02	-4.48
KCLC0159	10/2/2023 9:17	57.50	42.50	0.00	0.00	95.60	106.00	-0.18	-2.24
KCLC0160	10/2/2023 10:02	47.50	39.10	2.30	11.10	68.70	68.90	-38.37	-25.35
KCLC0161	10/2/2023 9:47	49.90	41.70	0.00	8.40	115.00	108.00	-14.01	-7.50
KCYN0014	10/2/2023 8:41	57.50	34.30	0.00	8.20	101.10	101.10	-3.58	-3.58
KCYN0027	10/4/2023 7:59	57.00	42.80	0.20	0.00	85.20	86.50	-8.01	-10.42
KCYN0048	10/2/2023 11:06	52.00	43.60	0.00	4.40	127.10	127.90	-1.00	-1.08
KCYN0051	10/4/2023 9:37	54.70	43.30	0.00	2.00	101.30	101.30	-18.41	-18.52
KCYN0054	10/4/2023 8:39	41.70	37.30	0.00	21.00	77.00	77.10	-3.18	-0.05
KCYN0056	10/4/2023 9:41	55.90	44.10	0.00	0.00	126.20	125.80	-28.66	-29.17
KCYN0057	10/4/2023 9:51	55.60	44.40	0.00	0.00	129.50	129.50	-29.45	-29.44
KCYN0058	10/4/2023 10:02	51.50	42.00	0.00	6.50	128.70	129.30	-7.40	-7.40
KCYN0058	10/4/2023 10:02	51.50	42.00	0.00	6.50	128.70	129.30	-7.40	-7.40
KCYN0062	10/3/2023 8:16	49.80	40.30	0.20	9.70	128.90	128.00	-16.78	-10.52
KCYN0063	10/3/2023 8:24	53.60	42.80	0.00	3.60	117.70	118.00	-1.63	-2.34
KCYN0065	10/4/2023 8:42	55.90	44.10	0.00	0.00	99.70	100.80	-28.24	-28.23
KCYN0066	Offline for filing								
KCYN0070	10/3/2023 8:44	50.80	41.50	0.00	7.70	112.30	112.40	-14.45	-10.63
KCYN0071	10/3/2023 11:48	54.30	42.20	0.00	3.50	127.60	127.90	-38.48	-38.48
KCYN0072	10/3/2023 8:31	53.80	41.60	0.00	4.60	111.00	111.10	-5.79	-6.49
KCYN0074	10/3/2023 12:56	55.50	43.60	0.00	0.90	130.90	129.30	-39.36	-41.15
KCYN0075	10/4/2023 10:07	55.50	44.50	0.00	0.00	128.50	125.80	-17.76	-17.89
KCYN0076	10/2/2023 9:33	55.70	44.30	0.00	0.00	130.00	130.20	-33.06	-33.08
KCYN0078	10/4/2023 8:09	56.00	44.00	0.00	0.00	130.40	130.50	-29.67	-29.71
KCYN0082	10/4/2023 9:07	56.30	43.70	0.00	0.00	114.40	116.80	-1.05	-2.22
KCYN0084	10/4/2023 9:34	56.20	43.80	0.00	0.00	113.60	119.00	-0.62	-1.11
KCYN0086	10/4/2023 10:54	55.20	43.60	0.00	1.20	130.20	130.50	-22.01	-21.95
KCYN0087	10/4/2023 11:02	46.70	41.40	0.00	11.90	128.40	122.30	-11.87	-7.83
KCYN0088	10/3/2023 12:10	51.60	37.30	0.00	11.10	110.10	109.90	-24.73	-21.64
KCYN0089	10/2/2023 9:25	56.70	43.30	0.00	0.00	128.40	129.50	-7.66	-7.96
KCYN0090	10/3/2023 12:26	45.10	41.70	0.00	13.20	106.60	98.50	-40.17	-33.33
KCYN0091	10/3/2023 9:16	56.00	44.00	0.00	0.00	129.70	129.20	-14.53	-14.54
KCYN0092	10/3/2023 13:04	56.00	42.80	0.10	1.10	125.80	125.80	-29.39	-30.37
KCYN0093	10/3/2023 12:59	51.00	41.30	0.00	7.70	121.70	121.70	-13.94	-13.86
KCYN0094	10/3/2023 12:36	51.70	42.50	0.00	5.80	127.50	127.50	-22.40	-22.40
KCYN0095	10/3/2023 12:33	55.90	42.70	0.00	1.40	123.20	123.60	-37.74	-38.06
KCYN0097	10/3/2023 9:09	55.90	44.10	0.00	0.00	119.80	119.70	-32.76	-34.18
KCYN0098	10/3/2023 12:41	53.00	43.70	0.00	3.30	127.00	128.20	-9.43	-10.71
KCYN0099	10/3/2023 8:39	50.00	42.20	0.00	7.80	127.70	126.50	-11.49	-10.29
KCYN0101	10/3/2023 11:57	52.20	38.10	0.20	9.50	96.80	96.80	-0.79	-0.77
KCYN0102	10/3/2023 11:53	37.00	34.80	0.00	28.20	107.40	106.40	-2.44	-0.90
KCYN0103	10/3/2023 12:02	41.50	36.60	0.00	21.90	119.80	116.70	-9.58	-6.33
KCYN0105	10/2/2023 10:36	56.90	43.00	0.00	0.10	89.10	89.10	-39.62	-39.15
KCYN0118	10/2/2023 9:50	55.60	43.80	0.00	0.60	119.10	118.80	-33.01	-34.16
KCYN0119	10/2/2023 9:38	55.70	44.30	0.00	0.00	130.50	130.50	-3.00	-3.16
KCYN0121	10/2/2023 9:55	55.30	44.70	0.00	0.00	109.20	107.30	-34.43	-34.57
KCYN0122	10/2/2023 9:42	55.60	44.40	0.00	0.00	111.30	111.50	-33.16	-33.15
KCYN0123	10/4/2023 9:56	38.70	33.00	3.80	24.50	88.60	88.80	-1.64	-1.41
KCYN0124	10/4/2023 9:19	56.50	43.10	0.00	0.40	113.00	113.20	-2.28	-3.41
KCYN0125	10/4/2023 8:52	55.90	44.10	0.00	0.00	128.40	127.70	-21.03	-21.05
KCYN0126	10/4/2023 10:10	54.60	43.40	0.00	2.00	127.30	127.30	-16.40	-16.43

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - October 2, 3, 4, and 18, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0127	10/4/2023 9:47	55.10	43.10	0.00	1.80	121.70	125.20	-6.25	-10.60
KCYN0128	10/4/2023 10:49	53.90	43.10	0.00	3.00	129.10	129.30	-27.20	-27.20
KCYN0129	10/4/2023 11:17	55.70	42.40	0.00	1.90	114.10	114.10	-32.30	-31.68
KCYN0130	10/2/2023 10:45	54.80	37.70	0.00	7.50	112.10	112.10	-3.93	-3.95
KCYN0131	10/2/2023 10:39	56.00	44.00	0.00	0.00	116.90	117.00	-40.04	-40.05
KCYN0133	10/4/2023 8:05	55.40	43.50	0.00	1.10	117.70	117.80	-27.61	-27.58
KCYN0134	10/4/2023 8:13	55.90	44.10	0.00	0.00	95.50	95.90	-28.61	-28.61
KCYN0134	10/4/2023 8:13	55.90	44.10	0.00	0.00	95.50	95.90	-28.61	-28.61
KCYN0135	10/4/2023 8:16	54.10	44.40	0.00	1.50	128.20	128.20	-27.45	-27.10
KCYN0162	10/2/2023 9:03	57.30	42.50	0.20	0.00	60.20	57.80	-38.17	-37.87
KCYN0163	10/2/2023 8:57	57.20	42.50	0.00	0.30	84.10	86.80	-4.30	-5.84
KCYN0164	10/2/2023 9:08	57.50	42.10	0.30	0.10	71.30	71.20	-35.69	-35.67
KCYN0165	10/2/2023 9:12	50.80	40.70	0.00	8.50	118.30	118.00	-19.93	-15.80
KCYN0166	10/2/2023 11:01	53.30	42.40	0.00	4.30	129.90	130.20	-3.89	-4.45
KCYN0167	10/2/2023 10:57	57.70	42.30	0.00	0.00	118.00	118.00	-34.32	-34.38
KCYN0168	10/2/2023 10:52	54.00	42.50	0.00	3.50	124.90	124.90	-7.33	-7.30
KCYN0168	10/2/2023 10:54	54.00	42.40	0.00	3.60	118.40	125.00	-7.05	-8.29
KCYNLR04	10/4/2023 8:20	55.90	39.50	0.40	4.20	99.40	99.50	-10.16	-7.29
KCYNLR08	10/3/2023 8:08	0.10	0.20	20.90	78.80	63.70	63.70	-2.21	-1.70
KCYNLR08	10/18/2023 6:29	59.50	40.50	0.00	0.00	71.50	65.30	36.46	-34.51
KCYNLR08	10/18/2023 6:33	NSPS/EG Corrective Action Completed (CAC)							
KCYNLR08	10/18/2023 6:39	59.10	39.60	0.40	0.90	84.50	84.80	-6.76	-1.96
KCYNLR11	10/2/2023 8:33	58.50	41.50	0.00	0.00	56.90	56.70	-0.20	-0.19
KCYNLR11	10/4/2023 12:38	52.20	34.90	2.80	10.10	101.40	101.70	-0.40	-0.33

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of October 31, 2023, there are 85 vertical wells, 0 horizontal collector, and 3 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
Wellfield Monitoring Report - November 1, 3, 6, 7, 28, 29, and 30, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	11/6/2023 11:11	53.7	38.9	0.1	7.3	87.0	87.0	-15.1	-15.1
KCLC0109	11/6/2023 11:05	58.3	41.5	0.2	0.0	96.1	95.9	-36.0	-35.9
KCLC0110	11/6/2023 9:07	55.9	42.2	0.3	1.6	104.1	104.3	-39.1	-39.1
KCLC0111	11/6/2023 8:45	56.2	43.8	0.0	0.0	73.3	73.4	-38.5	-38.3
KCLC0112	11/6/2023 8:42	55.2	43.6	0.0	1.2	102.3	102.5	-34.6	-34.6
KCLC0139	11/3/2023 7:42	55.3	44.7	0.0	0.0	120.4	120.2	-21.4	-21.3
KCLC0140	11/3/2023 7:37	44.6	39.1	0.0	16.3	111.3	110.8	-11.8	-4.8
KCLC0141	11/3/2023 7:22	55.3	41.0	0.0	3.7	84.6	95.6	-0.5	-5.3
KCLC0142	11/3/2023 7:16	54.7	39.1	0.0	6.2	90.2	93.1	-0.2	-0.2
KCLC0143	11/3/2023 8:42	43.8	38.6	0.0	17.6	107.6	106.9	-1.2	-0.5
KCLC0143	11/7/2023 12:34	50.2	39.5	0.0	10.3	104.4	103.1	-0.4	-1.1
KCLC0145	11/3/2023 10:12	50.7	38.0	2.0	9.3	76.0	75.9	-20.4	-29.5
KCLC0147	11/3/2023 9:50	57.2	42.8	0.0	0.0	75.7	75.7	-32.8	-33.5
KCLC0149	11/3/2023 10:25	49.3	39.8	0.0	10.9	104.9	103.9	-8.8	-4.3
KCLC0151	11/3/2023 9:46	56.4	43.6	0.0	0.0	118.1	118.0	-27.2	-27.2
KCLC0152	11/3/2023 9:34	57.0	42.6	0.0	0.4	111.5	112.1	-4.8	-5.4
KCLC0153	11/3/2023 10:31	53.5	42.3	0.0	4.2	99.3	99.3	-4.3	-4.8
KCLC0154	11/3/2023 10:21	52.7	41.7	0.0	5.6	101.7	101.8	-2.4	-2.5
KCLC0155	11/3/2023 10:08	56.3	43.3	0.0	0.4	111.7	112.0	-6.2	-7.3
KCLC0156	11/3/2023 9:53	57.7	42.3	0.0	0.0	99.8	100.0	-16.6	-19.9
KCLC0157	11/3/2023 9:07	60.6	38.3	0.4	0.7	62.1	62.2	-19.1	-19.1
KCLC0158	11/3/2023 7:06	52.5	40.5	0.0	7.0	110.6	110.9	-4.5	-5.6
KCLC0158	11/28/2023 11:50	47.9	40.7	0.0	11.4	110.7	110.8	-6.3	-7.3
KCLC0159	11/3/2023 13:30	56.9	41.1	0.0	2.0	106.9	108.3	-2.2	-4.5
KCLC0160	11/3/2023 13:19	51.1	38.7	1.7	8.5	77.5	81.6	-37.4	-37.6
KCLC0161	11/3/2023 13:02	56.9	43.1	0.0	0.0	109.9	114.5	-3.6	-9.8
KCYN0014	11/6/2023 13:35	56.4	31.9	0.1	11.6	101.9	101.9	-3.0	-3.0
KCYN0027	11/1/2023 11:11	57.0	43.0	0.0	0.0	95.3	95.6	-5.8	-7.7
KCYN0048	11/6/2023 8:35	44.4	39.2	0.0	16.4	126.2	124.8	-2.3	-1.7
KCYN0051	11/3/2023 8:45	55.9	42.6	0.0	1.5	101.4	101.4	-17.6	-17.6
KCYN0051	11/7/2023 12:27	56.4	43.4	0.0	0.2	100.7	100.8	-13.8	-14.4
KCYN0054	11/3/2023 7:27	50.3	38.8	0.0	10.9	59.1	59.4	-1.1	-1.1
KCYN0054	11/28/2023 11:42	20.8	25.9	3.6	49.7	79.3	80.0	-0.1	-0.3
KCYN0056	11/3/2023 8:09	55.7	44.3	0.0	0.0	124.0	124.1	-25.1	-25.1
KCYN0057	11/3/2023 8:22	56.1	43.7	0.0	0.2	130.5	130.6	-25.4	-25.3
KCYN0057	11/7/2023 12:58	55.7	44.3	0.0	0.0	128.6	128.9	-20.7	-20.7
KCYN0058	11/3/2023 8:18	55.3	43.3	0.0	1.4	128.8	128.9	-6.3	-6.3
KCYN0058	11/7/2023 13:39	54.8	42.1	0.0	3.1	130.1	129.3	-5.1	-6.8
KCYN0058	11/28/2023 11:07	56.7	42.2	0.0	1.1	119.4	118.9	-9.0	-10.9
KCYN0062	11/1/2023 9:15	55.6	43.4	0.0	1.0	126.8	127.3	-8.9	-10.3
KCYN0063	11/1/2023 9:10	48.1	38.6	0.0	13.3	118.3	118.3	-2.6	-2.0
KCYN0065	11/3/2023 7:33	56.3	43.7	0.0	0.0	79.8	80.0	-24.1	-24.1
KCYN0066	11/27/2023 8:57	57.0	43.0	0.0	0.0	117.1	121.3	-17.0	-27.3
KCYN0070	11/1/2023 9:35	54.0	42.0	0.0	4.0	112.3	112.6	-10.7	-10.7
KCYN0071	11/1/2023 10:56	55.6	43.2	0.0	1.2	129.6	129.7	-38.4	-39.1
KCYN0072	11/1/2023 9:19	47.4	39.5	0.0	13.1	111.1	111.1	-7.5	-6.6
KCYN0074	11/1/2023 12:53	55.7	43.4	0.0	0.9	129.4	129.8	-38.3	-39.7
KCYN0075	11/3/2023 7:56	54.6	45.4	0.0	0.0	118.3	118.3	-16.5	-16.5
KCYN0075	11/7/2023 13:43	56.0	44.0	0.0	0.0	126.6	127.0	-9.6	-9.6
KCYN0076	11/21/2023 17:10	59.1	40.6	0.1	0.2	123.2	123.0	-11.8	-13.0
KCYN0078	11/1/2023 12:00	55.9	44.1	0.0	0.0	130.1	129.7	-24.8	-25.2
KCYN0082	11/6/2023 8:11	58.2	41.7	0.1	0.0	114.8	116.3	-3.8	-4.4
KCYN0082	11/7/2023 12:10	57.6	42.2	0.2	0.0	116.8	117.3	-5.2	-7.4
KCYN0082	11/28/2023 11:34	42.5	38.5	0.0	19.0	117.0	116.9	-9.0	-9.0
KCYN0084	11/3/2023 8:38	56.1	43.1	0.0	0.8	122.4	122.6	-2.0	-2.5
KCYN0084	11/7/2023 12:40	52.8	42.2	0.0	5.0	122.3	122.5	-2.2	-2.7
KCYN0084	11/28/2023 10:36	48.4	38.1	0.1	13.4	123.6	124.4	-4.1	-6.9
KCYN0086	11/3/2023 9:14	56.4	43.5	0.0	0.1	120.3	119.3	-19.6	-19.7
KCYN0087	11/3/2023 9:26	55.4	44.5	0.0	0.1	130.1	130.5	-3.5	-7.3
KCYN0088	11/1/2023 10:49	55.0	39.4	0.0	5.6	108.8	108.9	-13.8	-15.0
KCYN0089	11/21/2023 17:07	59.3	40.7	0.0	0.0	128.4	129.0	-0.9	-6.9
KCYN0090	11/1/2023 10:15	56.5	42.5	0.0	1.0	98.8	105.4	-20.6	-28.4
KCYN0090	11/1/2023 10:15	56.5	42.5	0.0	1.0	98.8	105.4	-20.6	-28.4
KCYN0091	11/1/2023 9:51	56.9	43.1	0.0	0.0	128.4	129.8	-13.0	-14.0
KCYN0091	11/1/2023 9:51	56.9	43.1	0.0	0.0	128.4	129.8	-13.0	-14.0
KCYN0092	11/1/2023 12:49	56.3	43.0	0.2	0.5	125.6	125.8	-28.8	-29.3
KCYN0093	11/1/2023 12:57	51.9	41.3	0.0	6.8	122.7	122.7	-16.9	-16.9
KCYN0094	11/1/2023 10:07	52.3	43.2	0.0	4.5	128.3	128.3	-24.0	-24.6
KCYN0095	11/1/2023 9:57	56.8	43.2	0.0	0.0	124.1	124.1	-38.4	-37.4
KCYN0097	11/1/2023 9:43	57.0	43.0	0.0	0.0	119.4	119.1	-35.4	-34.7
KCYN0098	11/1/2023 10:03	54.8	43.3	0.0	1.9	129.1	129.4	-12.1	-13.4
KCYN0099	11/1/2023 9:28	50.5	41.9	0.0	7.6	130.3	130.7	-10.1	-11.3
KCYN0101	11/1/2023 11:06	52.5	39.6	0.0	7.9	98.0	98.1	-0.6	-0.5
KCYN0102	11/1/2023 10:22	57.9	41.5	0.0	0.6	91.1	101.4	0.0	-0.2
KCYN0102	11/1/2023 10:24	58.1	41.5	0.0	0.4	103.6	103.8	-1.0	-1.0

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - November 1, 3, 6, 7, 28, 29, and 30, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0103	11/1/2023 11:00	57.3	42.0	0.0	0.7	113.3	116.5	-1.2	-3.3
KCYN0103	11/1/2023 11:01	57.4	41.5	0.0	1.1	117.4	117.4	-4.7	-4.7
KCYN0105	11/6/2023 8:48	56.8	43.2	0.1	-0.1	76.3	77.1	-38.4	-38.3
KCYN0118	11/3/2023 13:05	56.9	43.1	0.0	0.0	120.7	120.6	-32.0	-30.6
KCYN0119	11/3/2023 12:54	58.4	41.6	0.0	0.0	129.6	129.0	-2.4	-2.6
KCYN0121	11/3/2023 13:09	55.8	43.3	0.0	0.9	110.1	110.3	-33.9	-33.9
KCYN0122	11/3/2023 12:59	56.3	43.7	0.0	0.0	114.0	114.1	-33.2	-33.2
KCYN0123	11/3/2023 8:14	56.3	43.7	0.0	0.0	76.5	79.7	-0.3	-0.5
KCYN0123	11/28/2023 11:15	56.8	43.1	0.1	0.0	118.3	126.2	-2.6	-5.4
KCYN0124	11/3/2023 8:48	52.8	41.4	0.0	5.8	112.6	112.6	-3.6	-3.6
KCYN0124	11/7/2023 12:16	54.1	40.9	0.0	5.0	111.7	111.9	-3.0	-3.9
KCYN0124	11/28/2023 11:56	46.1	39.2	0.0	14.7	112.8	112.8	-5.7	-5.6
KCYN0125	11/3/2023 7:30	57.0	43.0	0.0	0.0	129.3	129.3	-18.0	-18.0
KCYN0126	11/3/2023 7:45	55.3	43.1	0.0	1.6	127.5	127.5	-15.2	-15.1
KCYN0127	11/3/2023 8:28	56.1	43.3	0.0	0.6	126.0	125.0	-18.7	-21.0
KCYN0127	11/7/2023 13:03	55.5	43.6	0.0	0.9	125.0	124.9	-15.8	-18.3
KCYN0128	11/3/2023 9:10	55.9	43.1	0.0	1.0	129.3	129.5	-24.8	-24.8
KCYN0129	11/3/2023 9:40	56.5	42.6	0.1	0.8	114.1	114.1	-32.8	-32.8
KCYN0130	11/6/2023 8:56	51.9	38.2	0.0	9.9	111.5	111.5	-4.4	-4.4
KCYN0131	11/6/2023 8:51	56.6	43.3	0.0	0.1	115.5	115.3	-39.2	-39.7
KCYN0133	11/1/2023 11:54	55.4	42.4	0.0	2.2	118.6	118.6	-22.2	-22.2
KCYN0134	11/1/2023 12:03	56.3	43.7	0.0	0.0	97.3	95.5	-20.7	-20.2
KCYN0135	11/1/2023 12:24	54.2	44.2	0.0	1.6	127.9	127.8	-23.4	-23.4
KCYN0162	11/3/2023 13:24	56.8	40.6	0.5	2.1	91.2	91.5	-37.8	-37.5
KCYN0163	11/3/2023 13:43	57.0	41.7	0.0	1.3	95.8	99.5	-3.0	-12.6
KCYN0164	11/3/2023 13:38	56.9	40.9	0.0	2.2	90.2	90.5	-36.7	-37.5
KCYN0165	11/3/2023 13:34	55.1	42.0	0.0	2.9	120.5	120.6	-9.9	-11.3
KCYN0166	11/6/2023 8:31	52.2	41.4	0.0	6.4	129.7	129.7	-5.2	-5.7
KCYN0167	11/6/2023 8:27	57.9	42.1	0.0	0.0	117.4	117.4	-33.6	-33.6
KCYN0168	11/6/2023 8:22	49.4	39.5	0.0	11.1	124.1	124.1	-12.9	-11.7
KCYN0169	11/29/2023 12:40	54.9	43.8	0.0	1.3	106.4	106.4	-1.6	-1.6
KCYN0169	11/30/2023 9:32	55.6	44.4	0.0	0.0	107.2	107.1	-2.3	-0.9
KCYN0170	11/29/2023 12:50	54.9	45.0	0.0	0.1	108.4	108.5	-1.5	-1.5
KCYN0170	11/30/2023 9:39	55.2	44.8	0.0	0.0	107.1	107.2	-2.9	-1.9
KCYN0171	11/29/2023 12:58	55.5	44.5	0.0	0.0	104.2	104.4	-1.4	-1.5
KCYN0171	11/30/2023 9:47	55.2	44.8	0.0	0.0	108.0	108.2	-4.0	-4.3
KCYN0172	11/29/2023 12:30	55.9	44.0	0.1	0.0	120.1	120.1	-1.6	-1.6
KCYN0172	11/30/2023 9:25	55.3	44.6	0.0	0.1	119.1	119.3	-2.5	-2.7
KCYNLR04	11/1/2023 12:41	58.6	41.4	0.0	0.0	100.0	100.0	-0.9	-5.1
KCYNLR08	11/1/2023 7:30	43.8	35.9	2.3	18.0	72.0	72.0	-48.1	-48.1
KCYNLR11	11/6/2023 11:09	53.3	37.9	0.6	8.2	76.9	76.9	-0.2	-0.2
KCYNLR12	11/29/2023 13:21	56.2	42.4	0.2	1.2	80.2	80.3	-1.5	-1.5
KCYNLR12	11/30/2023 9:55	50.4	41.3	0.7	7.6	81.9	80.9	-2.9	-1.4

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of November 30, 2023, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - December 3, 4, and 5, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	12/4/2023 7:34	51.4	38.9	0.0	9.7	75.2	74.3	-16.3	-21.2
KCLC0109	12/4/2023 7:16	63.0	37.0	0.0	0.0	92.1	92.4	-34.9	-34.9
KCLC0110	12/4/2023 7:13	55.1	44.2	0.0	0.7	105.5	105.5	-40.1	-39.7
KCLC0111	12/4/2023 8:07	57.2	42.0	0.3	0.5	54.0	54.0	-39.2	-39.6
KCLC0112	12/4/2023 8:10	57.3	42.6	0.0	0.1	92.5	91.9	-36.8	-36.2
KCLC0139	12/5/2023 7:44	55.8	44.2	0.0	0.0	119.1	119.1	-21.8	-21.8
KCLC0140	12/5/2023 7:47	47.8	41.0	0.0	11.2	111.7	111.7	-13.3	-13.3
KCLC0141	12/5/2023 8:11	26.5	31.3	0.0	42.2	98.7	98.3	-6.6	-2.8
KCLC0142	12/5/2023 8:23	18.4	28.7	0.0	52.9	90.8	91.2	-0.2	-0.2
KCLC0143	12/5/2023 7:02	30.9	32.0	0.0	37.1	107.0	106.5	-2.8	-1.6
KCLC0145	12/5/2023 12:39	54.5	40.3	0.6	4.6	83.8	80.7	-33.0	-32.8
KCLC0147	12/5/2023 10:50	56.8	41.9	0.0	1.3	72.9	72.9	-33.9	-34.2
KCLC0149	12/5/2023 12:55	57.0	43.0	0.0	0.0	93.5	94.7	-1.9	-3.3
KCLC0151	12/5/2023 10:47	54.7	43.3	0.0	2.0	118.4	118.4	-25.6	-25.6
KCLC0152	12/5/2023 10:44	47.2	39.1	0.0	13.7	112.7	112.4	-7.9	-7.3
KCLC0153	12/5/2023 12:27	52.2	40.3	0.0	7.5	99.0	99.1	-4.6	-4.8
KCLC0154	12/5/2023 12:51	49.2	38.1	0.0	12.7	102.1	101.7	-2.6	-1.9
KCLC0155	12/5/2023 12:42	55.1	41.7	0.0	3.2	112.3	112.4	-7.7	-8.6
KCLC0156	12/5/2023 10:53	57.8	41.9	0.0	0.3	100.3	100.3	-19.7	-22.8
KCLC0157	12/5/2023 13:06	45.7	36.3	3.1	14.9	73.8	73.9	-2.4	-2.3
KCLC0158	12/5/2023 8:06	38.6	37.4	0.0	24.0	112.4	112.1	-13.7	-7.8
KCLC0159	12/4/2023 8:31	58.7	41.3	0.0	0.0	103.2	104.1	-3.9	-3.9
KCLC0160	12/4/2023 8:48	58.4	39.5	0.3	1.8	50.1	50.1	-34.6	-35.2
KCLC0161	12/4/2023 8:39	48.3	39.0	0.0	12.7	113.5	113.7	-17.1	-17.1
KCYN0014	12/4/2023 7:37	52.2	32.7	0.0	15.1	91.3	91.5	-3.1	-3.1
KCYN0027	12/5/2023 9:35	58.1	41.2	0.0	0.7	91.5	92.7	-8.0	-10.5
KCYN0048	12/4/2023 9:32	45.3	38.4	0.0	16.3	123.3	123.2	-1.1	-1.1
KCYN0051	12/5/2023 6:59	56.6	41.0	0.0	2.4	96.5	96.5	-15.8	-16.6
KCYN0054	12/5/2023 8:00	31.1	33.5	3.5	31.9	73.0	73.1	-5.1	-5.1
KCYN0056	12/5/2023 7:36	56.3	43.7	0.0	0.0	122.6	122.8	-27.0	-26.9
KCYN0057	12/5/2023 7:13	52.2	43.2	0.0	4.6	123.6	123.6	-26.9	-26.9
KCYN0058	12/5/2023 7:19	48.7	41.8	0.0	9.5	130.2	130.0	-16.3	-16.2
KCYN0062	12/4/2023 14:36	55.2	40.5	0.1	4.2	126.9	127.1	-10.4	-11.3
KCYN0063	12/4/2023 14:42	52.3	40.2	0.0	7.5	117.3	117.4	-1.6	-1.8
KCYN0065	12/5/2023 7:51	55.4	44.2	0.0	0.4	73.1	71.6	-26.0	-25.9
KCYN0066	12/4/2023 7:48	57.7	42.2	0.1	0.0	127.6	127.5	-39.3	-40.9
KCYN0070	12/4/2023 14:57	53.0	39.4	0.0	7.6	111.9	111.9	-10.3	-11.8
KCYN0071	12/5/2023 9:50	52.7	42.3	0.0	5.0	129.3	129.4	-40.8	-42.3
KCYN0072	12/4/2023 14:46	54.0	39.9	0.0	6.1	110.9	111.1	-4.8	-5.6
KCYN0074	12/5/2023 9:18	55.3	44.7	0.0	0.0	130.3	130.5	-43.0	-42.4
KCYN0075	12/5/2023 7:24	55.7	44.3	0.0	0.0	118.9	119.8	-20.7	-20.7
KCYN0076	12/4/2023 9:01	56.8	43.1	0.0	0.1	127.9	127.8	-28.1	-27.4
KCYN0078	12/5/2023 9:01	57.8	41.8	0.0	0.4	128.3	128.7	-28.0	-28.0
KCYN0082	12/5/2023 8:02	29.3	32.2	0.0	38.5	117.1	117.5	-22.1	-11.4
KCYN0084	12/5/2023 7:06	33.1	33.5	0.0	33.4	124.5	124.2	-8.7	-4.6
KCYN0086	12/5/2023 10:29	55.4	41.9	0.0	2.7	128.4	128.4	-17.9	-17.9
KCYN0087	12/5/2023 8:35	47.4	40.4	0.3	11.9	128.6	128.4	-12.1	-17.0
KCYN0088	12/5/2023 10:02	52.4	37.9	0.0	9.7	109.3	109.3	-19.4	-20.8
KCYN0089	12/4/2023 9:19	61.5	27.9	1.3	9.3	121.4	121.7	-7.0	-7.0
KCYN0090	12/5/2023 9:55	48.6	40.3	0.0	11.1	101.5	100.9	-38.1	-36.3
KCYN0091	12/4/2023 15:16	57.5	42.5	0.0	0.0	130.5	130.7	-18.9	-18.9
KCYN0092	12/5/2023 9:21	56.1	43.9	0.0	0.0	125.3	125.3	-32.0	-32.1
KCYN0093	12/5/2023 9:15	45.8	39.9	0.0	14.3	122.4	122.3	-20.7	-17.5
KCYN0094	12/4/2023 15:28	57.4	42.6	0.0	0.0	126.5	126.6	-27.9	-28.5
KCYN0095	12/4/2023 15:33	57.3	42.7	0.0	0.0	123.8	123.9	-37.5	-36.9
KCYN0097	12/4/2023 15:05	58.0	41.8	0.0	0.2	118.1	118.3	-34.8	-34.8
KCYN0098	12/4/2023 15:23	57.3	42.7	0.0	0.0	129.1	128.2	-20.0	-20.0
KCYN0099	12/4/2023 14:52	52.6	40.6	0.0	6.8	130.5	130.4	-7.9	-9.1
KCYN0101	12/5/2023 9:39	51.9	39.1	0.0	9.0	90.9	93.0	-1.3	-4.6
KCYN0102	12/5/2023 9:46	37.4	35.1	0.0	27.5	105.2	104.9	-2.4	-1.7
KCYN0103	12/5/2023 9:44	42.9	37.0	0.0	20.1	119.4	119.3	-10.6	-9.2
KCYN0105	12/4/2023 8:00	57.2	39.5	0.9	2.4	73.7	73.6	-39.5	-39.4
KCYN0118	12/4/2023 8:55	56.2	41.7	0.1	2.0	117.1	117.3	-33.8	-33.2
KCYN0119	12/4/2023 8:58	57.3	42.2	0.0	0.5	129.8	129.9	-4.8	-4.8
KCYN0121	12/4/2023 8:51	57.9	42.0	0.1	0.0	100.5	100.8	-34.0	-34.0
KCYN0122	12/4/2023 8:36	57.0	43.0	0.0	0.0	104.0	103.8	-32.6	-31.9
KCYN0123	12/5/2023 7:28	56.3	43.6	0.1	0.0	128.8	129.3	-17.6	-17.5
KCYN0124	12/5/2023 6:56	35.5	30.3	0.2	34.0	112.4	112.3	-13.2	-8.0
KCYN0125	12/5/2023 7:54	55.4	44.6	0.0	0.0	130.7	129.5	-18.9	-18.9
KCYN0126	12/5/2023 7:40	52.5	42.9	0.0	4.6	124.3	124.4	-15.7	-15.7
KCYN0127	12/5/2023 7:11	46.8	41.1	0.0	12.1	127.3	128.5	-15.5	-14.5

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

Wellfield Monitoring Report - December 3, 4, and 5, 2023

Device Name	Date Time	CH_4 % by Volume	CO_2 % by Volume	O_2 % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	12/5/2023 10:25	55.9	41.4	0.0	2.7	130.8	130.6	-22.4	-22.4
KCYN0129	12/5/2023 10:40	56.1	42.1	0.0	1.8	114.2	114.3	-31.5	-31.6
KCYN0130	12/4/2023 7:53	48.4	35.3	0.0	16.3	110.1	109.9	-4.9	-4.7
KCYN0131	12/4/2023 8:03	57.7	42.2	0.1	0.0	109.7	109.9	-40.4	-39.9
KCYN0133	12/5/2023 8:46	54.3	42.2	0.0	3.5	115.0	115.3	-23.3	-23.3
KCYN0134	12/5/2023 9:05	57.3	42.7	0.0	0.0	86.3	86.5	-24.0	-24.6
KCYN0135	12/5/2023 9:08	55.3	43.6	0.0	1.1	127.1	127.2	-25.8	-25.8
KCYN0162	12/4/2023 8:16	56.7	40.6	0.8	1.9	55.4	55.4	-37.9	-38.2
KCYN0163	12/4/2023 8:14	55.3	40.0	0.0	4.7	72.3	81.1	-2.5	-12.4
KCYN0164	12/4/2023 8:22	57.8	40.6	0.7	0.9	60.9	61.2	-37.5	-37.4
KCYN0165	12/4/2023 8:27	53.6	38.8	0.9	6.7	118.5	119.8	-13.0	-14.5
KCYN0166	12/4/2023 9:28	45.6	37.2	0.0	17.2	129.6	129.4	-6.3	-5.0
KCYN0167	12/4/2023 9:25	58.7	40.8	0.0	0.5	117.6	117.6	-34.2	-34.2
KCYN0168	12/4/2023 9:21	54.5	40.6	0.1	4.8	114.9	114.6	-7.2	-7.2
KCYN0169	12/4/2023 7:00	56.8	43.2	0.0	0.0	106.6	106.6	-0.4	-0.5
KCYN0170	12/4/2023 7:04	56.2	43.8			105.7	105.6	-0.8	-1.0
KCYN0170	12/6/2023 6:56	58.7	41.3	0.0	0.0	105.7	105.7	-1.4	-1.3
KCYN0171	12/4/2023 7:12	55.4	42.9	0.0	1.7	108.6	108.8	-4.4	-4.6
KCYN0172	12/4/2023 6:52	59.2	40.8	0.0	0.0	117.6	117.6	-2.8	-3.1
KCYNLR04	12/5/2023 8:27	56.9	39.0	0.3	3.8	99.3	99.3	-8.4	-11.6
KCYNLR08	12/4/2023 14:31	45.1	31.0	2.8	21.1	80.3	78.9	-37.4	-35.3
KCYNLR11	12/4/2023 7:23	57.1	37.0	0.0	5.9	53.5	54.1	-0.3	-0.3
KCYNLR12	12/4/2023 6:41	56.1	42.1	0.0	1.8	80.0	80.8	-0.7	-1.2

*The following wells are approved to operate at a temperature HOV of 145°F: 37, 45, 51, 57, 58,65, 66, 71, 74, 76, 78, 86, 87, 89, 91, 98, 128 and 135. Wells 56, 75, 76, 87, and 89 are approved to operate at a temperature HOV of 156°F .

As of December 31, 2023, there are 89 vertical wells, 0 horizontal collector, and 4 LCR at KCRDF.

%= percent

in. w.c.= inches in water column

degrees F= degrees Fahrenheit

HOV = Higher Operating Value

APPENDIX J

BAAQMD CORRESPONDENCE

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

July 31, 2023

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

Re: Kirby Canyon Recycling & Disposal Facility
Facility Number A1812
Request for Limited Exemption (for construction activities) from Regulation 8, Rule 34 (Solid Waste Disposal Sites), Section 303 (Landfill Surface Requirements)

Dear Mr. Salalila:

This letter requests a limited exemption from the requirements of Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 303 (Landfill Surface Requirements) during landfill construction activities to be conducted from August 21, 2023, through November 30, 2023, at the Kirby Canyon Recycling & Disposal Facility (KCRDF) Landfill in San Jose, California. This notification is submitted pursuant to Regulation 8, Rule 34, Section 118, "Limited Exemptions for Construction Activities." The work consists of installation of new landfill gas (LFG) extraction wells and piping to maintain compliance with Regulation 8, Rule 34, and is to be performed during the period of August 21, 2023, through November 30, 2023.

The construction work will include excavation during drilling and installation of new LFG extraction wells; installation of new piping and laterals and repair of existing piping that will connect to existing LFG extraction wells and to the gas collection and control system (GCCS). The affected areas will then be backfilled. The work for this project includes installation, excavation and backfilling. This letter also transmits the BAAQMD-required construction plan (work plan) for the proposed work. The work plan contains information required pursuant to Regulation 8, Rule 34, Section 118.1 and AB-32 §95470(a)(1)(I) and (J) and includes:

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

No significant interruption of the current site LFG extraction and control operations is anticipated due to the work. The construction crew will mobilize to the site on or around August 21, 2023. We anticipate construction activities to conclude by November 30, 2023.

Unless notified otherwise, KCRDF will proceed in accordance with the attached work plan. We deem submittal of this plan as approval by the BAAQMD to take necessary action to ensure compliance with regulations, which may include taking additional LFG extraction wells offline for an extended period pursuant to Regulation 8, Rule 34, Section 118. Please do not hesitate to contact me at (408) 960-0770 with any questions.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Michael L. Winter
District Engineer

CC: Perry Ng, BAAQMD
Enrique Perez, KCRDF
Bill Louis, WM

BAAQMD RULE 8-34-118 CONSTRUCTION PLAN

Kirby Canyon Recycling & Disposal Facility

LFG EXTRACTION WELLS AND PIPING CONSTRUCTION WORK

August 21, 2023, through November 30, 2023

INTRODUCTION

This Construction Work Plan is submitted pursuant to Bay Area Air Quality Management District (BAAQMD) Regulation 8, Rule 34, Section 118: Limited Exemptions for Construction Activities. To obtain an exemption from BAAQMD Regulation 8, Rule 34, Section 303: Landfill Surface Requirements, the operator shall submit a construction plan in writing to the Air Pollution Control Officer (APCO) prior to beginning any construction activities.

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

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

ACTIONS BEING TAKEN

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

AFFECTED LANDFILL AREAS

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

AFFECTED LFG COMPONENTS

KCRDF will conduct landfill GCCS construction activities in compliance with the Rule 8-34-116 and 8-34-117, if applicable.

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

- Installation of up to eight new LFG wells and associated piping;
- Installation and tie-ins of piping at new wells;
- Any other additional piping that may be required at existing wells and pipes; and
- Cut and cap below grade surface penetrations that are not active

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

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

REASONS FOR ACTIONS

The proposed construction work is intended to:

- Drilling and installation of new collection wells.
- Install and connect new piping and laterals.
- Increase LFG collection efficiency to further reduce the potential for surface emissions.

CONSTRUCTION SCHEDULE

The anticipated construction period will be between August 21, 2023, through November 30, 2023, and is summarized in the table below:

Table 1 - Preliminary Construction Schedule

Task	Project Duration
Mobilize crew, equipment, and materials to site	Week 1
Drilling and installation of wells, repair and installation of piping, excavation and backfilling	Up to 15 weeks
Clean-up and demobilize crew and materials	Week 1

AIR QUALITY MITIGATION MEASURES

Emission of raw LFG will be minimized during construction. We anticipate minimal interruption of the overall site LFG extraction and control operations during the work. Installation of laterals and piping is independent of ongoing operations of the existing GCCS. Air quality mitigation will be provided during the installation and connection of piping to existing GCCS piping network. These mitigation measures are presented below and are designed to meet both the requirements of 8-34 Section 118 and §95470(a)(1)(I).

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

- Drilling for installation of LFG wells;
- Installation of new LFG wells, pipes and repairs of existing pipes;
- Excavation and backfill of pipe trenches; and
- Connection of new wells and laterals to existing piping and GCCS

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

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

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

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

RECORDKEEPING

The following records will be retained during the project:

- Construction start and end dates, projected and actual installation dates, and projected shut down times for individual gas collection system components.
- GCCS downtime and individual well shutdown times will be documented in accordance with the KCRDF's Startup, Shutdown, and Malfunction (SSM) Plan.
- Mitigation measures taken to minimize methane emissions and other potential air quality impacts will be documented.

Attachments: Figure 1 – Gas Collection and Control System layout

Proposed Construction Area

EXISTING FLARE

LCRS-10 LCRS-11 LCRS-4 LCRS-8

LEGEND

- 1400 — EXISTING 10' CONTOUR
- 12" — EXISTING ABOVEGROUND PIPING
- 12" — EXISTING BELOWGROUND PIPING
- EXISTING LEACHATE COLLECTION AND REMOVAL SYSTEM
- EXISTING HORIZONTAL COLLECTOR
- EW-3 — EXISTING LFG EXTRACTION WELL
- LC-108 — EXISTING LOCAL CONTROL WELL
- EXISTING REMOTE WELLHEAD
- H6 — EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING CONTROL VALVE
- EXISTING BLIND FLANGE
- EXISTING FLANGE CONNECTION
- EXISTING REDUCER FITTING
- EXISTING ROAD CROSSING
- RISER — EXISTING RISER
- EXISTING CAP ON EXISTING PIPE
- EW-4X — 2022 GCCS IMPROVEMENTS

N

0 200 400
SCALE IN FEET

NOTES:

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: JANUARY 26, 2023.
2. SUPPLEMENTAL 2016 GCCS IMPROVEMENTS AS-BUILT PIPING PER FIELD MARK-UP DRAWING PROVIDED BY WM ON JULY 19, 2017. WELL LOCATIONS PER RECORD DRAWINGS WELL SCHEDULE DATED: JULY 13, 2016.
3. 2017 GCCS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: OCTOBER 11, 2017
4. 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 19, 2019 AND DECEMBER 30, 2019
5. SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM DATED: JANUARY 27 AND 30, 2020, AND BY SCS ENGINEERS DATED: FEBRUARY 4, 2020.
6. 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.
8. 2021 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 4, 2021.

ISSUED FOR CONSTRUCTION

WASTE MANAGEMENT

This drawing represents intellectual property of Tetra Tech. Any modification to the original drawing other than those authorized by the original preparer and the work is considered void. Tetra Tech will not be held liable for any changes made to this document without express written consent of the originator.

REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY

DATE OF ISSUE 06/14/2023
DRAWN BY DAA
DESIGNED BY EC
CHECKED BY AMN
APPROVED BY

TETRA TECH

ALL PROFESSIONAL ENGINEERING WORK IS PERFORMED BY DULY LICENSED PROFESSIONAL ENGINEERS UNDER THE APPROPRIATE STATE REGISTERED PROFESSIONAL ENTITY.

KIRBY CANYON RECYCLING
AND DISPOSAL FACILITY
SAN JOSE, CALIFORNIA
2023 GCCS IMPROVEMENTS

AS-BUILT SITE PLAN

SHEET NO. 1

PROJECT NO. 230035

File: \\tt-local\cwg\619\PROJECTS\KIRBY CANYON\230035 - 2023 GCCS IMPROVEMENTS\Project Drawings\Kirby Canyon_2023 GCCS Design_Draft_06.22.23.dwg Layout: S1 User: LIZ.MOORE1 Jun 23, 2023 - 9:49am

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

August 17, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812, Section I.F Title V, 10 and 30-Day written report

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") 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 KCRDF.

A breakdown report was submitted on August 14, 2023, at ~ 8:00 PM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on August 14, 2023, at ~5:12 PM during PG&E unplanned power outage caused due to a device-level outage. The standby emergency generator was started during the power outage event on August 14, 2023, at around ~6:36 PM and the flare was online on August 14, 2023, around ~6:40 PM (see Attachment A for flare data). Although KCRDF 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the August 14, 2023, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on July 14, 2023, and was assigned RCA numbers 08U00 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 08U00 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

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

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Jessica K Jones
Area Director Disposal Operations
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form -Number 08U00

Attachment A
KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

Flare A12 Data

		Flare F		Flare SCFM	
Date	**Time**	**MIN**	**MAX**	**MIN**	**MAX**
2023/08/14	16:30:00	1544	1565	1949	1988
2023/08/14	16:32:00	1544	1556	1947	1985
2023/08/14	16:34:00	1542	1562	1949	1991
2023/08/14	16:36:00	1541	1560	1949	1993
2023/08/14	16:38:00	1545	1557	1948	1993
2023/08/14	16:40:00	1545	1561	1953	1988
2023/08/14	16:42:00	1545	1553	1954	1988
2023/08/14	16:44:00	1541	1567	1950	1990
2023/08/14	16:46:00	1537	1562	1955	1991
2023/08/14	16:48:00	1537	1566	1957	1991
2023/08/14	16:50:00	1539	1564	1953	1996
2023/08/14	16:52:00	1540	1562	1952	1991
2023/08/14	16:54:00	1541	1563	1950	1986
2023/08/14	16:56:00	1544	1558	1953	1986
2023/08/14	16:58:00	1541	1561	1955	1990
2023/08/14	17:00:00	1546	1557	1960	1995
2023/08/14	17:02:00	1545	1564	1956	1987
2023/08/14	17:04:00	1541	1565	1950	1995
2023/08/14	17:06:00	1538	1565	1952	1985
2023/08/14	17:08:00	1540	1564	1953	1991
2023/08/14	17:10:00	1539	1566	1955	1993
2023/08/14	17:12:00				
2023/08/14	17:14:00				
2023/08/14	17:16:00				
2023/08/14	17:18:00				
2023/08/14	17:20:00				
2023/08/14	17:22:00				
2023/08/14	17:24:00				
2023/08/14	17:26:00				
2023/08/14	17:28:00				
2023/08/14	17:30:00				
2023/08/14	17:32:00				
2023/08/14	17:34:00				
2023/08/14	17:36:00				
2023/08/14	17:38:00				
2023/08/14	17:40:00				
2023/08/14	17:42:00				

2023/08/14	17:44:00				
2023/08/14	17:46:00				
2023/08/14	17:48:00				
2023/08/14	17:50:00				
2023/08/14	17:52:00				
2023/08/14	17:54:00				
2023/08/14	17:56:00				
2023/08/14	17:58:00				
2023/08/14	18:00:00				
2023/08/14	18:02:00				
2023/08/14	18:04:00				
2023/08/14	18:06:00				
2023/08/14	18:08:00				
2023/08/14	18:10:00				
2023/08/14	18:12:00				
2023/08/14	18:14:00				
2023/08/14	18:16:00				
2023/08/14	18:18:00				
2023/08/14	18:20:00				
2023/08/14	18:22:00				
2023/08/14	18:24:00				
2023/08/14	18:26:00				
2023/08/14	18:28:00				
2023/08/14	18:30:00				
2023/08/14	18:32:00				
2023/08/14	18:34:00				
2023/08/14	18:36:00	103	103	-410	84
2023/08/14	18:38:00	103	103	-5	-4
2023/08/14	18:40:00	103	785	-4	4090
2023/08/14	18:42:00	785	1475	2056	2353
2023/08/14	18:44:00	1475	1582	2128	2284
2023/08/14	18:46:00	1541	1579	2182	2258
2023/08/14	18:48:00	1541	1560	2169	2218
2023/08/14	18:50:00	1542	1556	2154	2198
2023/08/14	18:52:00	1541	1563	2132	2188
2023/08/14	18:54:00	1543	1560	2135	2185
2023/08/14	18:56:00	1548	1556	2125	2168
2023/08/14	18:58:00	1358	1558	29	2163
2023/08/14	19:00:00	1057	1358	-6	29
2023/08/14	19:02:00	869	1057	-6	-5
2023/08/14	19:04:00	741	869	-6	16
2023/08/14	19:06:00	643	741	-6	15

2023/08/14	19:08:00	570	643	-6	-5
2023/08/14	19:10:00	508	570	-6	-5
2023/08/14	19:12:00	448	508	-6	14
2023/08/14	19:14:00	385	448	-6	-5
2023/08/14	19:16:00	327	385	-6	-5
2023/08/14	19:18:00	282	327	-6	-5
2023/08/14	19:20:00	258	337	-6	3485
2023/08/14	19:22:00	337	1237	2218	3460
2023/08/14	19:24:00	1237	1636	2185	2265
2023/08/14	19:26:00	1552	1630	2175	2261
2023/08/14	19:28:00	1541	1565	2159	2216
2023/08/14	19:30:00	1549	1563	2144	2198
2023/08/14	19:32:00	1543	1555	2140	2198
2023/08/14	19:34:00	1546	1561	2123	2180
2023/08/14	19:36:00	1546	1558	2128	2164
2023/08/14	19:38:00	1544	1558	2110	2164
2023/08/14	19:40:00	1541	1555	2102	2153
2023/08/14	19:42:00	1544	1560	2102	2159
2023/08/14	19:44:00	1546	1556	2099	2140
2023/08/14	19:46:00	1548	1556	2097	2138
2023/08/14	19:48:00	1546	1559	2082	2131
2023/08/14	19:50:00	1546	1562	2089	2135
2023/08/14	19:52:00	1544	1557	2069	2132
2023/08/14	19:54:00	1545	1561	2080	2126
2023/08/14	19:56:00	1544	1556	2067	2117
2023/08/14	19:58:00	1545	1560	2064	2117
2023/08/14	20:00:00	1544	1564	2064	2122
2023/08/14	20:02:00	1543	1561	2070	2117
2023/08/14	20:04:00	1545	1555	2071	2105
2023/08/14	20:06:00	1546	1560	2056	2110
2023/08/14	20:08:00	1548	1557	2053	2098
2023/08/14	20:10:00	1211	1555	-6	2092
2023/08/14	20:12:00	971	1211	-6	16
2023/08/14	20:14:00	814	971	-6	-5
2023/08/14	20:16:00	703	814	-6	-5
2023/08/14	20:18:00	618	703	-5	-5
2023/08/14	20:20:00	551	618	-5	-5
2023/08/14	20:22:00	496	551	-5	-5
2023/08/14	20:24:00	453	496	-5	-5
2023/08/14	20:26:00	414	453	-5	-3
2023/08/14	20:28:00	382	414	-5	-5
2023/08/14	20:30:00	354	382	-5	17

2023/08/14	20:32:00	330	355	-5	27
2023/08/14	20:34:00	308	330	-5	28
2023/08/14	20:36:00	284	308	-5	32
2023/08/14	20:38:00	265	285	-5	23
2023/08/14	20:40:00	245	265	-5	33
2023/08/14	20:42:00	229	246	17	32
2023/08/14	20:44:00	216	229	-5	35
2023/08/14	20:46:00	207	241	20	2690
2023/08/14	20:48:00	241	830	2211	3517
2023/08/14	20:50:00	830	1319	149	2243
2023/08/14	20:52:00	956	1308	36	149
2023/08/14	20:54:00	702	956	-5	50
2023/08/14	20:56:00	550	702	-5	22
2023/08/14	20:58:00	441	550	17	23
2023/08/14	21:00:00	359	441	-5	23
2023/08/14	21:02:00				
2023/08/14	21:04:00	257	275	-392	87
2023/08/14	21:06:00	222	257	-5	22
2023/08/14	21:08:00	214	796	-5	3615
2023/08/14	21:10:00	796	1380	2192	2689
2023/08/14	21:12:00	1380	1526	2180	2261
2023/08/14	21:14:00	1526	1551	2160	2258
2023/08/14	21:16:00	1544	1553	2134	2196
2023/08/14	21:18:00	1546	1555	2134	2178
2023/08/14	21:20:00	1544	1555	2112	2157
2023/08/14	21:22:00	1548	1558	2094	2150
2023/08/14	21:24:00	1546	1558	2076	2145
2023/08/14	21:26:00	1543	1564	2076	2133
2023/08/14	21:28:00	1543	1554	2086	2121
2023/08/14	21:30:00	1546	1562	2071	2120
2023/08/14	21:32:00	1544	1559	2054	2104
2023/08/14	21:34:00	1543	1556	2056	2097
2023/08/14	21:36:00	1546	1555	2053	2089
2023/08/14	21:38:00	1544	1563	2043	2090
2023/08/14	21:40:00	1542	1562	2047	2086
2023/08/14	21:42:00	1544	1559	2039	2084
2023/08/14	21:44:00	1546	1555	2029	2076
2023/08/14	21:46:00	1547	1562	2019	2074
2023/08/14	21:48:00	1547	1563	2023	2066
2023/08/14	21:50:00	1540	1561	2022	2063

Attachment B
Copy of KCRDF RCA Form -Number 08U00

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

August 14, 2023 (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
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on August 14, 2023, ~ 4:45 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on August 14, 2023, around ~8:00 PM.

Although KCRDF 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 KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF 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 August 14, 2023, the emergency generator was started and GCCS was back online at ~ 6:05 PM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. [X] **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	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	8/14/23 at~ 4:45 PM	Clear Time	8/14/23 at~6:05 PM
Monitor/device type(s)	[ ] ▶CEM [ ] ▶GLM [ ] ▶Parametric [ ] ▶PRD [ ] ▶Non-monitor		
Monitor description(s)			

Parameter(s) exceeded or not functioning due to inoperation

[ ] ▶NO_x [ ] ▶SO_2 [ ] ▶CO [ ] ▶CO_2 [ ] ▶H_2S [ ] ▶TRS [ ] ▶NH_3
[ ] ▶O_2 [ ] ▶H_2O [ ] ▶Opacity [ ] ▶Lead [ ] ▶Gauge Pressure [ ] ▶Flow
[ ] ▶Hydrocarbon Breakthrough (VOC) [ ] ▶Temperature [ ] ▶Wind Speed
[ ] ▶Wind Direction [ ] ▶Steam [X] ▶Other (describe) Power outage

Unit(s) of Measurement

[ ] ▶ppm [ ] ▶ppb [ ] ▶min/hr > 20% [ ] ▶inches H_2O [ ] ▶mmHg
[ ] ▶psig [ ] ▶pH [ ] ▶^{0}Fahrenheit [X] ▶Other (describe)

Event Description:

This breakdown report is being submitted on 8/14/2023 at ~ 8:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential 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 8/14/2023.

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
Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 8.14.2023
Date: Tuesday, August 15, 2023 8:19:13 AM

08U00

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, August 14, 2023 7:54 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Colline, Christian <CColline@wm.com>
Subject: KCRDF A1812-RCA for PG&E power outage on 8.14.2023

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 8.14.2023, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

August 17, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,
Request for Breakdown Relief RCA Number 08U00
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E unplanned power outage event on August 14, 2023.

A breakdown report (Per Regulation 1, Section 431) was submitted on August 15, 2023, at ~8:00 PM by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down on August 14, 2023, at ~5:12 PM during PG&E unplanned power outage caused due to a device-level outage. The standby emergency generator was started on August 14, 2023, around ~6:36 PM during the power outage event and flare was back online on August 14, 2023, at around ~6:40 PM (see Attachment A for flare data).Although KCRDF 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the August 14, 2023, PG&E power outage event via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on August 14, 2023 and was assigned RCA number 08U00 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA 08U00 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

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

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Jessica K Jones
Area Director Disposal Operations
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form Number 08U00

Attachment A
KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

Flare A12 Data

		Flare F		Flare SCFM	
Date	**Time**	**MIN**	**MAX**	**MIN**	**MAX**
2023/08/14	16:30:00	1544	1565	1949	1988
2023/08/14	16:32:00	1544	1556	1947	1985
2023/08/14	16:34:00	1542	1562	1949	1991
2023/08/14	16:36:00	1541	1560	1949	1993
2023/08/14	16:38:00	1545	1557	1948	1993
2023/08/14	16:40:00	1545	1561	1953	1988
2023/08/14	16:42:00	1545	1553	1954	1988
2023/08/14	16:44:00	1541	1567	1950	1990
2023/08/14	16:46:00	1537	1562	1955	1991
2023/08/14	16:48:00	1537	1566	1957	1991
2023/08/14	16:50:00	1539	1564	1953	1996
2023/08/14	16:52:00	1540	1562	1952	1991
2023/08/14	16:54:00	1541	1563	1950	1986
2023/08/14	16:56:00	1544	1558	1953	1986
2023/08/14	16:58:00	1541	1561	1955	1990
2023/08/14	17:00:00	1546	1557	1960	1995
2023/08/14	17:02:00	1545	1564	1956	1987
2023/08/14	17:04:00	1541	1565	1950	1995
2023/08/14	17:06:00	1538	1565	1952	1985
2023/08/14	17:08:00	1540	1564	1953	1991
2023/08/14	17:10:00	1539	1566	1955	1993
2023/08/14	17:12:00				
2023/08/14	17:14:00				
2023/08/14	17:16:00				
2023/08/14	17:18:00				
2023/08/14	17:20:00				
2023/08/14	17:22:00				
2023/08/14	17:24:00				
2023/08/14	17:26:00				
2023/08/14	17:28:00				
2023/08/14	17:30:00				
2023/08/14	17:32:00				
2023/08/14	17:34:00				
2023/08/14	17:36:00				
2023/08/14	17:38:00				
2023/08/14	17:40:00				
2023/08/14	17:42:00				

2023/08/14	17:44:00				
2023/08/14	17:46:00				
2023/08/14	17:48:00				
2023/08/14	17:50:00				
2023/08/14	17:52:00				
2023/08/14	17:54:00				
2023/08/14	17:56:00				
2023/08/14	17:58:00				
2023/08/14	18:00:00				
2023/08/14	18:02:00				
2023/08/14	18:04:00				
2023/08/14	18:06:00				
2023/08/14	18:08:00				
2023/08/14	18:10:00				
2023/08/14	18:12:00				
2023/08/14	18:14:00				
2023/08/14	18:16:00				
2023/08/14	18:18:00				
2023/08/14	18:20:00				
2023/08/14	18:22:00				
2023/08/14	18:24:00				
2023/08/14	18:26:00				
2023/08/14	18:28:00				
2023/08/14	18:30:00				
2023/08/14	18:32:00				
2023/08/14	18:34:00				
2023/08/14	18:36:00	103	103	-410	84
2023/08/14	18:38:00	103	103	-5	-4
2023/08/14	18:40:00	103	785	-4	4090
2023/08/14	18:42:00	785	1475	2056	2353
2023/08/14	18:44:00	1475	1582	2128	2284
2023/08/14	18:46:00	1541	1579	2182	2258
2023/08/14	18:48:00	1541	1560	2169	2218
2023/08/14	18:50:00	1542	1556	2154	2198
2023/08/14	18:52:00	1541	1563	2132	2188
2023/08/14	18:54:00	1543	1560	2135	2185
2023/08/14	18:56:00	1548	1556	2125	2168
2023/08/14	18:58:00	1358	1558	29	2163
2023/08/14	19:00:00	1057	1358	-6	29
2023/08/14	19:02:00	869	1057	-6	-5
2023/08/14	19:04:00	741	869	-6	16
2023/08/14	19:06:00	643	741	-6	15

2023/08/14	19:08:00	570	643	-6	-5
2023/08/14	19:10:00	508	570	-6	-5
2023/08/14	19:12:00	448	508	-6	14
2023/08/14	19:14:00	385	448	-6	-5
2023/08/14	19:16:00	327	385	-6	-5
2023/08/14	19:18:00	282	327	-6	-5
2023/08/14	19:20:00	258	337	-6	3485
2023/08/14	19:22:00	337	1237	2218	3460
2023/08/14	19:24:00	1237	1636	2185	2265
2023/08/14	19:26:00	1552	1630	2175	2261
2023/08/14	19:28:00	1541	1565	2159	2216
2023/08/14	19:30:00	1549	1563	2144	2198
2023/08/14	19:32:00	1543	1555	2140	2198
2023/08/14	19:34:00	1546	1561	2123	2180
2023/08/14	19:36:00	1546	1558	2128	2164
2023/08/14	19:38:00	1544	1558	2110	2164
2023/08/14	19:40:00	1541	1555	2102	2153
2023/08/14	19:42:00	1544	1560	2102	2159
2023/08/14	19:44:00	1546	1556	2099	2140
2023/08/14	19:46:00	1548	1556	2097	2138
2023/08/14	19:48:00	1546	1559	2082	2131
2023/08/14	19:50:00	1546	1562	2089	2135
2023/08/14	19:52:00	1544	1557	2069	2132
2023/08/14	19:54:00	1545	1561	2080	2126
2023/08/14	19:56:00	1544	1556	2067	2117
2023/08/14	19:58:00	1545	1560	2064	2117
2023/08/14	20:00:00	1544	1564	2064	2122
2023/08/14	20:02:00	1543	1561	2070	2117
2023/08/14	20:04:00	1545	1555	2071	2105
2023/08/14	20:06:00	1546	1560	2056	2110
2023/08/14	20:08:00	1548	1557	2053	2098
2023/08/14	20:10:00	1211	1555	-6	2092
2023/08/14	20:12:00	971	1211	-6	16
2023/08/14	20:14:00	814	971	-6	-5
2023/08/14	20:16:00	703	814	-6	-5
2023/08/14	20:18:00	618	703	-5	-5
2023/08/14	20:20:00	551	618	-5	-5
2023/08/14	20:22:00	496	551	-5	-5
2023/08/14	20:24:00	453	496	-5	-5
2023/08/14	20:26:00	414	453	-5	-3
2023/08/14	20:28:00	382	414	-5	-5
2023/08/14	20:30:00	354	382	-5	17

2023/08/14	20:32:00	330	355	-5	27
2023/08/14	20:34:00	308	330	-5	28
2023/08/14	20:36:00	284	308	-5	32
2023/08/14	20:38:00	265	285	-5	23
2023/08/14	20:40:00	245	265	-5	33
2023/08/14	20:42:00	229	246	17	32
2023/08/14	20:44:00	216	229	-5	35
2023/08/14	20:46:00	207	241	20	2690
2023/08/14	20:48:00	241	830	2211	3517
2023/08/14	20:50:00	830	1319	149	2243
2023/08/14	20:52:00	956	1308	36	149
2023/08/14	20:54:00	702	956	-5	50
2023/08/14	20:56:00	550	702	-5	22
2023/08/14	20:58:00	441	550	17	23
2023/08/14	21:00:00	359	441	-5	23
2023/08/14	21:02:00				
2023/08/14	21:04:00	257	275	-392	87
2023/08/14	21:06:00	222	257	-5	22
2023/08/14	21:08:00	214	796	-5	3615
2023/08/14	21:10:00	796	1380	2192	2689
2023/08/14	21:12:00	1380	1526	2180	2261
2023/08/14	21:14:00	1526	1551	2160	2258
2023/08/14	21:16:00	1544	1553	2134	2196
2023/08/14	21:18:00	1546	1555	2134	2178
2023/08/14	21:20:00	1544	1555	2112	2157
2023/08/14	21:22:00	1548	1558	2094	2150
2023/08/14	21:24:00	1546	1558	2076	2145
2023/08/14	21:26:00	1543	1564	2076	2133
2023/08/14	21:28:00	1543	1554	2086	2121
2023/08/14	21:30:00	1546	1562	2071	2120
2023/08/14	21:32:00	1544	1559	2054	2104
2023/08/14	21:34:00	1543	1556	2056	2097
2023/08/14	21:36:00	1546	1555	2053	2089
2023/08/14	21:38:00	1544	1563	2043	2090
2023/08/14	21:40:00	1542	1562	2047	2086
2023/08/14	21:42:00	1544	1559	2039	2084
2023/08/14	21:44:00	1546	1555	2029	2076
2023/08/14	21:46:00	1547	1562	2019	2074
2023/08/14	21:48:00	1547	1563	2023	2066
2023/08/14	21:50:00	1540	1561	2022	2063

Attachment B
Copy of KCRDF RCA Form Number 08U00

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

August 14, 2023 (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
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on August 14, 2023, ~ 4:45 PM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on August 14, 2023, around ~8:00 PM.

Although KCRDF 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 KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF 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 August 14, 2023, the emergency generator was started and GCCS was back online at ~ 6:05 PM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. [X] **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	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	8/14/23 at~ 4:45 PM	Clear Time	8/14/23 at~6:05 PM
Monitor/device type(s)	[ ] ▶CEM [ ] ▶GLM [ ] ▶Parametric [ ] ▶PRD [ ] ▶Non-monitor		
Monitor description(s)			

Parameter(s) exceeded or not functioning due to inoperation

[ ] ▶NO_x [ ] ▶SO_2 [ ] ▶CO [ ] ▶CO_2 [ ] ▶H_2S [ ] ▶TRS [ ] ▶NH_3
[ ] ▶O_2 [ ] ▶H_2O [ ] ▶Opacity [ ] ▶Lead [ ] ▶Gauge Pressure [ ] ▶Flow
[ ] ▶Hydrocarbon Breakthrough (VOC) [ ] ▶Temperature [ ] ▶Wind Speed
[ ] ▶Wind Direction [ ] ▶Steam [X] ▶Other (describe) Power outage

Unit(s) of Measurement

[ ] ▶ppm [ ] ▶ppb [ ] ▶min/hr > 20% [ ] ▶inches H_2O [ ] ▶mmHg
[ ] ▶psig [ ] ▶pH [ ] ▶^{0}Fahrenheit [X] ▶Other (describe)

Event Description:

This breakdown report is being submitted on 8/14/2023 at ~ 8:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential 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 8/14/2023.

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
Subject: [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 8.14.2023
Date: Tuesday, August 15, 2023 8:19:13 AM

08U00

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Monday, August 14, 2023 7:54 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Colline, Christian <CColline@wm.com>
Subject: KCRDF A1812-RCA for PG&E power outage on 8.14.2023

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 8.14.2023, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

October 3, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812, Section I.F Title V, 10 and 30-Day written report

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") 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 KCRDF.

A breakdown report was submitted on September 27, 2023, at ~ 1:00 PM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on September 27, 2023, at ~11:02 AM during PG&E unplanned power outage caused due to a device-level outage. The standby emergency generator was started during the power outage event on September 27, 2023, at around ~11:40 AM and the flare was online on September 27, 2023, around ~11:44 AM (see Attachment A for flare data). Although KCRDF 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the September 27, 2023, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on September 27, 2023, and was assigned RCA numbers 08V07 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 08V07 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

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

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form -Number 08V07

Attachment A
KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

Flare A12

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2023/09/27	10:00:00	1548	1558	1671	1710
2023/09/27	10:02:00	1548	1554	1675	1717
2023/09/27	10:04:00	1551	1561	1677	1717
2023/09/27	10:06:00	1542	1561	1661	1708
2023/09/27	10:08:00	1542	1561	1666	1712
2023/09/27	10:10:00	1545	1562	1680	1710
2023/09/27	10:12:00	1541	1560	1677	1710
2023/09/27	10:14:00	1544	1561	1674	1705
2023/09/27	10:16:00	1543	1558	1670	1708
2023/09/27	10:18:00	1541	1558	1671	1708
2023/09/27	10:20:00	1542	1562	1662	1705
2023/09/27	10:22:00	1544	1559	1677	1727
2023/09/27	10:24:00	1548	1554	1667	1715
2023/09/27	10:26:00	1549	1556	1675	1717
2023/09/27	10:28:00	1546	1556	1680	1708
2023/09/27	10:30:00	1547	1562	1679	1712
2023/09/27	10:32:00	1544	1565	1680	1711
2023/09/27	10:34:00	1545	1557	1679	1715
2023/09/27	10:36:00	1546	1565	1679	1718
2023/09/27	10:38:00	1541	1563	1677	1715
2023/09/27	10:40:00	1541	1562	1669	1715
2023/09/27	10:42:00	1545	1557	1675	1721
2023/09/27	10:44:00	1552	1559	1672	1713
2023/09/27	10:46:00	1547	1554	1675	1710
2023/09/27	10:48:00	1546	1554	1672	1723
2023/09/27	10:50:00	1546	1559	1677	1712
2023/09/27	10:52:00	1545	1552	1684	1717
2023/09/27	10:54:00	1545	1558	1670	1717
2023/09/27	10:56:00	1542	1562	1677	1718
2023/09/27	10:58:00	1540	1565	1674	1716
2023/09/27	11:00:00	1540	1562	1664	1717
2023/09/27	11:02:00				
2023/09/27	11:04:00				
2023/09/27	11:06:00				
2023/09/27	11:08:00				
2023/09/27	11:10:00				
2023/09/27	11:12:00				
2023/09/27	11:14:00				
2023/09/27	11:16:00				
2023/09/27	11:18:00				
2023/09/27	11:20:00				
2023/09/27	11:22:00				
2023/09/27	11:24:00				
2023/09/27	11:26:00				

2023/09/27	11:28:00				
2023/09/27	11:30:00				
2023/09/27	11:32:00				
2023/09/27	11:34:00				
2023/09/27	11:36:00				
2023/09/27	11:38:00				
2023/09/27	11:40:00	120	122	-393	86
2023/09/27	11:42:00	115	120	-4	-3
2023/09/27	11:44:00	114	697	-418	4836
2023/09/27	11:46:00	697	1381	1855	2082
2023/09/27	11:48:00	1381	1531	1862	1934
2023/09/27	11:50:00	1531	1551	1857	1921
2023/09/27	11:52:00	1547	1559	1853	1889
2023/09/27	11:54:00	1539	1562	1859	1889
2023/09/27	11:56:00	1545	1562	1852	1893
2023/09/27	11:58:00	1544	1560	1834	1872
2023/09/27	12:00:00	1541	1561	1831	1864
2023/09/27	12:02:00	1535	1562	1828	1864
2023/09/27	12:04:00	1540	1557	1824	1860
2023/09/27	12:06:00	1546	1562	1822	1852
2023/09/27	12:08:00	1543	1551	1807	1850
2023/09/27	12:10:00	1550	1563	1809	1852
2023/09/27	12:12:00	1541	1558	1812	1845
2023/09/27	12:14:00	1543	1558	1778	1842
2023/09/27	12:16:00	1551	1563	1802	1845
2023/09/27	12:18:00	1539	1559	1802	1838
2023/09/27	12:20:00	1543	1560	1795	1830
2023/09/27	12:22:00	1546	1553	1795	1833
2023/09/27	12:24:00	1549	1558	1794	1835
2023/09/27	12:26:00	1545	1561	1777	1832
2023/09/27	12:28:00	1543	1560	1790	1828
2023/09/27	12:30:00	1546	1558	1784	1826
2023/09/27	12:32:00	1548	1563	1790	1821
2023/09/27	12:34:00	1543	1560	1777	1825
2023/09/27	12:36:00	1541	1561	1785	1833
2023/09/27	12:38:00	1541	1559	1789	1820
2023/09/27	12:40:00	1543	1559	1780	1818
2023/09/27	12:42:00	1543	1556	1780	1823
2023/09/27	12:44:00	1548	1558	1785	1818
2023/09/27	12:46:00	1542	1561	1769	1821
2023/09/27	12:48:00	1544	1560	1780	1815
2023/09/27	12:50:00	1545	1556	1785	1815
2023/09/27	12:52:00	1548	1564	1785	1810
2023/09/27	12:54:00	1544	1559	1778	1820
2023/09/27	12:56:00	1546	1559	1780	1816
2023/09/27	12:58:00	1543	1560	1783	1810
2023/09/27	13:00:00	1545	1566	1778	1823

Attachment B
Copy of KCRDF RCA Form -Number 08V07

From:	RCA Notification
To:	Phadnis, Rajan
Cc:	Azevedo, Becky; Colline, Christian; Erin Phillips
Subject:	[EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.27.2023
Date:	Wednesday, September 27, 2023 1:11:24 PM

ID# 08V07

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Wednesday, September 27, 2023 1:00 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: KCRDF A1812-RCA for PG&E power outage on 9.27.2023

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 9.27.2023, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

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

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

September 27, 2023 (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
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on September 27, 2023, ~ 10:50 AM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 27, 2023, around ~1:00 PM.

Although KCRDF 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 KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF 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 September 27, 2023, the emergency generator was started and GCCS was back online at ~ 11:05 AM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. [X] **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	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	9/27/23 at~ 10:50 AM	Clear Time	9/27/23 at~11:05 AM
Monitor/device type(s)	[ ] ▶CEM [ ] ▶GLM [ ] ▶Parametric [ ] ▶PRD [ ] ▶Non-monitor		
Monitor description(s)			

Parameter(s) exceeded or not functioning due to inoperation

[ ] ▶NO_x [ ] ▶SO_2 [ ] ▶CO [ ] ▶CO_2 [ ] ▶H_2S [ ] ▶TRS [ ] ▶NH_3
[ ] ▶O_2 [ ] ▶H_2O [ ] ▶Opacity [ ] ▶Lead [ ] ▶Gauge Pressure [ ] ▶Flow
[ ] ▶Hydrocarbon Breakthrough (VOC) [ ] ▶Temperature [ ] ▶Wind Speed
[ ] ▶Wind Direction [ ] ▶Steam [X] ▶Other (describe) Power outage

Unit(s) of Measurement

[ ] ▶ppm [ ] ▶ppb [ ] ▶min/hr > 20% [ ] ▶inches H_2O [ ] ▶mmHg
[ ] ▶psig [ ] ▶pH [ ] ▶^{0}Fahrenheit [X] ▶Other (describe)

Event Description:

This breakdown report is being submitted on 9/27/2023 at ~ 1:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential 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 9/27/2023.

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.

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

October 3, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,
Request for Breakdown Relief RCA Number 08V07
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E unplanned power outage event on September 27, 2023.

A breakdown report (Per Regulation 1, Section 431) was submitted on September 27, 2023, at ~1:00 PM by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down on September 27, 2023, at ~11:02 AM during PG&E unplanned power outage caused due to a device-level outage. The standby emergency generator was started on September 27, 2023, around ~11:40 AM during the power outage event and flare was back online on September 27, 2023, at around ~11:44 AM (see Attachment A for flare data). Although KCRDF 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the September 27, 2023, PG&E power outage event via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on September 27, 2023 and was assigned RCA number 08V07 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA 08V07 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

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

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607

Sincerely,
Kirby Canyon Recycling & Disposal Facility

JK Jones

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form Number 08V07

Attachment A
KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

Flare A12

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2023/09/27	10:00:00	1548	1558	1671	1710
2023/09/27	10:02:00	1548	1554	1675	1717
2023/09/27	10:04:00	1551	1561	1677	1717
2023/09/27	10:06:00	1542	1561	1661	1708
2023/09/27	10:08:00	1542	1561	1666	1712
2023/09/27	10:10:00	1545	1562	1680	1710
2023/09/27	10:12:00	1541	1560	1677	1710
2023/09/27	10:14:00	1544	1561	1674	1705
2023/09/27	10:16:00	1543	1558	1670	1708
2023/09/27	10:18:00	1541	1558	1671	1708
2023/09/27	10:20:00	1542	1562	1662	1705
2023/09/27	10:22:00	1544	1559	1677	1727
2023/09/27	10:24:00	1548	1554	1667	1715
2023/09/27	10:26:00	1549	1556	1675	1717
2023/09/27	10:28:00	1546	1556	1680	1708
2023/09/27	10:30:00	1547	1562	1679	1712
2023/09/27	10:32:00	1544	1565	1680	1711
2023/09/27	10:34:00	1545	1557	1679	1715
2023/09/27	10:36:00	1546	1565	1679	1718
2023/09/27	10:38:00	1541	1563	1677	1715
2023/09/27	10:40:00	1541	1562	1669	1715
2023/09/27	10:42:00	1545	1557	1675	1721
2023/09/27	10:44:00	1552	1559	1672	1713
2023/09/27	10:46:00	1547	1554	1675	1710
2023/09/27	10:48:00	1546	1554	1672	1723
2023/09/27	10:50:00	1546	1559	1677	1712
2023/09/27	10:52:00	1545	1552	1684	1717
2023/09/27	10:54:00	1545	1558	1670	1717
2023/09/27	10:56:00	1542	1562	1677	1718
2023/09/27	10:58:00	1540	1565	1674	1716
2023/09/27	11:00:00	1540	1562	1664	1717
2023/09/27	11:02:00				
2023/09/27	11:04:00				
2023/09/27	11:06:00				
2023/09/27	11:08:00				
2023/09/27	11:10:00				
2023/09/27	11:12:00				
2023/09/27	11:14:00				
2023/09/27	11:16:00				
2023/09/27	11:18:00				
2023/09/27	11:20:00				
2023/09/27	11:22:00				
2023/09/27	11:24:00				
2023/09/27	11:26:00				

2023/09/27	11:28:00				
2023/09/27	11:30:00				
2023/09/27	11:32:00				
2023/09/27	11:34:00				
2023/09/27	11:36:00				
2023/09/27	11:38:00				
2023/09/27	11:40:00	120	122	-393	86
2023/09/27	11:42:00	115	120	-4	-3
2023/09/27	11:44:00	114	697	-418	4836
2023/09/27	11:46:00	697	1381	1855	2082
2023/09/27	11:48:00	1381	1531	1862	1934
2023/09/27	11:50:00	1531	1551	1857	1921
2023/09/27	11:52:00	1547	1559	1853	1889
2023/09/27	11:54:00	1539	1562	1859	1889
2023/09/27	11:56:00	1545	1562	1852	1893
2023/09/27	11:58:00	1544	1560	1834	1872
2023/09/27	12:00:00	1541	1561	1831	1864
2023/09/27	12:02:00	1535	1562	1828	1864
2023/09/27	12:04:00	1540	1557	1824	1860
2023/09/27	12:06:00	1546	1562	1822	1852
2023/09/27	12:08:00	1543	1551	1807	1850
2023/09/27	12:10:00	1550	1563	1809	1852
2023/09/27	12:12:00	1541	1558	1812	1845
2023/09/27	12:14:00	1543	1558	1778	1842
2023/09/27	12:16:00	1551	1563	1802	1845
2023/09/27	12:18:00	1539	1559	1802	1838
2023/09/27	12:20:00	1543	1560	1795	1830
2023/09/27	12:22:00	1546	1553	1795	1833
2023/09/27	12:24:00	1549	1558	1794	1835
2023/09/27	12:26:00	1545	1561	1777	1832
2023/09/27	12:28:00	1543	1560	1790	1828
2023/09/27	12:30:00	1546	1558	1784	1826
2023/09/27	12:32:00	1548	1563	1790	1821
2023/09/27	12:34:00	1543	1560	1777	1825
2023/09/27	12:36:00	1541	1561	1785	1833
2023/09/27	12:38:00	1541	1559	1789	1820
2023/09/27	12:40:00	1543	1559	1780	1818
2023/09/27	12:42:00	1543	1556	1780	1823
2023/09/27	12:44:00	1548	1558	1785	1818
2023/09/27	12:46:00	1542	1561	1769	1821
2023/09/27	12:48:00	1544	1560	1780	1815
2023/09/27	12:50:00	1545	1556	1785	1815
2023/09/27	12:52:00	1548	1564	1785	1810
2023/09/27	12:54:00	1544	1559	1778	1820
2023/09/27	12:56:00	1546	1559	1780	1816
2023/09/27	12:58:00	1543	1560	1783	1810
2023/09/27	13:00:00	1545	1566	1778	1823

Attachment B
Copy of KCRDF RCA Form -Number 08V07

From:	RCA Notification
To:	Phadnis, Rajan
Cc:	Azevedo, Becky; Colline, Christian; Erin Phillips
Subject:	[EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.27.2023
Date:	Wednesday, September 27, 2023 1:11:24 PM

ID# 08V07

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Wednesday, September 27, 2023 1:00 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: KCRDF A1812-RCA for PG&E power outage on 9.27.2023

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 9.27.2023, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

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

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

September 27, 2023 (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
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on September 27, 2023, ~ 10:50 AM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 27, 2023, around ~1:00 PM.

Although KCRDF 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 KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF 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 September 27, 2023, the emergency generator was started and GCCS was back online at ~ 11:05 AM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. [X] **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	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	9/27/23 at~ 10:50 AM	Clear Time	9/27/23 at~11:05 AM
Monitor/device type(s)	[ ] ▶CEM [ ] ▶GLM [ ] ▶Parametric [ ] ▶PRD [ ] ▶Non-monitor		
Monitor description(s)			

Parameter(s) exceeded or not functioning due to inoperation

[ ] ▶NO_x [ ] ▶SO_2 [ ] ▶CO [ ] ▶CO_2 [ ] ▶H_2S [ ] ▶TRS [ ] ▶NH_3
[ ] ▶O_2 [ ] ▶H_2O [ ] ▶Opacity [ ] ▶Lead [ ] ▶Gauge Pressure [ ] ▶Flow
[ ] ▶Hydrocarbon Breakthrough (VOC) [ ] ▶Temperature [ ] ▶Wind Speed
[ ] ▶Wind Direction [ ] ▶Steam [X] ▶Other (describe) Power outage

Unit(s) of Measurement

[ ] ▶ppm [ ] ▶ppb [ ] ▶min/hr > 20% [ ] ▶inches H_2O [ ] ▶mmHg
[ ] ▶psig [ ] ▶pH [ ] ▶^{0}Fahrenheit [X] ▶Other (describe)

Event Description:

This breakdown report is being submitted on 9/27/2023 at ~ 1:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential 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 9/27/2023.

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.

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

October 4, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812, Section I.F Title V, 10 and 30-Day written report

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") 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 KCRDF.

A breakdown report was submitted on September 29, 2023, at ~ 12:00 PM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on September 29, 2023, at ~11:22 AM during PG&E unplanned power outage caused due to a device-level outage-animal made contact to a phase source side bushing at transformer. The standby emergency generator was started during the power outage event on September 29, 2023, at around ~11:26 AM and the flare was online on September 29, 2023, around ~11:36 AM (see Attachment A for flare data). Although KCRDF 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the September 29, 2023, PG&E power outage via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on September 29, 2023 and was assigned RCA numbers 08V16 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 08V16 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

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

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form -Number 08V16

Attachment A
KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

Flare A12

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2023/09/29	10:30:00	1540	1560	1646	1695
2023/09/29	10:32:00	1537	1565	1646	1689
2023/09/29	10:34:00	1549	1556	1656	1697
2023/09/29	10:36:00	1543	1562	1661	1697
2023/09/29	10:38:00	1546	1554	1661	1689
2023/09/29	10:40:00	1549	1563	1656	1692
2023/09/29	10:42:00	1542	1558	1661	1699
2023/09/29	10:44:00	1542	1566	1671	1700
2023/09/29	10:46:00	1543	1562	1662	1696
2023/09/29	10:48:00	1543	1556	1647	1692
2023/09/29	10:50:00	1544	1567	1655	1692
2023/09/29	10:52:00	1542	1556	1659	1692
2023/09/29	10:54:00	1542	1561	1663	1692
2023/09/29	10:56:00	1542	1553	1658	1697
2023/09/29	10:58:00	1546	1569	1662	1692
2023/09/29	11:00:00	1542	1565	1655	1699
2023/09/29	11:02:00	1546	1559	1665	1696
2023/09/29	11:04:00	1536	1562	1663	1693
2023/09/29	11:06:00	1540	1557	1665	1701
2023/09/29	11:08:00	1550	1556	1671	1703
2023/09/29	11:10:00	1544	1553	1665	1701
2023/09/29	11:12:00	1543	1559	1666	1703
2023/09/29	11:14:00	1542	1567	1665	1703
2023/09/29	11:16:00	1542	1564	1667	1699
2023/09/29	11:18:00	1545	1562	1650	1703
2023/09/29	11:20:00	1544	1564	1672	1703
2023/09/29	11:22:00				
2023/09/29	11:24:00				
2023/09/29	11:26:00	714	752	-397	83
2023/09/29	11:28:00	571	714	-5	28
2023/09/29	11:30:00	463	571	-5	-4
2023/09/29	11:32:00	381	463	-5	-4
2023/09/29	11:34:00	321	381	-5	1071
2023/09/29	11:36:00	320	1055	1071	4908
2023/09/29	11:38:00	1055	1437	1772	1870
2023/09/29	11:40:00	1437	1525	1778	1848
2023/09/29	11:42:00	1525	1557	1783	1829
2023/09/29	11:44:00	1544	1562	1796	1832
2023/09/29	11:46:00	1543	1554	1800	1832
2023/09/29	11:48:00	1546	1563	1789	1827
2023/09/29	11:50:00	1541	1565	1787	1825
2023/09/29	11:52:00	1544	1554	1780	1823
2023/09/29	11:54:00	1553	1559	1783	1818

2023/09/29	11:56:00	1543	1553	1769	1810
2023/09/29	11:58:00	1546	1560	1779	1820
2023/09/29	12:00:00	1544	1562	1775	1810
2023/09/29	12:02:00	1541	1558	1773	1807
2023/09/29	12:04:00	1546	1558	1772	1803
2023/09/29	12:06:00	1545	1552	1775	1798
2023/09/29	12:08:00	1546	1558	1770	1803
2023/09/29	12:10:00	1546	1562	1770	1801
2023/09/29	12:12:00	1543	1561	1762	1798
2023/09/29	12:14:00	1542	1551	1742	1796
2023/09/29	12:16:00	1541	1563	1752	1800
2023/09/29	12:18:00	1544	1558	1769	1800
2023/09/29	12:20:00	1543	1559	1762	1798
2023/09/29	12:22:00	1541	1563	1755	1788
2023/09/29	12:24:00	1542	1563	1754	1792
2023/09/29	12:26:00	1538	1561	1755	1790
2023/09/29	12:28:00	1541	1561	1762	1793
2023/09/29	12:30:00	1543	1567	1762	1793
2023/09/29	12:32:00	1540	1567	1755	1792
2023/09/29	12:34:00	1541	1562	1764	1792
2023/09/29	12:36:00	1542	1564	1754	1790
2023/09/29	12:38:00	1540	1562	1760	1793
2023/09/29	12:40:00	1539	1563	1751	1790

Attachment B
Copy of KCRDF RCA Form -Number 08V16

From:	RCA Notification
To:	Phadnis, Rajan
Cc:	Azevedo, Becky; Colline, Christian; Erin Phillips
Subject:	[EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.29.2023
Date:	Friday, September 29, 2023 12:10:23 PM

ID# 08V16

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Friday, September 29, 2023 12:00 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: KCRDF A1812-RCA for PG&E power outage on 9.29.2023

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 9.29.2023, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

September 29, 2023 (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
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on September 29, 2023, ~ 11:05 AM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 29, 2023, around ~12:00 PM.

Although KCRDF 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 KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF 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 September 29, 2023, the emergency generator was started and GCCS was back online at ~ 11:20 AM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. [X] **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	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	9/29/23 at~11:05 AM	Clear Time	9/29/23 at~11:20 AM
Monitor/device type(s)	[ ] ▶CEM [ ] ▶GLM [ ] ▶Parametric [ ] ▶PRD [ ] ▶Non-monitor		
Monitor description(s)			

Parameter(s) exceeded or not functioning due to inoperation

[ ] ▶NO_x [ ] ▶SO_2 [ ] ▶CO [ ] ▶CO_2 [ ] ▶H_2S [ ] ▶TRS [ ] ▶NH_3
[ ] ▶O_2 [ ] ▶H_2O [ ] ▶Opacity [ ] ▶Lead [ ] ▶Gauge Pressure [ ] ▶Flow
[ ] ▶Hydrocarbon Breakthrough (VOC) [ ] ▶Temperature [ ] ▶Wind Speed
[ ] ▶Wind Direction [ ] ▶Steam [X] ▶Other (describe) Power outage

Unit(s) of Measurement

[ ] ▶ppm [ ] ▶ppb [ ] ▶min/hr > 20% [ ] ▶inches H_2O [ ] ▶mmHg
[ ] ▶psig [ ] ▶pH [ ] ▶^{0}Fahrenheit [X] ▶Other (describe)

Event Description:

This breakdown report is being submitted on 9/29/2023 at ~ 12:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential 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 9/29/2023.

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.

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

October 4, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,
Request for Breakdown Relief RCA Number 08V16
30-Day Written Follow-up Report (Per Regulation 1, Section 432)

Dear Sir or Madam:

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting this 30-Day follow-up report to the Bay Area Air Quality Management District (BAAQMD) for the PG&E unplanned power outage event on September 29, 2023.

A breakdown report (Per Regulation 1, Section 431) was submitted on September 29, 2023, at ~12:00 PM by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down on September 29, 2023, at ~11:22 AM during PG&E unplanned power outage caused due to a device-level outage- animal made contact to a phase source side bushing at transformer. The standby emergency generator was started on September 29, 2023, around ~11:26 AM during the power outage event and flare was back online on September 29, 2023, at around ~11:36 AM (see Attachment A for flare data). Although KCRDF 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the September 29, 2023, PG&E power outage event via BAAQMD's Reportable Compliance Activity (RCA) notification form submitted on September 29, 2023, and was assigned RCA number 08V16 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA 08V16 did not result in emissions and do not qualify as non-compliance. KCRDF believes that it complied with the Title V permit conditions and safety protocols. KCRDF followed all measures to ensure gas movers and valves were closed during the shutdown events. KCRDF's downtime events were not the result of equipment malfunction, knowing, willful, intentional, chronic nor committed by a recalcitrant, and did not benefit KCRDF economically nor result in a nuisance. The frequency and duration of weather or utility-related electrical interruptions are outside of KCRDF's control.

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

If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- KCRDF flare data
Attachment B- Copy of KCRDF RCA Form Number 08V16

Attachment A
KCRDF flare data

Kirby Canyon Recycling and Disposal Facility

Flare A12

Date	Time	CH01 Flare F MIN	MAX	CH02 Flare SCFM MIN	MAX
2023/09/29	10:30:00	1540	1560	1646	1695
2023/09/29	10:32:00	1537	1565	1646	1689
2023/09/29	10:34:00	1549	1556	1656	1697
2023/09/29	10:36:00	1543	1562	1661	1697
2023/09/29	10:38:00	1546	1554	1661	1689
2023/09/29	10:40:00	1549	1563	1656	1692
2023/09/29	10:42:00	1542	1558	1661	1699
2023/09/29	10:44:00	1542	1566	1671	1700
2023/09/29	10:46:00	1543	1562	1662	1696
2023/09/29	10:48:00	1543	1556	1647	1692
2023/09/29	10:50:00	1544	1567	1655	1692
2023/09/29	10:52:00	1542	1556	1659	1692
2023/09/29	10:54:00	1542	1561	1663	1692
2023/09/29	10:56:00	1542	1553	1658	1697
2023/09/29	10:58:00	1546	1569	1662	1692
2023/09/29	11:00:00	1542	1565	1655	1699
2023/09/29	11:02:00	1546	1559	1665	1696
2023/09/29	11:04:00	1536	1562	1663	1693
2023/09/29	11:06:00	1540	1557	1665	1701
2023/09/29	11:08:00	1550	1556	1671	1703
2023/09/29	11:10:00	1544	1553	1665	1701
2023/09/29	11:12:00	1543	1559	1666	1703
2023/09/29	11:14:00	1542	1567	1665	1703
2023/09/29	11:16:00	1542	1564	1667	1699
2023/09/29	11:18:00	1545	1562	1650	1703
2023/09/29	11:20:00	1544	1564	1672	1703
2023/09/29	11:22:00				
2023/09/29	11:24:00				
2023/09/29	11:26:00	714	752	-397	83
2023/09/29	11:28:00	571	714	-5	28
2023/09/29	11:30:00	463	571	-5	-4
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2023/09/29	11:36:00	320	1055	1071	4908
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2023/09/29	11:40:00	1437	1525	1778	1848
2023/09/29	11:42:00	1525	1557	1783	1829
2023/09/29	11:44:00	1544	1562	1796	1832
2023/09/29	11:46:00	1543	1554	1800	1832
2023/09/29	11:48:00	1546	1563	1789	1827
2023/09/29	11:50:00	1541	1565	1787	1825
2023/09/29	11:52:00	1544	1554	1780	1823
2023/09/29	11:54:00	1553	1559	1783	1818

2023/09/29	11:56:00	1543	1553	1769	1810
2023/09/29	11:58:00	1546	1560	1779	1820
2023/09/29	12:00:00	1544	1562	1775	1810
2023/09/29	12:02:00	1541	1558	1773	1807
2023/09/29	12:04:00	1546	1558	1772	1803
2023/09/29	12:06:00	1545	1552	1775	1798
2023/09/29	12:08:00	1546	1558	1770	1803
2023/09/29	12:10:00	1546	1562	1770	1801
2023/09/29	12:12:00	1543	1561	1762	1798
2023/09/29	12:14:00	1542	1551	1742	1796
2023/09/29	12:16:00	1541	1563	1752	1800
2023/09/29	12:18:00	1544	1558	1769	1800
2023/09/29	12:20:00	1543	1559	1762	1798
2023/09/29	12:22:00	1541	1563	1755	1788
2023/09/29	12:24:00	1542	1563	1754	1792
2023/09/29	12:26:00	1538	1561	1755	1790
2023/09/29	12:28:00	1541	1561	1762	1793
2023/09/29	12:30:00	1543	1567	1762	1793
2023/09/29	12:32:00	1540	1567	1755	1792
2023/09/29	12:34:00	1541	1562	1764	1792
2023/09/29	12:36:00	1542	1564	1754	1790
2023/09/29	12:38:00	1540	1562	1760	1793
2023/09/29	12:40:00	1539	1563	1751	1790

Attachment B
Copy of KCRDF RCA Form -Number 08V16

From:	RCA Notification
To:	Phadnis, Rajan
Cc:	Azevedo, Becky; Colline, Christian; Erin Phillips
Subject:	[EXTERNAL] RE: KCRDF A1812-RCA for PG&E power outage on 9.29.2023
Date:	Friday, September 29, 2023 12:10:23 PM

ID# 08V16

From: Phadnis, Rajan <rphadnis@wm.com>
Sent: Friday, September 29, 2023 12:00 PM
To: RCA Notification <rca@baaqmd.gov>
Cc: Phadnis, Rajan <rphadnis@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>
Subject: KCRDF A1812-RCA for PG&E power outage on 9.29.2023

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 9.29.2023, at Kirby Canyon Recycling and Disposal Facility- A1812.

Thank you,

Rajan Phadnis
EP Specialist
For Kirby Canyon Recycling and Disposal Facility

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037

September 29, 2023 (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
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812

Waste Management of California, Inc. d/b/a Kirby Canyon Recycling & Disposal Facility ("KCRDF") is submitting the attached Reportable Compliance Activity (RCA) Form for temporary flare shutdown event caused by unplanned utility power interruption on September 29, 2023, ~ 11:05 AM. A breakdown report about the PG&E's power outage is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on September 29, 2023, around ~12:00 PM.

Although KCRDF 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 KCRDF's control and KCRDF asserts that it did not violate any applicable regulations and limits.

Breakdown Relief should be granted as KCRDF 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 September 29, 2023, the emergency generator was started and GCCS was back online at ~ 11:20 AM. The shutdown event was unforeseeable & unpreventable at KCRDF. The flare was temporarily shut down and did not result in emission nor nuisance.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form KCRDF Facility A1812

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

COMPLIANCE & ENFORCEMENT DIVISION

Notification Form

Reportable Compliance Activity (RCA)

See back of form for instructions →

1. [X] **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	Kirby Canyon Recycling & Disposal Facility	Site #	A1812
Address	910 Coyote Creek Golf Drive, San Jose 95037	Source #	S-1
Reported by	R Phadnis	Phone #	510-875-9338
Indicated Excess	-NA	Fax #	-
Allowable Limit	-NA	Averaging Time	-
Start Time/Date	9/29/23 at~11:05 AM	Clear Time	9/29/23 at~11:20 AM
Monitor/device type(s)	[ ] ▶CEM [ ] ▶GLM [ ] ▶Parametric [ ] ▶PRD [ ] ▶Non-monitor		
Monitor description(s)			

Parameter(s) exceeded or not functioning due to inoperation

[ ] ▶NO_x [ ] ▶SO_2 [ ] ▶CO [ ] ▶CO_2 [ ] ▶H_2S [ ] ▶TRS [ ] ▶NH_3
[ ] ▶O_2 [ ] ▶H_2O [ ] ▶Opacity [ ] ▶Lead [ ] ▶Gauge Pressure [ ] ▶Flow
[ ] ▶Hydrocarbon Breakthrough (VOC) [ ] ▶Temperature [ ] ▶Wind Speed
[ ] ▶Wind Direction [ ] ▶Steam [X] ▶Other (describe) Power outage

Unit(s) of Measurement

[ ] ▶ppm [ ] ▶ppb [ ] ▶min/hr > 20% [ ] ▶inches H_2O [ ] ▶mmHg
[ ] ▶psig [ ] ▶pH [ ] ▶^{0}Fahrenheit [X] ▶Other (describe)

Event Description:

This breakdown report is being submitted on 9/29/2023 at ~ 12:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential 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 9/29/2023.

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.

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

November 15, 2023 (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: Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812
10-Day NOV Response to BAAQMD Notice of Violation A 59797, Dated November 7, 2023

Dear Sir or Madam:

Waste Management of California, Inc. is submitting this 10-day Notice of Violation (NOV) response letter to the Bay Area Air Quality Management District (BAAQMD) as required for the Kirby Canyon Recycling & Disposal Facility (KCRDF) in San Jose, CA (Plant No. A1812). On November 6, 2023, during an Environmental Protection Agency (U.S. EPA) and BAAQMD field inspection led by Trevor McAuliffe at the U.S. EPA, it is alleged that six surface emission locations in excess of 500 parts per million by volume as methane (ppm_v) above background were detected.

After completion of the inspection, NOV No. A 59797 was issued to KCRDF. As required by Title V Permit Condition Section I.F, a 10-day letter was submitted to BAAQMD on November 15, 2023.

BAAQMD Regulation 8, Rule 34, Section 303 states (8-34-303) "… *at no point on the landfill surface shall there be a surface leak that exceeds 500 ppm by volume, expressed as methane above background, other than non-repeatable, momentary readings…*"

Compliance Provisions under Standard for Performance of Municipal Solid Waste (MSW) Landfills, states (40 CFR 60.755(c)(4)) " ..... *Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in paragraphs (c)(4) (i) through (v) of this section shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of § 60.753(d).*"

In accordance with Section BAAQMD Regulation 8, Rule 34 Section 415 and 40 CFR 60.755(c)(4), well tuning, repairs to the surface, including the application of additional cover soil and compaction, were initiated immediately upon discovery of the alleged surface exceedances and completed during November 7 through 9, 2023. Ten-day re-monitoring was completed on November 9, 2023, and no emission exceedances above background were detected (data attached).

As indicated during the inspection, KCRDF Fourth Quarter 2023 Surface Emissions Monitoring (SEM) was scheduled for week of November 14, 2023. This monitoring event will be documented as a surface monitoring exceedance (near six well locations) in the Fourth Quarter 2023 SEM report. KCRDF completed the required actions specified in the referenced regulations in a timely manner. KCRDF therefore believes that the alleged exceedances detected by BAAQMD staff should not be a violation of the operational requirements as the specified actions were taken, and SEM exceedances will be reported as part of the Fourth Quarter 2023 SEM report. One-month re-monitoring of the location will be completed by KCRDF by December 6, 2023. These actions will prevent the potential for surface exceedances.

KCRDF is committed to operating its landfill in compliance with applicable regulations.
If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

JK Jones

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments: A- Copy of BAAQMD Notice of Violation A 59797
B - SEM re-monitoring results at the location of exceedances

ATTACHMENT A

NOV A 59797

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

NOTICE OF VIOLATION

No. A59797

ISSUED TO: Kirby Canyon Recycling & Disposal Facility ☑ P ☐ G ☐ N# A1812

ADDRESS: 910 Coyote Creek Dr

CITY: Morgan Hill STATE: CA ZIP: 95037

PHONE: (408) 960-0769

☑ N# Mailing Address on F61

OCCURRENCE

NAME:

ADDRESS: ☑ Same As Above

CITY: ZIP

SOURCE: S# 1 NAME: Kirby Canyon MSW Landfill/ Waste Decomposition

EMISSION PT: P# NAME:

DATE: 11/6/23 TIME: 1155 HRS

☐ REG 2 RULE 1 SEC 301
No Authority to Construct

☐ REG 2 RULE 1 SEC 302
No Permit to Operate

☐ REG 1 SEC 301
H & S CODE - 41700
Public Nuisance

☐ REG 2 RULE __ SEC 307
Failure to Meet Permit Condition

☐ REG 5 SEC 301
Prohibited Open Burning

☐ REG 6 RULE 1 SEC 301
Excessive Visible Emissions

☑ REG 8 RULE 34 SECTION 303 CODE

☐ REG RULE SECTION CODE

Details: 6 surface leaks exceeding 500 ppm detected near gas collection wells

RECIPIENT NAME: Marcus Nettz

TITLE: Director of Operations

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT X

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

ISSUED BY: Erin Phillips INSP # 853

DATE: 11/7/23 TIME: 1620 HRS ☐ MAILED

PLEASE PRESS HARD

Continued On Reverse

INSTRUCTIONS

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

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

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

ALL OTHER VIOLATIONS

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

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

ATTACHMENT B

SEM re-monitoring results at the location of exceedances

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

2023 QUARTER: 4

INITIAL MONITORING PERFORMED BY: EPA and BAAQMD (during EPA inspection dated 11.6.2023)

FOLLOW-UP MONITORING PERFORMED BY: KCRDF (Tino Robles)

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility **Wind Direction NW** **Wind Direction:**

Wind Speed: 10 **Wind Speed:**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exceed. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exceed. <500 ppm	Exced. >500 ppm	
1	11/6/2023	5,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	9					Well 82
2	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	24					Well 124
3	11/6/2023	1,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	7					Well 143
4	11/6/2023	10,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	14					Well 84
5	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	17					Well 57
6	11/6/2023	1,300	11/7/2023	Tuning, added soil and compacted	11/9/2023	28					Well 75

Note: *Alleged six surface exceedance over 500 ppm identified during EPA inspection on 11.6.2023.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 11/9/23

Time: 825 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 = 509
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 3 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 2.5 ppm

Performed by: [signature]

RESPONSE TIME TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285380411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm
90% of the Stabilized Reading: 501 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 500 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: 502 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 5.0 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285384111

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 503 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1-2 % (must be < than 10%)

Performed By: RBB

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

November 15, 2023 (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: Section I.F – 10-Day Title V Non-Compliance Report
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812
BAAQMD Notice of Violation A 59797, Dated November 7, 2023

Dear Sir or Madam:

Waste Management of California, Inc. is submitting this 10-day Notice of Violation (NOV) response letter to the Bay Area Air Quality Management District (BAAQMD) as required for the Kirby Canyon Recycling & Disposal Facility (KCRDF) in San Jose, CA (Plant No. A1812). On November 6, 2023, during an Environmental Protection Agency (U.S. EPA) and BAAQMD field inspection led by Trevor McAuliffe at the U.S. EPA, it is alleged that six surface emission locations in excess of 500 parts per million by volume as methane (ppm_v) above background were detected.

After completion of the inspection, NOV No. A 59797 was issued to KCRDF. As required by Title V Permit Condition Section I.F, a 10-day NOV response was submitted to BAAQMD on November 15, 2023.

BAAQMD Regulation 8, Rule 34, Section 303 states (8-34-303) "*… at no point on the landfill surface shall there be a surface leak that exceeds 500 ppm by volume, expressed as methane above background, other than non-repeatable, momentary readings…*"

Compliance Provisions under Standard for Performance of Municipal Solid Waste (MSW) Landfills, states (40 CFR 60.755(c)(4)) " ..... *Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in paragraphs (c)(4) (i) through (v) of this section shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of § 60.753(d).*"

In accordance with Section BAAQMD Regulation 8, Rule 34 Section 415 and 40 CFR 60.755(c)(4), well tuning, repairs to the surface, including the application of additional cover soil and compaction, were initiated immediately upon discovery of the alleged surface exceedances and completed during November 7 through 9, 2023. Ten-day re-monitoring was completed on November 9, 2023, and no emission exceedances above background were detected (data attached).

As indicated during the inspection, KCRDF Fourth Quarter 2023 Surface Emissions Monitoring (SEM) was scheduled for week of November 14, 2023. This monitoring event will be documented as a surface monitoring exceedance (near six well locations) in the Fourth Quarter 2023 SEM report. KCRDF completed the required actions specified in the referenced regulations in a timely manner. KCRDF therefore believes that the alleged exceedances detected by BAAQMD staff should not be a violation of the operational requirements as the specified actions were taken, and SEM exceedances will be reported as part of the Fourth Quarter 2023 SEM report. One-month re-monitoring of the location will be completed by KCRDF by December 6, 2023. These actions will prevent the potential for surface exceedances.

KCRDF is committed to operating its landfill in compliance with applicable regulations.
If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

JK Jones

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments: A- Copy of BAAQMD Notice of Violation A 59797

B- SEM re-monitoring results at the location of exceedances

ATTACHMENT A

NOV A 59797

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

NOTICE OF VIOLATION

No. A59797

ISSUED TO: Kirby Canyon Recycling & Disposal Facility ☑ P ☐ G ☐ N# A1812

ADDRESS: 910 Coyote Creek Dr

CITY: Morgan Hill STATE: CA ZIP: 95037

PHONE: (408) 960-0769

☑ N# Mailing Address on F61

OCCURRENCE

NAME:

ADDRESS: ☑ Same As Above

CITY: ZIP

SOURCE: S# 1 NAME: Kirby Canyon MSW Landfill/ Waste Decomposition

EMISSION PT: P# NAME:

DATE: 11/6/23 TIME: 1155 HRS

☐ REG 2 RULE 1 SEC 301
No Authority to Construct

☐ REG 2 RULE 1 SEC 302
No Permit to Operate

☐ REG 1 SEC 301
H & S CODE - 41700
Public Nuisance

☐ REG 2 RULE __ SEC 307
Failure to Meet Permit Condition

☐ REG 5 SEC 301
Prohibited Open Burning

☐ REG 6 RULE 1 SEC 301
Excessive Visible Emissions

☑ REG 8 RULE 34 SECTION 303 CODE

☐ REG RULE SECTION CODE

Details: 6 surface leaks exceeding 500 ppm detected near gas collection wells

RECIPIENT NAME: Marcus Nettz

TITLE: Director of Operations

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT X

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

ISSUED BY: Erin Phillips INSP # 853

DATE: 11/7/23 TIME: 1620 HRS ☐ MAILED

PLEASE PRESS HARD

Continued On Reverse

INSTRUCTIONS

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

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

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

ALL OTHER VIOLATIONS

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

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

ATTACHMENT B

SEM re-monitoring results at the location of exceedances

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

2023 QUARTER: 4

INITIAL MONITORING PERFORMED BY: EPA and BAAQMD (during EPA inspection dated 11.6.2023)

FOLLOW-UP MONITORING PERFORMED BY: KCRDF (Tino Robles)

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility **Wind Direction NW** **Wind Direction:**

Wind Speed: 10 **Wind Speed:**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exceed. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exceed. <500 ppm	Exced. >500 ppm	
1	11/6/2023	5,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	9					Well 82
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3	11/6/2023	1,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	7					Well 143
4	11/6/2023	10,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	14					Well 84
5	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	17					Well 57
6	11/6/2023	1,300	11/7/2023	Tuning, added soil and compacted	11/9/2023	28					Well 75

Note: *Alleged six surface exceedance over 500 ppm identified during EPA inspection on 11.6.2023.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 11/9/23

Time: 825 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 = 509
3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 3 ppm (a)
2. Downwind Reading (highest in 30 seconds): 2 ppm (b)

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 2.5 ppm

Performed by: [signature]

RESPONSE TIME TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285380411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm
90% of the Stabilized Reading: 501 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 500 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: 502 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 5.0 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285384111

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 503 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1-2 % (must be < than 10%)

Performed By: RBB

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

December 4, 2023 (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: Section I.F – 30-Day Title V Non-Compliance Report
Kirby Canyon Recycling & Disposal Facility, San Jose, CA, Facility Number A1812
BAAQMD Notice of Violation A59797, Dated November 7, 2023

Dear Sir or Madam:

Waste Management of California, Inc. is submitting this 30-day Title V report to the Bay Area Air Quality Management District (BAAQMD) as required for the Kirby Canyon Recycling & Disposal Facility (KCRDF) in San Jose, CA (Plant No. A1812). On November 6, 2023, during an Environmental Protection Agency (U.S. EPA) and BAAQMD field inspection led by Trevor McAuliffe at the U.S. EPA, it is alleged that six surface emission locations in excess of 500 parts per million by volume as methane (ppm_v) above background were detected.

After completion of the inspection, NOV Number A59797 was issued to KCRDF. As required by Title V Permit Condition Section I.F, a 10-day Title V response was submitted to BAAQMD on November 15, 2023.

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In accordance with Section BAAQMD Regulation 8, Rule 34 Section 415 and 40 CFR 60.755(c)(4), well tuning, repairs to the surface, including the application of additional cover soil and compaction, were initiated immediately upon discovery of the alleged surface exceedances and completed during November 7 through 9, 2023. Ten-day re-monitoring was completed on November 9, 2023, and no emission exceedances above background were detected. One-month

re-monitoring of the locations was completed on November 29, 2023, and no emission exceedances above background were detected (data attached). A second review of the affected areas was performed by BAAQMD Inspector Erin Phillips on November 30, 2023, and all locations were found to be in compliance.

As indicated during the inspection, KCRDF Fourth Quarter 2023 Surface Emissions Monitoring (SEM) was scheduled for week of November 14, 2023. This monitoring event will be documented as a surface monitoring exceedance (near six well locations) in the Fourth Quarter 2023 SEM report. KCRDF completed the required actions specified in the referenced regulations in a timely manner. KCRDF therefore believes that the alleged exceedances detected by BAAQMD staff should not be a violation of the operational requirements as the specified actions were taken, and SEM exceedances will be reported as part of the Fourth Quarter 2023 SEM report.

KCRDF is committed to operating its landfill in compliance with applicable regulations.
If you have any questions or need any additional information, please do not hesitate to contact me at (510) 778-0607.

Sincerely,
Kirby Canyon Recycling & Disposal Facility

JK Jones

Jessica K Jones
Area General Manager
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments: A- Copy of BAAQMD Notice of Violation A 59797

B- SEM re-monitoring results at the location of exceedances

ATTACHMENT 1

NOV A 59797

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

NOTICE OF VIOLATION

No. A59797

ISSUED TO: Kirby Canyon Recycling & Disposal Facility ☑ P ☐ G ☐ N# A1812

ADDRESS: 910 Coyote Creek Dr

CITY: Morgan Hill STATE: CA ZIP: 95037

PHONE: (408) 960-0769

☑ N# Mailing Address on F61

OCCURRENCE

NAME:

ADDRESS: ☑ Same As Above

CITY: ZIP

SOURCE: S# 1 NAME: Kirby Canyon MSW Landfill/ Waste Decomposition

EMISSION PT: P# NAME:

DATE: 11/6/23 TIME: 1155 HRS

☐ REG 2 RULE 1 SEC 301
No Authority to Construct

☐ REG 2 RULE 1 SEC 302
No Permit to Operate

☐ REG 1 SEC 301
H & S CODE - 41700
Public Nuisance

☐ REG 2 RULE __ SEC 307
Failure to Meet Permit Condition

☐ REG 5 SEC 301
Prohibited Open Burning

☐ REG 6 RULE 1 SEC 301
Excessive Visible Emissions

☑ REG 8 RULE 34 SECTION 303 CODE

☐ REG RULE SECTION CODE

Details: 6 surface leaks exceeding 500 ppm detected near gas collection wells

RECIPIENT NAME: Marcus Nettz

TITLE: Director of Operations

SIGNING THIS NOTICE IS NOT AN ADMISSION OF GUILT X

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

ISSUED BY: Erin Phillips INSP # 853

DATE: 11/7/23 TIME: 1620 HRS ☐ MAILED

PLEASE PRESS HARD

Continued On Reverse

INSTRUCTIONS

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

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

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

ALL OTHER VIOLATIONS

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

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

ATTACHMENT 2

SEM One-month re-monitoring at the location of exceedances

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

2023 QUARTER: 4

INITIAL MONITORING PERFORMED BY: EPA and BAAQMD (during EPA inspection dated 11.6.2023)

FOLLOW-UP MONITORING PERFORMED BY: KCRDF (Tino Robles)

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

Wind Direction NW **Wind Direction: NW**

Wind Speed: 10 **Wind Speed: 6**

Initial Monitoring Event			Corrective action within 5 days		1st 10-day Follow-Up			1st 30-day Follow-Up			Comments
Flag Number	Monitoring Date	Field Reading	Repair Date	Action taken to repair Exceedance	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	Monitoring Date	No Exced. <500 ppm	Exced. >500 ppm	
1	11/6/2023	5,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	9		11/29/2023	10		Well 82
2	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	24		11/29/2023	40		Well 124
3	11/6/2023	1,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	7		11/29/2023	15		Well 143
4	11/6/2023	10,000	11/7/2023	Tuning, added soil and compacted	11/9/2023	14		11/29/2023	190		Well 84
5	11/6/2023	1,100	11/7/2023	Tuning, added soil and compacted	11/9/2023	17		11/29/2023	20		Well 57
6	11/6/2023	1,300	11/7/2023	Tuning, added soil and compacted	11/9/2023	28		11/29/2023	25		Well 75

Note: *Alleged six surface exceedance over 500 ppm identified during EPA inspection on 11.6.2023.

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 11/29/23

Time: 545 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 = 503
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

$\frac{(a) + (b)}{2}$ Background = 1.5 ppm

Performed by: [signature]

RESPONSE TIME TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285380411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm
90% of the Stabilized Reading: 501 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 500 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: 502 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 5.0 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285384111

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 503 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1-2 % (must be < than 10%)

Performed By: RBB

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

December 1, 2023

Perry Ng
Air Quality Engineer
Bay Area Air Quality Management District
375 Beale Street, Suite 600
San Francisco, CA 94105

Subject: Startup Notification Letter for four New Vertical Wells and one Leachate Collector
Facility Number A1812
Kirby Canyon Recycling & Disposal Facility, San Jose, California

Dear Sir/Madam:

This letter is to notify the Bay Area Air Quality Management District (BAAQMD) of the startup of four vertical landfill gas (LFG) wells and one leachate collector in November 2023 at the Kirby Canyon Recycling & Disposal Facility (KCRDF), pursuant to Title V Permit Condition Number 1437 Part 6, as modified by Application Number 31447. The affected collectors and respective startup/shutdown dates are listed in the following table:

Well ID	Well Action Type	Applicable Date and Time
Well 169	Startup	11/29/2023; 12:35 PM
Well 170	Startup	11/29/2023; 11:55 AM
Well 171	Startup	11/29/2023; 12:51 PM
Well 172	Startup	11/29/2023; 12:25 PM
LCRS LR12	Startup	11/29/2023; 01:15 PM

As stated in the most recent Well Startup Notification submitted on May 16, 2023, there were 85 vertical LFG collection wells, 0 horizontal collectors and 3 LCRS connected to the GCCS at the KCRDF. After the completion of these well actions, the KCRDF current GCCS component count and remaining permitted actions per Application Number 31447 are listed in the following table:

Well Action Per Application #31447	Vertical Decommissioning Actions	Vertical Installation Actions	Vertical Replacement Actions	Horizontal Decommissioning Actions		Horizontal Installation Actions	
	VW	VW	VW	HC	LCRS	HC	LCRS
Permitted Actions	40	50	103	5	8	2	15
Actions Performed	0	11	0	0	0	0	1
Remaining Actions	40	39	103	5	8	2	14

Well Action Per Application #31447	Vertical Decommissioning Actions	Vertical Installation Actions	Vertical Replacement Actions	Horizontal Decommissioning Actions	Horizontal Installation Actions
Current Active Well Count	**89 vertical LFG wells, 0 HC and 4 LCRS**				

HC= Horizontal Trench Collectors; LCRS= Leachate Cleanout Riser; VW= Vertical Wells

If you have any questions or need any additional information, please do not hesitate to contact me at rphadnis@wm.com.

Sincerely,

Kirby Canyon Recycling & Disposal Facility

Rajan Phadnis
EP Specialist

cc: Bill Louis, KCRDF
Mike Winter, KCRDF

APPENDIX K

WELLFIELD DEVIATION LOG

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

WELLFIELD DEVIATION REPORT

Reporting Period: From July 1 2023 through December 31, 2023

REPORT PREPARED BY: Rajan Phadnis
UPDATED DATE: January 1, 2024
LFG MONITORING DEVICE: GEM
MODEL: 2000
DATE LAST CALIBRATED: DAILY

Well ID	Date and Time	CH_4	CO_2	O_2	Balance	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)	Comments	Duration of Exceedance As of the End of Reporting Period
KCLC0147	6/13/2023 8:10	14.0	12.7	14.8	58.5	58.7	58.2	-24.6	-28.8	NSPS/EG CAI;Inc. Flow/Vac.;Watered In;Adjusted for Oder/SEM	
KCLC0147	6/15/2023 13:31	6.9	5.5	16.8	70.8	81.8	80.9	-25.9	-25.6	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCLC0147	7/7/2023 11:32	48.4	36.2	2.6	12.8	72.7	72.7	-28.3	-28.3	NSPS/EG CAI;Barely Open;No Adj. Made	24
Well KCLC0147 had oxygen exceedance during monthly monitoring in June 2023. Well was repaired and exceedance was corrected during July monitoring.											
KCYNLR08	7/7/2023 7:38	4.7	2.4	16.7	76.2	59.6	59.5	-48.0	-47.9	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	8/3/2023 12:59	2.5	4.0	15.0	78.5	87.6	87.0	-48.0	-48.7	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	9/5/2023 7:36	0.7	5.8	15.4	78.1	62.0	62.2	-43.5	-43.4	NSPS/EG CAI;Barely Open;No Adj. Made	
KCYNLR08	10/3/2023 8:08	0.1	0.2	20.9	78.8	63.7	63.7	-2.2	-1.7	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCYNLR08	10/18/2023 6:29	59.5	40.5	0.0	0.0	71.5	65.3	36.5	-34.5	NSPS/EG CAI;Inc. Flow/Vac.	
KCYNLR08	10/18/2023 6:33	NSPS/EG Corrective Action Completed (CAC)									117
Well KCYNLR08 had oxygen exceedance during monthly monitoring events. New pump was installed and exceedance was cleared.											
KCYNLR08	10/18/2023 6:29	59.50	40.50	0.00	0.00	71.50	65.30	36.46	-34.51	NSPS/EG CAI;Inc. Flow/Vac.	<1
Well KCYNLR08 had pressure exceedance during October 2023 monitoring events. Adjustments were made and exceedance was corrected on the same day.											

APPENDIX L

MONTHLY LANDFILL GAS FLOW RATES

MONTHLY LFG Input to Flare (A-12) July 1-December 31, 2023

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	CH_4 (%)*	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Total Heat Input (MMBTU)
July-23	744.00	3.27	740.73	1,799	46.6	79,956,961	37,271,937	37,756
August-23	744.00	2.63	741.37	1,886	46.6	83,876,556	39,099,057	39,607
September-23	720.00	1.37	718.63	1,743	46.6	75,138,543	35,025,832	35,481
October-23	744.00	14.57	729.43	1,596	46.6	69,833,839	32,553,044	32,976
November 2023[1]	721.00	0.97	720.03	1,681	46.6	72,622,279	33,852,875	34,293
December-23	744.00	0.90	743.10	2,134	46.6	95,139,940	44,349,483	44,926
July 1-December 31, 2023, Totals/Avg	**4,417.0**	**23.7**	**4,393.3**	**1,806**	**46.6**	**476,568,118**	**222,152,228**	**225,040**

NOTES:

*Methane content determined from March 3, 2023 source test.

[1]There were 721 hours in November 2023, due to Daylight Saving Time.

The annual heat input rate for the A-12 Flare shall not exceed 1,087,700 MMBTU and 2,980 MMBTU per day (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

MONTHLY LFG Input to Flare (A-12)		
KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose,		
MONTHLY LFG Heat Input: 2023-part		
Month	**Monthly Total Heat Input (MMBTU)**	**12-Month Total Heat Input (MMBTU)**
July-23	37,756	405,963
August-23	39,607	413,697
September-23	35,481	418,543
October-23	32,976	418,808
November-23	34,293	424,358
December-23	44,926	436,949
MMBTU= million British thermal units		

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: July-23

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
7/1/2023	24.00	46.6	1,969	2,835,907	1,321,958	1,013.0	1,339
7/2/2023	24.00	46.6	1,941	2,795,692	1,303,212	1,013.0	1,320
7/3/2023	24.00	46.6	1,904	2,741,259	1,277,838	1,013.0	1,294
7/4/2023	22.97	46.6	1,942	2,676,679	1,247,734	1,013.0	1,264
7/5/2023	24.00	46.6	1,910	2,749,690	1,281,768	1,013.0	1,298
7/6/2023	24.00	46.6	1,900	2,736,260	1,275,508	1,013.0	1,292
7/7/2023	24.00	46.6	1,883	2,711,626	1,264,024	1,013.0	1,280
7/8/2023	24.00	46.6	1,865	2,686,248	1,252,195	1,013.0	1,268
7/9/2023	24.00	46.6	1,870	2,692,985	1,255,335	1,013.0	1,272
7/10/2023	24.00	46.6	1,818	2,617,349	1,220,077	1,013.0	1,236
7/11/2023	24.00	46.6	1,772	2,550,979	1,189,139	1,013.0	1,205
7/12/2023	24.00	46.6	1,753	2,524,444	1,176,770	1,013.0	1,192
7/13/2023	24.00	46.6	1,756	2,529,124	1,178,951	1,013.0	1,194
7/14/2023	24.00	46.6	1,756	2,528,462	1,178,643	1,013.0	1,194
7/15/2023	24.00	46.6	1,759	2,533,670	1,181,070	1,013.0	1,196
7/16/2023	24.00	46.6	1,749	2,519,171	1,174,312	1,013.0	1,190
7/17/2023	24.00	46.6	1,736	2,499,991	1,165,371	1,013.0	1,181
7/18/2023	24.00	46.6	1,738	2,503,113	1,166,826	1,013.0	1,182
7/19/2023	24.00	46.6	1,725	2,483,982	1,157,908	1,013.0	1,173
7/20/2023	24.00	46.6	1,731	2,493,331	1,162,266	1,013.0	1,177
7/21/2023	24.00	46.6	1,747	2,516,352	1,172,997	1,013.0	1,188
7/22/2023	24.00	46.6	1,749	2,518,338	1,173,923	1,013.0	1,189
7/23/2023	24.00	46.6	1,722	2,479,004	1,155,588	1,013.0	1,171
7/24/2023	24.00	46.6	1,719	2,475,299	1,153,861	1,013.0	1,169
7/25/2023	21.93	46.6	1,778	2,340,223	1,090,895	1,013.0	1,105
7/26/2023	23.83	46.6	1,810	2,587,911	1,206,355	1,013.0	1,222
7/27/2023	24.00	46.6	1,755	2,526,741	1,177,840	1,013.0	1,193
7/28/2023	24.00	46.6	1,755	2,527,490	1,178,189	1,013.0	1,194
7/29/2023	24.00	46.6	1,756	2,528,718	1,178,762	1,013.0	1,194
7/30/2023	24.00	46.6	1,755	2,526,915	1,177,921	1,013.0	1,193
7/31/2023	24.00	46.6	1,750	2,520,008	1,174,702	1,013.0	1,190
Totals/ Average:	**740.73**	**46.6**	**1,799**	**79,956,961**	**37,271,937**	1,013.0	**37,756**
						Maximum	**1,339**

NOTES:

*Starting April 20, 2023, Methane content determined from the March 3, 2023, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: August-23

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
8/1/2023	24.00	46.6	1,748	2,517,500	1,173,533	1,013.0	1,189
8/2/2023	24.00	46.6	1,807	2,602,628	1,213,215	1,013.0	1,229
8/3/2023	24.00	46.6	1,875	2,699,888	1,258,553	1,013.0	1,275
8/4/2023	24.00	46.6	1,907	2,745,567	1,279,846	1,013.0	1,296
8/5/2023	24.00	46.6	1,903	2,740,974	1,277,705	1,013.0	1,294
8/6/2023	24.00	46.6	1,911	2,751,142	1,282,445	1,013.0	1,299
8/7/2023	24.00	46.6	1,891	2,723,730	1,269,667	1,013.0	1,286
8/8/2023	24.00	46.6	1,859	2,676,596	1,247,695	1,013.0	1,264
8/9/2023	24.00	46.6	1,874	2,698,034	1,257,689	1,013.0	1,274
8/10/2023	24.00	46.6	1,877	2,703,227	1,260,109	1,013.0	1,276
8/11/2023	24.00	46.6	1,892	2,723,900	1,269,746	1,013.0	1,286
8/12/2023	24.00	46.6	1,896	2,730,303	1,272,731	1,013.0	1,289
8/13/2023	24.00	46.6	1,903	2,740,706	1,277,580	1,013.0	1,294
8/14/2023	21.37	46.6	1,915	2,454,823	1,144,316	1,013.0	1,159
8/15/2023	24.00	46.6	1,945	2,800,324	1,305,371	1,013.0	1,322
8/16/2023	24.00	46.6	1,923	2,769,272	1,290,896	1,013.0	1,308
8/17/2023	24.00	46.6	1,911	2,751,820	1,282,761	1,013.0	1,299
8/18/2023	24.00	46.6	1,892	2,724,460	1,270,007	1,013.0	1,287
8/19/2023	24.00	46.6	1,891	2,723,688	1,269,647	1,013.0	1,286
8/20/2023	24.00	46.6	1,892	2,724,016	1,269,800	1,013.0	1,286
8/21/2023	24.00	46.6	1,863	2,682,238	1,250,325	1,013.0	1,267
8/22/2023	24.00	46.6	1,898	2,733,296	1,274,126	1,013.0	1,291
8/23/2023	24.00	46.6	1,916	2,758,600	1,285,921	1,013.0	1,303
8/24/2023	24.00	46.6	1,880	2,707,669	1,262,180	1,013.0	1,279
8/25/2023	24.00	46.6	1,888	2,719,396	1,267,646	1,013.0	1,284
8/26/2023	24.00	46.6	1,884	2,712,570	1,264,465	1,013.0	1,281
8/27/2023	24.00	46.6	1,887	2,717,352	1,266,694	1,013.0	1,283
8/28/2023	24.00	46.6	1,895	2,728,341	1,271,816	1,013.0	1,288
8/29/2023	24.00	46.6	1,887	2,717,172	1,266,610	1,013.0	1,283
8/30/2023	24.00	46.6	1,901	2,738,066	1,276,349	1,013.0	1,293
8/31/2023	24.00	46.6	1,847	2,659,258	1,239,613	1,013.0	1,256
Totals/ Average:	**741.37**	**46.6**	**1,886**	**83,876,556**	**39,099,057**	1,013.0	**39,607**
						Maximum	**1,322**

NOTES:

*Starting April 20, 2023, Methane content determined from the March 3, 2023, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: September-23

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
9/1/2023	24.00	46.6	1,823	2,625,330	1,223,798	1,013.0	1,240
9/2/2023	24.00	46.6	1,823	2,625,448	1,223,853	1,013.0	1,240
9/3/2023	24.00	46.6	1,838	2,646,639	1,233,731	1,013.0	1,250
9/4/2023	24.00	46.6	1,847	2,659,731	1,239,834	1,013.0	1,256
9/5/2023	24.00	46.6	1,842	2,652,259	1,236,351	1,013.0	1,252
9/6/2023	24.00	46.6	1,775	2,555,640	1,191,312	1,013.0	1,207
9/7/2023	24.00	46.6	1,737	2,501,919	1,166,270	1,013.0	1,181
9/8/2023	24.00	46.6	1,736	2,500,485	1,165,601	1,013.0	1,181
9/9/2023	24.00	46.6	1,731	2,492,686	1,161,966	1,013.0	1,177
9/10/2023	24.00	46.6	1,730	2,491,717	1,161,514	1,013.0	1,177
9/11/2023	24.00	46.6	1,732	2,494,732	1,162,919	1,013.0	1,178
9/12/2023	24.00	46.6	1,718	2,474,062	1,153,284	1,013.0	1,168
9/13/2023	24.00	46.6	1,714	2,468,328	1,150,611	1,013.0	1,166
9/14/2023	24.00	46.6	1,717	2,472,880	1,152,733	1,013.0	1,168
9/15/2023	24.00	46.6	1,727	2,486,288	1,158,983	1,013.0	1,174
9/16/2023	24.00	46.6	1,725	2,483,862	1,157,852	1,013.0	1,173
9/17/2023	24.00	46.6	1,738	2,502,414	1,166,500	1,013.0	1,182
9/18/2023	24.00	46.6	1,733	2,495,204	1,163,139	1,013.0	1,178
9/19/2023	24.00	46.6	1,733	2,495,256	1,163,164	1,013.0	1,178
9/20/2023	24.00	46.6	1,708	2,458,850	1,146,193	1,013.0	1,161
9/21/2023	24.00	46.6	1,711	2,464,341	1,148,753	1,013.0	1,164
9/22/2023	24.00	46.6	1,717	2,472,287	1,152,457	1,013.0	1,167
9/23/2023	24.00	46.6	1,718	2,473,376	1,152,964	1,013.0	1,168
9/24/2023	24.00	46.6	1,720	2,476,568	1,154,452	1,013.0	1,169
9/25/2023	24.00	46.6	1,720	2,476,332	1,154,342	1,013.0	1,169
9/26/2023	24.00	46.6	1,727	2,486,968	1,159,300	1,013.0	1,174
9/27/2023	23.10	46.6	1,739	2,409,963	1,123,404	1,013.0	1,138
9/28/2023	24.00	46.6	1,702	2,450,774	1,142,428	1,013.0	1,157
9/29/2023	23.53	46.6	1,711	2,416,509	1,126,456	1,013.0	1,141
9/30/2023	24.00	46.6	1,686	2,427,695	1,131,670	1,013.0	1,146
Totals/ Average:	**718.63**	**46.6**	**1,743**	**75,138,543**	**35,025,832**	1,013.0	**35,481**
						Maximum	**1,256**

NOTES:

*Starting April 20, 2023, Methane content determined from the March 3, 2023, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: October-23

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
10/1/2023	24.00	46.6	1,673	2,409,836	1,123,345	1,013.0	1,138
10/2/2023	24.00	46.6	1,668	2,401,291	1,119,362	1,013.0	1,134
10/3/2023	24.00	46.6	1,666	2,399,446	1,118,502	1,013.0	1,133
10/4/2023	24.00	46.6	1,672	2,407,972	1,122,476	1,013.0	1,137
10/5/2023	24.00	46.6	1,690	2,434,032	1,134,624	1,013.0	1,149
10/6/2023	24.00	46.6	1,697	2,443,281	1,138,935	1,013.0	1,154
10/7/2023	24.00	46.6	1,692	2,436,575	1,135,809	1,013.0	1,151
10/8/2023	24.00	46.6	1,671	2,406,626	1,121,849	1,013.0	1,136
10/9/2023	24.00	46.6	1,637	2,357,755	1,099,067	1,013.0	1,113
10/10/2023	24.00	46.6	1,653	2,379,988	1,109,431	1,013.0	1,124
10/11/2023	24.00	46.6	1,637	2,356,782	1,098,614	1,013.0	1,113
10/12/2023	24.00	46.6	1,644	2,367,783	1,103,742	1,013.0	1,118
10/13/2023	24.00	46.6	1,593	2,293,471	1,069,102	1,013.0	1,083
10/14/2023	19.20	46.6	1,535	1,768,039	824,171	1,013.0	835
10/15/2023	14.23	46.6	1,669	1,425,554	664,522	1,013.0	673
10/16/2023	24.00	46.6	1,559	2,244,316	1,046,188	1,013.0	1,060
10/17/2023	24.00	46.6	1,555	2,239,137	1,043,774	1,013.0	1,057
10/18/2023	24.00	46.6	1,570	2,260,128	1,053,559	1,013.0	1,067
10/19/2023	24.00	46.6	1,576	2,270,085	1,058,200	1,013.0	1,072
10/20/2023	24.00	46.6	1,548	2,229,042	1,039,068	1,013.0	1,053
10/21/2023	24.00	46.6	1,542	2,219,914	1,034,813	1,013.0	1,048
10/22/2023	24.00	46.6	1,526	2,197,246	1,024,246	1,013.0	1,038
10/23/2023	24.00	46.6	1,526	2,197,718	1,024,466	1,013.0	1,038
10/24/2023	24.00	46.6	1,525	2,195,449	1,023,409	1,013.0	1,037
10/25/2023	24.00	46.6	1,528	2,200,707	1,025,860	1,013.0	1,039
10/26/2023	24.00	46.6	1,532	2,205,491	1,028,090	1,013.0	1,041
10/27/2023	24.00	46.6	1,529	2,201,573	1,026,263	1,013.0	1,040
10/28/2023	24.00	46.6	1,525	2,195,404	1,023,388	1,013.0	1,037
10/29/2023	24.00	46.6	1,531	2,204,004	1,027,396	1,013.0	1,041
10/30/2023	24.00	46.6	1,558	2,242,870	1,045,514	1,013.0	1,059
10/31/2023	24.00	46.6	1,557	2,242,324	1,045,259	1,013.0	1,059
Totals/ Average:	**729.43**	**46.6**	**1,596**	**69,833,839**	**32,553,044**	1,013.0	**32,976**
						Maximum	**1,154**

NOTES:

*Starting April 20, 2023, Methane content determined from the March 3, 2023, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: November-23

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
11/1/2023	24.00	46.6	1,583	2,279,613	1,062,642	1,013.0	1,076
11/2/2023	24.00	46.6	1,606	2,313,246	1,078,320	1,013.0	1,092
11/3/2023	24.00	46.6	1,640	2,361,984	1,101,039	1,013.0	1,115
11/4/2023	24.00	46.6	1,658	2,388,212	1,113,265	1,013.0	1,128
11/5/2023	25.00	46.6	1,654	2,481,411	1,156,710	1,013.0	1,172
11/6/2023	23.53	46.6	1,651	2,331,810	1,086,973	1,013.0	1,101
11/7/2023	24.00	46.6	1,637	2,357,475	1,098,937	1,013.0	1,113
11/8/2023	24.00	46.6	1,639	2,360,688	1,100,435	1,013.0	1,115
11/9/2023	24.00	46.6	1,652	2,378,785	1,108,871	1,013.0	1,123
11/10/2023	24.00	46.6	1,674	2,411,160	1,123,962	1,013.0	1,139
11/11/2023	24.00	46.6	1,679	2,417,446	1,126,892	1,013.0	1,142
11/12/2023	24.00	46.6	1,673	2,409,316	1,123,103	1,013.0	1,138
11/13/2023	24.00	46.6	1,664	2,396,131	1,116,956	1,013.0	1,131
11/14/2023	24.00	46.6	1,665	2,398,207	1,117,924	1,013.0	1,132
11/15/2023	24.00	46.6	1,659	2,388,370	1,113,339	1,013.0	1,128
11/16/2023	24.00	46.6	1,656	2,384,211	1,111,400	1,013.0	1,126
11/17/2023	24.00	46.6	1,654	2,382,296	1,110,507	1,013.0	1,125
11/18/2023	24.00	46.6	1,638	2,358,707	1,099,511	1,013.0	1,114
11/19/2023	24.00	46.6	1,632	2,350,648	1,095,755	1,013.0	1,110
11/20/2023	24.00	46.6	1,621	2,333,635	1,087,824	1,013.0	1,102
11/21/2023	24.00	46.6	1,603	2,308,104	1,075,923	1,013.0	1,090
11/22/2023	24.00	46.6	1,633	2,351,335	1,096,075	1,013.0	1,110
11/23/2023	24.00	46.6	1,622	2,336,111	1,088,978	1,013.0	1,103
11/24/2023	24.00	46.6	1,602	2,306,676	1,075,257	1,013.0	1,089
11/25/2023	24.00	46.6	1,602	2,306,507	1,075,178	1,013.0	1,089
11/26/2023	24.00	46.6	1,598	2,301,060	1,072,639	1,013.0	1,087
11/27/2023	24.00	46.6	1,687	2,429,316	1,132,426	1,013.0	1,147
11/28/2023	23.50	46.6	1,773	2,499,288	1,165,043	1,013.0	1,180
11/29/2023	24.00	46.6	2,097	3,019,572	1,407,573	1,013.0	1,426
11/30/2023	24.00	46.6	2,278	3,280,959	1,529,419	1,013.0	1,549
Totals/ Average:	**720.03**	**46.6**	**1,681**	**72,622,279**	**33,852,875**	1,013.0	**34,293**
						Maximum	**1,549**

NOTES:

*Starting April 20, 2023, Methane content determined from the March 3, 2023, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
San Jose, CA

Heat Input Rate
A-12 Flare
MONTH: December-23

Date	Runtime (hours)	CH_4 (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH_4 Volume (scf)	Heating Value of CH_4 (BTU/scf)	Heat Input (MMBTU)/Day
12/1/2023	24.00	46.6	2,169	3,123,183	1,455,872	1,013.0	1,475
12/2/2023	24.00	46.6	2,157	3,106,246	1,447,977	1,013.0	1,467
12/3/2023	24.00	46.6	2,156	3,104,749	1,447,279	1,013.0	1,466
12/4/2023	24.00	46.6	2,203	3,172,949	1,479,070	1,013.0	1,498
12/5/2023	24.00	46.6	2,167	3,120,810	1,454,766	1,013.0	1,474
12/6/2023	24.00	46.6	2,100	3,024,062	1,409,667	1,013.0	1,428
12/7/2023	24.00	46.6	2,083	2,998,807	1,397,894	1,013.0	1,416
12/8/2023	24.00	46.6	2,074	2,985,844	1,391,851	1,013.0	1,410
12/9/2023	24.00	46.6	2,079	2,993,720	1,395,523	1,013.0	1,414
12/10/2023	24.00	46.6	2,084	3,001,562	1,399,178	1,013.0	1,417
12/11/2023	24.00	46.6	2,113	3,043,012	1,418,500	1,013.0	1,437
12/12/2023	24.00	46.6	2,121	3,054,768	1,423,980	1,013.0	1,442
12/13/2023	24.00	46.6	2,116	3,047,710	1,420,690	1,013.0	1,439
12/14/2023	24.00	46.6	2,126	3,060,721	1,426,755	1,013.0	1,445
12/15/2023	24.00	46.6	2,136	3,075,165	1,433,488	1,013.0	1,452
12/16/2023	24.00	46.6	2,139	3,079,524	1,435,520	1,013.0	1,454
12/17/2023	24.00	46.6	2,131	3,069,221	1,430,717	1,013.0	1,449
12/18/2023	24.00	46.6	2,124	3,058,922	1,425,916	1,013.0	1,444
12/19/2023	24.00	46.6	2,126	3,061,223	1,426,989	1,013.0	1,446
12/20/2023	24.00	46.6	2,108	3,035,133	1,414,827	1,013.0	1,433
12/21/2023	24.00	46.6	2,119	3,052,029	1,422,703	1,013.0	1,441
12/22/2023	24.00	46.6	2,176	3,133,782	1,460,812	1,013.0	1,480
12/23/2023	24.00	46.6	2,219	3,195,311	1,489,494	1,013.0	1,509
12/24/2023	24.00	46.6	2,107	3,033,649	1,414,135	1,013.0	1,433
12/25/2023	24.00	46.6	2,116	3,047,164	1,420,435	1,013.0	1,439
12/26/2023	24.00	46.6	2,144	3,086,820	1,438,921	1,013.0	1,458
12/27/2023	23.10	46.6	2,183	3,025,985	1,410,563	1,013.0	1,429
12/28/2023	24.00	46.6	2,164	3,115,977	1,452,513	1,013.0	1,471
12/29/2023	24.00	46.6	2,145	3,088,683	1,439,790	1,013.0	1,459
12/30/2023	24.00	46.6	2,131	3,068,013	1,430,154	1,013.0	1,449
12/31/2023	24.00	46.6	2,136	3,075,196	1,433,503	1,013.0	1,452
Totals/ Average:	**743.10**	**46.6**	**2,134**	**95,139,940**	**44,349,483**	1,013.0	**44,926**
						Maximum	**1,509**

NOTES:

*Starting April 20, 2023, Methane content determined from the March 3, 2023, A-12 Source Test is used.

The daily heat input rate for the A-12 Flare shall not exceed 3,576 MMBTU (Title V Permit A1812 Condition 1437 Part 8).

scfm= standard cubic feet per minute

BTU/scf= British thermal unit per square cubic feet

scf= standard cubic feet

MMBTU= million British thermal units

LFG= landfill gas

CH_4= methane

APPENDIX M

MONTHLY CONDENSATE INJECTION LOGS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY			
CONDENSATE INJECTION TOTALS:2023 part			
Title V Permit A1812, Condition Number 1437 Part 14			
Month	**Average Condensate Injection Rate (gpm)**	**Monthly Condensate Injection Throughput (gallons)**	**Condensate Injection Throughput 12-Month Total (gallons)**
July-23	2.3	47,973	799,680
August-23	1.9	48,704	799,404
September-23	2.1	56,301	798,994
October-23	2.0	53,153	783,560
November-23	2.1	61,944	775,173
December-23	2.3	90,402	783,855
NOTES:			
gpm= gallons per minute			
Pursuant to Title V Permit A1812, Condition Number 1437 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.			
Pursuant to Title V Permit A1812, Condition Number 1437 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.			

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

July-23

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2023/07/01	01:24:00	2023/07/01	09:22:00	478.0	2.5	1,191
2023/07/01	13:50:00	2023/07/01	18:16:00	266.0	2.6	680
2023/07/02	03:58:00	2023/07/02	11:32:00	454.0	2.5	1,142
2023/07/02	18:10:00	2023/07/02	21:44:00	214.0	2.5	533
2023/07/03	04:42:00	2023/07/03	13:28:00	526.0	2.4	1,261
2023/07/03	22:32:00	2023/07/03	23:58:00	88.0	2.5	219
2023/07/04	00:00:00	2023/07/04	04:50:00	290.0	2.4	708
2023/07/04	12:04:00	2023/07/04	17:18:00	314.0	2.5	774
2023/07/05	00:48:00	2023/07/05	12:36:00	708.0	2.6	1,853
2023/07/05	18:42:00	2023/07/05	22:14:00	212.0	2.7	569
2023/07/06	03:32:00	2023/07/06	10:50:00	438.0	2.6	1,148
2023/07/06	15:28:00	2023/07/06	19:22:00	234.0	2.8	645
2023/07/07	02:26:00	2023/07/07	08:50:00	384.0	2.6	1,014
2023/07/07	13:40:00	2023/07/07	18:44:00	304.0	2.5	767
2023/07/08	02:08:00	2023/07/08	10:22:00	494.0	2.5	1,212
2023/07/08	15:02:00	2023/07/08	19:52:00	290.0	2.5	734
2023/07/09	02:14:00	2023/07/09	10:14:00	480.0	2.4	1,174
2023/07/09	14:52:00	2023/07/09	19:34:00	282.0	2.5	717
2023/07/10	02:06:00	2023/07/10	09:20:00	434.0	2.5	1,073
2023/07/10	14:22:00	2023/07/10	18:56:00	274.0	2.5	696
2023/07/11	02:40:00	2023/07/11	09:36:00	416.0	2.5	1,046
2023/07/11	14:14:00	2023/07/11	18:34:00	260.0	2.6	666
2023/07/12	03:44:00	2023/07/12	07:10:00	206.0	2.5	518
2023/07/12	07:18:00	2023/07/12	14:58:00	460.0	2.0	928
2023/07/13	00:48:00	2023/07/13	14:46:00	838.0	1.9	1,617
2023/07/14	00:08:00	2023/07/14	12:54:00	766.0	1.9	1,447
2023/07/14	21:56:00	2023/07/14	23:58:00	124.0	2.0	248
2023/07/15	00:00:00	2023/07/15	05:38:00	338.0	1.9	656
2023/07/15	10:40:00	2023/07/15	19:02:00	502.0	2.0	980
2023/07/16	04:28:00	2023/07/16	15:32:00	664.0	1.9	1,280
2023/07/17	02:20:00	2023/07/17	14:20:00	720.0	1.9	1,378
2023/07/18	01:12:00	2023/07/18	13:12:00	720.0	1.9	1,377
2023/07/18	23:20:00	2023/07/18	23:58:00	40.0	2.0	79
2023/07/19	00:00:00	2023/07/19	08:36:00	516.0	1.9	992
2023/07/19	13:28:00	2023/07/19	20:14:00	406.0	1.9	788
2023/07/20	04:24:00	2023/07/20	17:22:00	778.0	1.9	1,451
2023/07/21	03:08:00	2023/07/21	15:12:00	724.0	1.9	1,370
2023/07/22	02:22:00	2023/07/22	14:02:00	700.0	1.9	1,332
2023/07/23	01:58:00	2023/07/23	12:18:00	620.0	2.0	1,231
2023/07/23	21:12:00	2023/07/23	23:58:00	168.0	2.0	336
2023/07/24	00:00:00	2023/07/24	04:12:00	252.0	1.9	485
2023/07/24	09:34:00	2023/07/24	18:48:00	554.0	1.9	1,056
2023/07/25	09:36:00	2023/07/25	11:38:00	122.0	2.1	251
2023/07/25	14:04:00	2023/07/25	14:10:00	6.0	0.0	0
2023/07/26	06:52:00	2023/07/26	06:56:00	4.0	0.5	2
2023/07/26	12:14:00	2023/07/26	19:42:00	448.0	3.1	1,376
2023/07/27	04:12:00	2023/07/27	07:12:00	180.0	3.3	587
2023/07/27	12:16:00	2023/07/27	16:14:00	238.0	2.7	645
2023/07/28	01:26:00	2023/07/28	05:32:00	246.0	2.8	682

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

July-23

2023/07/28	10:30:00	2023/07/28	14:58:00	268.0	2.7	735
2023/07/29	00:20:00	2023/07/29	04:10:00	230.0	2.8	643
2023/07/29	09:16:00	2023/07/29	13:54:00	278.0	2.7	763
2023/07/29	23:12:00	2023/07/29	23:58:00	48.0	2.9	137
2023/07/30	00:00:00	2023/07/30	02:52:00	172.0	2.8	483
2023/07/30	08:02:00	2023/07/30	12:42:00	280.0	2.8	777
2023/07/30	21:08:00	2023/07/30	23:58:00	172.0	2.8	485
2023/07/31	06:00:00	2023/07/31	14:08:00	488.0	2.1	1,036
Totals				**21,116**	**2.3**	**47,973**
				Maximum GPM	**3.3**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

August-23

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2023/08/01	00:28:00	2023/08/01	09:20:00	532.0	1.9	1,013
2023/08/01	13:44:00	2023/08/01	19:56:00	372.0	1.9	718
2023/08/02	03:00:00	2023/08/02	14:52:00	712.0	1.9	1,337
2023/08/02	22:32:00	2023/08/02	23:58:00	88.0	1.9	171
2023/08/03	00:00:00	2023/08/03	09:46:00	586.0	1.9	1,103
2023/08/03	14:10:00	2023/08/03	20:12:00	362.0	1.9	697
2023/08/04	02:44:00	2023/08/04	16:02:00	798.0	1.9	1,497
2023/08/05	01:00:00	2023/08/05	14:00:00	780.0	1.9	1,469
2023/08/05	23:12:00	2023/08/05	23:58:00	48.0	2.0	95
2023/08/06	00:00:00	2023/08/06	08:18:00	498.0	1.9	956
2023/08/06	12:50:00	2023/08/06	19:04:00	374.0	2.0	735
2023/08/07	03:48:00	2023/08/07	15:16:00	688.0	1.9	1,284
2023/08/08	01:52:00	2023/08/08	15:16:00	804.0	1.9	1,505
2023/08/08	23:40:00	2023/08/08	23:58:00	20.0	2.0	40
2023/08/09	00:00:00	2023/08/09	11:42:00	702.0	1.9	1,319
2023/08/09	16:48:00	2023/08/09	22:12:00	324.0	1.9	625
2023/08/10	03:54:00	2023/08/10	16:18:00	744.0	1.9	1,399
2023/08/11	00:30:00	2023/08/11	11:16:00	646.0	1.9	1,232
2023/08/11	16:30:00	2023/08/11	21:24:00	294.0	2.0	579
2023/08/12	04:06:00	2023/08/12	16:04:00	718.0	1.9	1,364
2023/08/13	01:46:00	2023/08/13	12:50:00	664.0	1.9	1,279
2023/08/13	22:08:00	2023/08/13	23:58:00	112.0	2.0	224
2023/08/14	00:00:00	2023/08/14	05:18:00	318.0	1.9	617
2023/08/14	10:30:00	2023/08/14	17:12:00	402.0	1.9	751
2023/08/14	18:48:00	2023/08/14	19:00:00	12.0	1.9	23
2023/08/14	19:36:00	2023/08/14	20:12:00	36.0	1.9	68
2023/08/14	22:04:00	2023/08/14	23:58:00	116.0	2.0	231
2023/08/15	00:00:00	2023/08/15	00:22:00	22.0	1.9	41
2023/08/15	06:04:00	2023/08/15	15:56:00	592.0	1.9	1,139
2023/08/16	02:50:00	2023/08/16	13:00:00	610.0	1.9	1,184
2023/08/16	23:30:00	2023/08/16	23:58:00	30.0	2.0	61
2023/08/17	00:00:00	2023/08/17	06:44:00	404.0	2.0	794
2023/08/17	11:42:00	2023/08/17	18:22:00	400.0	2.0	786
2023/08/18	03:36:00	2023/08/18	14:18:00	642.0	1.9	1,221
2023/08/18	23:10:00	2023/08/18	23:58:00	50.0	2.0	99
2023/08/19	00:00:00	2023/08/19	08:32:00	512.0	1.9	984
2023/08/19	13:16:00	2023/08/19	19:36:00	380.0	2.0	742
2023/08/20	03:40:00	2023/08/20	14:54:00	674.0	1.9	1,298
2023/08/20	23:38:00	2023/08/20	23:58:00	22.0	2.0	45
2023/08/21	00:00:00	2023/08/21	07:28:00	448.0	2.0	882
2023/08/21	12:46:00	2023/08/21	20:00:00	434.0	2.0	850
2023/08/22	01:46:00	2023/08/22	13:12:00	686.0	1.9	1,337
2023/08/22	21:20:00	2023/08/22	23:58:00	160.0	2.0	322
2023/08/23	00:00:00	2023/08/23	04:20:00	260.0	2.0	511
2023/08/23	09:12:00	2023/08/23	17:48:00	516.0	2.0	1,014
2023/08/24	03:28:00	2023/08/24	12:46:00	558.0	2.0	1,117
2023/08/24	19:48:00	2023/08/24	23:58:00	252.0	2.0	511
2023/08/25	00:00:00	2023/08/25	01:28:00	88.0	2.0	174
2023/08/25	06:36:00	2023/08/25	15:28:00	532.0	2.0	1,054
2023/08/26	00:18:00	2023/08/26	10:06:00	588.0	2.0	1,176
2023/08/26	14:58:00	2023/08/26	20:22:00	324.0	2.0	658
2023/08/27	02:42:00	2023/08/27	14:30:00	708.0	2.0	1,409
2023/08/27	22:46:00	2023/08/27	23:58:00	74.0	2.1	153
2023/08/28	00:00:00	2023/08/28	07:22:00	442.0	2.0	889
2023/08/28	11:30:00	2023/08/28	18:58:00	448.0	2.0	902
2023/08/29	02:48:00	2023/08/29	14:46:00	718.0	2.0	1,422
2023/08/29	23:02:00	2023/08/29	23:58:00	58.0	2.1	120
2023/08/30	00:00:00	2023/08/30	07:28:00	448	2.02	905

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

August-23

2023/08/30	12:02:00	2023/08/30	18:52:00	410	2.03	833
2023/08/31	03:10:00	2023/08/31	12:46:00	576	2.01	1,158
2023/08/31	19:14:00	2023/08/31	23:58:00	286	2.04	582
Totals				**25,102**	**1.9**	**48,704**
				Maximum GPM	**2.1**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

September-23

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2023/09/01	00:00:00	2023/09/01	02:36:00	156.0	2.0	312
2023/09/01	07:22:00	2023/09/01	17:00:00	578.0	2.0	1,159
2023/09/02	00:16:00	2023/09/02	09:52:00	576.0	2.0	1,170
2023/09/02	15:04:00	2023/09/02	22:10:00	426.0	2.0	871
2023/09/03	03:18:00	2023/09/03	13:26:00	608.0	2.0	1,242
2023/09/03	19:20:00	2023/09/03	23:58:00	280.0	2.1	583
2023/09/04	00:00:00	2023/09/04	02:08:00	128.0	2.0	262
2023/09/04	07:02:00	2023/09/04	16:54:00	592.0	2.0	1,203
2023/09/05	00:48:00	2023/09/05	11:46:00	658.0	2.0	1,344
2023/09/05	16:50:00	2023/09/05	21:56:00	306.0	2.1	641
2023/09/06	03:36:00	2023/09/06	14:24:00	648.0	2.0	1,316
2023/09/06	21:18:00	2023/09/06	23:58:00	162.0	2.1	339
2023/09/07	00:00:00	2023/09/07	05:42:00	342.0	2.1	704
2023/09/07	10:16:00	2023/09/07	18:56:00	520.0	2.0	1,062
2023/09/08	02:20:00	2023/09/08	14:44:00	744.0	2.1	1,533
2023/09/08	23:38:00	2023/09/08	23:58:00	22.0	2.1	47
2023/09/09	00:00:00	2023/09/09	08:58:00	538.0	2.1	1,129
2023/09/09	13:34:00	2023/09/09	20:20:00	406.0	2.1	869
2023/09/10	02:24:00	2023/09/10	13:42:00	678.0	2.1	1,428
2023/09/10	20:24:00	2023/09/10	23:58:00	216.0	2.2	470
2023/09/11	00:00:00	2023/09/11	03:14:00	194.0	2.1	413
2023/09/11	08:06:00	2023/09/11	18:24:00	618.0	2.1	1,297
2023/09/12	01:54:00	2023/09/12	12:52:00	658.0	2.1	1,375
2023/09/12	18:32:00	2023/09/12	23:58:00	328.0	2.1	702
2023/09/13	00:00:00	2023/09/13	00:50:00	50.0	2.1	103
2023/09/13	05:44:00	2023/09/13	17:16:00	692.0	2.1	1,438
2023/09/14	00:30:00	2023/09/14	11:36:00	666.0	2.1	1,410
2023/09/14	16:06:00	2023/09/14	22:02:00	356.0	2.1	751
2023/09/15	03:28:00	2023/09/15	17:12:00	824.0	2.1	1,732
2023/09/16	00:48:00	2023/09/16	10:30:00	582.0	2.1	1,232
2023/09/16	15:10:00	2023/09/16	22:02:00	412.0	2.1	870
2023/09/17	03:30:00	2023/09/17	14:36:00	666.0	2.1	1,397
2023/09/17	22:14:00	2023/09/17	23:58:00	106.0	2.1	226
2023/09/18	00:00:00	2023/09/18	08:14:00	494.0	2.1	1,036
2023/09/18	13:00:00	2023/09/18	20:02:00	422.0	2.1	897
2023/09/19	02:04:00	2023/09/19	14:40:00	756.0	2.1	1,594
2023/09/19	21:58:00	2023/09/19	23:58:00	122.0	2.2	263
2023/09/20	00:00:00	2023/09/20	08:12:00	492.0	2.1	1,046
2023/09/20	12:54:00	2023/09/20	21:10:00	496.0	2.1	1,058
2023/09/21	02:16:00	2023/09/21	15:22:00	786.0	2.1	1,651
2023/09/21	22:26:00	2023/09/21	23:58:00	94.0	2.1	201
2023/09/22	00:00:00	2023/09/22	09:46:00	586.0	2.1	1,235
2023/09/22	14:20:00	2023/09/22	21:48:00	448.0	2.1	954
2023/09/23	03:14:00	2023/09/23	16:14:00	780.0	2.1	1,643
2023/09/23	23:22:00	2023/09/23	23:58:00	38.0	2.2	82
2023/09/24	00:00:00	2023/09/24	10:08:00	608.0	2.1	1,285
2023/09/24	14:26:00	2023/09/24	21:08:00	402.0	2.1	858
2023/09/25	02:42:00	2023/09/25	15:22:00	760.0	2.1	1,596
2023/09/25	22:32:00	2023/09/25	23:58:00	88.0	2.1	187

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

September-23

2023/09/26	00:00:00	2023/09/26	09:20:00	560.0	2.1	1,175
2023/09/26	13:52:00	2023/09/26	21:22:00	450.0	2.1	940
2023/09/27	02:48:00	2023/09/27	11:02:00	494.0	2.1	1,032
2023/09/27	12:04:00	2023/09/27	13:48:00	104.0	2.1	214
2023/09/27	14:10:00	2023/09/27	19:54:00	344.0	2.0	704
2023/09/28	01:44:00	2023/09/28	07:34:00	350.0	2.0	714
2023/09/28	09:42:00	2023/09/28	20:32:00	650.0	2.0	1,309
2023/09/29	02:16:00	2023/09/29	11:22:00	546.0	2.0	1,097
2023/09/29	11:44:00	2023/09/29	13:36:00	112.0	2.0	221
2023/09/29	13:58:00	2023/09/29	19:04:00	306.0	2.0	610
2023/09/30	00:50:00	2023/09/30	15:46:00	896.0	2.0	1,797
2023/09/30	21:44:00	2023/09/30	23:58:00	136.0	2.0	274
Totals				**27,056**	**2.1**	**56,301**
				Maximum GPM	**2.2**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

October-23

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2023/10/01	00:00:00	2023/10/01	12:16:00	736.0	2.0	1,474
2023/10/01	17:00:00	2023/10/01	23:58:00	420.0	2.0	844
2023/10/02	00:00:00	2023/10/02	01:10:00	70.0	2.0	139
2023/10/02	05:54:00	2023/10/02	19:46:00	832.0	2.0	1,642
2023/10/03	01:32:00	2023/10/03	17:06:00	934.0	2.0	1,852
2023/10/04	00:30:00	2023/10/04	15:04:00	874.0	2.0	1,721
2023/10/04	23:18:00	2023/10/04	23:58:00	42.0	2.0	84
2023/10/05	00:00:00	2023/10/05	09:48:00	588.0	2.0	1,178
2023/10/05	14:30:00	2023/10/05	21:00:00	390.0	2.0	761
2023/10/06	03:38:00	2023/10/06	15:42:00	724.0	2.0	1,414
2023/10/07	00:44:00	2023/10/07	12:06:00	682.0	1.9	1,327
2023/10/07	18:32:00	2023/10/07	23:58:00	328.0	2.0	662
2023/10/08	00:00:00	2023/10/08	00:12:00	12.0	1.9	22
2023/10/08	05:56:00	2023/10/08	17:04:00	668.0	2.0	1,350
2023/10/09	01:30:00	2023/10/09	13:38:00	728.0	2.1	1,497
2023/10/09	18:54:00	2023/10/09	23:58:00	306.0	2.1	630
2023/10/10	00:00:00	2023/10/10	04:56:00	296.0	2.0	602
2023/10/10	09:52:00	2023/10/10	19:38:00	586.0	2.0	1,200
2023/10/11	01:26:00	2023/10/11	14:46:00	800.0	2.1	1,653
2023/10/11	20:52:00	2023/10/11	23:58:00	188.0	2.1	394
2023/10/12	00:00:00	2023/10/12	10:10:00	610.0	2.1	1,264
2023/10/12	14:42:00	2023/10/12	22:34:00	472.0	2.1	995
2023/10/13	03:40:00	2023/10/13	15:48:00	728.0	2.1	1,530
2023/10/14	02:02:00	2023/10/14	08:50:00	408.0	2.1	853
2023/10/14	15:22:00	2023/10/14	19:12:00	230.0	2.1	481
2023/10/15	12:04:00	2023/10/15	18:56:00	412.0	2.0	835
2023/10/16	05:42:00	2023/10/16	13:28:00	466.0	2.0	947
2023/10/16	23:18:00	2023/10/16	23:58:00	42.0	2.1	87
2023/10/17	00:00:00	2023/10/17	06:08:00	368.0	2.0	752
2023/10/17	13:02:00	2023/10/17	20:10:00	428.0	2.1	902
2023/10/18	03:42:00	2023/10/18	12:44:00	542.0	2.1	1,149
2023/10/18	19:36:00	2023/10/18	23:58:00	264.0	2.2	582
2023/10/19	00:00:00	2023/10/19	01:28:00	88.0	2.2	190
2023/10/19	07:36:00	2023/10/19	16:48:00	552.0	2.0	1,118
2023/10/20	02:30:00	2023/10/20	10:44:00	494.0	2.0	1,001
2023/10/20	16:02:00	2023/10/20	21:42:00	340.0	2.0	690
2023/10/21	04:16:00	2023/10/21	12:50:00	514.0	2.0	1,039
2023/10/21	19:22:00	2023/10/21	23:58:00	278.0	2.1	572
2023/10/22	00:00:00	2023/10/22	02:08:00	128.0	2.0	259
2023/10/22	08:02:00	2023/10/22	17:00:00	538.0	2.0	1,089
2023/10/22	23:12:00	2023/10/22	23:58:00	48.0	2.1	99
2023/10/23	00:00:00	2023/10/23	08:16:00	496.0	2.0	1,004
2023/10/23	13:58:00	2023/10/23	21:16:00	438.0	2.1	913
2023/10/24	03:18:00	2023/10/24	12:38:00	560.0	2.0	1,143
2023/10/24	18:16:00	2023/10/24	23:58:00	344.0	2.1	718
2023/10/25	06:02:00	2023/10/25	15:14:00	552.0	2.1	1,141
2023/10/25	22:06:00	2023/10/25	23:58:00	114.0	2.1	238
2023/10/26	00:00:00	2023/10/26	07:20:00	440.0	2.1	903
2023/10/26	12:56:00	2023/10/26	20:48:00	472.0	2.1	977

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

October-23

2023/10/27	02:30:00	2023/10/27	12:22:00	592.0	2.1	1,217
2023/10/27	17:40:00	2023/10/27	23:58:00	380.0	2.1	791
2023/10/28	00:00:00	2023/10/28	01:22:00	82.0	2.0	167
2023/10/28	06:46:00	2023/10/28	16:44:00	598.0	2.1	1,230
2023/10/28	23:30:00	2023/10/28	23:58:00	30.0	2.1	63
2023/10/29	00:00:00	2023/10/29	09:58:00	598.0	2.1	1,228
2023/10/29	15:16:00	2023/10/29	22:56:00	460.0	2.1	946
2023/10/30	04:18:00	2023/10/30	15:14:00	656.0	2.0	1,338
2023/10/30	22:18:00	2023/10/30	23:58:00	102.0	2.1	213
2023/10/31	00:00:00	2023/10/31	08:40:00	520.0	2.0	1,061
2023/10/31	13:56:00	2023/10/31	21:48:00	472.0	2.1	982
Totals				**26,060**	**2.0**	**53,153**
				Maximum GPM	**2.2**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

November-23

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2023/11/01	03:32:00	2023/11/01	16:18:00	766.0	2.1	1,571
2023/11/01	23:26:00	2023/11/01	23:58:00	34.0	2.1	72
2023/11/02	00:00:00	2023/11/02	10:36:00	636.0	2.1	1,307
2023/11/02	15:22:00	2023/11/02	22:34:00	432.0	2.1	890
2023/11/03	04:08:00	2023/11/03	17:16:00	788.0	2.0	1,600
2023/11/04	00:26:00	2023/11/04	12:20:00	714.0	2.0	1,460
2023/11/04	17:38:00	2023/11/04	23:58:00	382.0	2.1	788
2023/11/05	00:00:00	2023/11/05	00:44:00	28.0	2.0	55
2023/11/05	05:12:00	2023/11/05	17:32:00	740.0	2.0	1,500
2023/11/06	00:28:00	2023/11/06	07:40:00	432.0	2.0	883
2023/11/06	08:06:00	2023/11/06	15:12:00	426.0	2.0	850
2023/11/06	20:20:00	2023/11/06	23:58:00	220.0	2.0	447
2023/11/07	00:00:00	2023/11/07	06:58:00	418.0	2.0	844
2023/11/07	12:26:00	2023/11/07	22:34:00	608.0	2.0	1,239
2023/11/08	03:38:00	2023/11/08	16:26:00	768.0	2.0	1,559
2023/11/08	22:56:00	2023/11/08	23:58:00	64.0	2.1	133
2023/11/09	00:00:00	2023/11/09	11:26:00	686.0	2.0	1,400
2023/11/09	15:40:00	2023/11/09	23:26:00	466.0	2.1	959
2023/11/10	04:40:00	2023/11/10	16:46:00	726.0	2.0	1,487
2023/11/10	23:04:00	2023/11/10	23:58:00	56.0	2.1	117
2023/11/11	00:00:00	2023/11/11	11:06:00	666.0	2.1	1,371
2023/11/11	16:16:00	2023/11/11	23:58:00	464.0	2.1	963
2023/11/12	00:00:00	2023/11/12	00:52:00	52.0	2.0	105
2023/11/12	06:08:00	2023/11/12	17:40:00	692.0	2.1	1,426
2023/11/13	00:08:00	2023/11/13	12:12:00	724.0	2.1	1,494
2023/11/13	17:44:00	2023/11/13	23:58:00	376.0	2.1	786
2023/11/14	00:00:00	2023/11/14	03:56:00	236.0	2.1	484
2023/11/14	09:22:00	2023/11/14	19:20:00	598.0	2.1	1,245
2023/11/15	01:02:00	2023/11/15	13:14:00	732.0	2.1	1,523
2023/11/15	18:56:00	2023/11/15	23:58:00	304.0	2.1	636
2023/11/16	00:00:00	2023/11/16	06:56:00	416.0	2.1	859
2023/11/16	12:04:00	2023/11/16	22:14:00	610.0	2.1	1,275
2023/11/17	03:30:00	2023/11/17	15:34:00	724.0	2.1	1,509
2023/11/17	21:16:00	2023/11/17	23:58:00	164.0	2.1	345
2023/11/18	00:00:00	2023/11/18	08:46:00	526.0	2.1	1,094
2023/11/18	14:04:00	2023/11/18	23:58:00	596.0	2.1	1,247
2023/11/19	00:00:00	2023/11/19	00:14:00	14.0	1.9	27
2023/11/19	05:12:00	2023/11/19	16:32:00	680.0	2.1	1,417
2023/11/19	22:22:00	2023/11/19	23:58:00	98.0	2.1	208
2023/11/20	00:00:00	2023/11/20	11:42:00	702.0	2.1	1,459
2023/11/20	17:02:00	2023/11/20	23:58:00	418.0	2.1	873
2023/11/21	00:00:00	2023/11/21	01:30:00	90.0	2.0	184
2023/11/21	07:04:00	2023/11/21	19:44:00	760.0	2.1	1,563
2023/11/22	01:38:00	2023/11/22	15:24:00	826.0	2.0	1,687
2023/11/22	21:42:00	2023/11/22	23:58:00	138.0	2.1	286
2023/11/23	00:00:00	2023/11/23	10:38:00	638.0	2.0	1,304
2023/11/23	15:36:00	2023/11/23	23:58:00	504.0	2.1	1,043

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

November-23

2023/11/24	00:00:00	2023/11/24	01:32:00	92.0	2.0	186
2023/11/24	06:34:00	2023/11/24	18:14:00	700.0	2.0	1,435
2023/11/24	23:52:00	2023/11/24	23:58:00	8.0	2.1	17
2023/11/25	00:00:00	2023/11/25	13:20:00	800.0	2.1	1,641
2023/11/25	19:14:00	2023/11/25	23:58:00	286.0	2.1	599
2023/11/26	00:00:00	2023/11/26	07:54:00	474.0	2.1	976
2023/11/26	13:08:00	2023/11/26	23:58:00	652.0	2.1	1,347
2023/11/27	00:00:00	2023/11/27	00:52:00	52.0	2.0	105
2023/11/27	06:02:00	2023/11/27	23:58:00	1,078.0	2.0	2,181
2023/11/28	00:00:00	2023/11/28	03:22:00	202.0	2.0	403
2023/11/28	07:52:00	2023/11/28	17:42:00	590.0	2.0	1,197
2023/11/28	20:10:00	2023/11/28	23:58:00	230.0	2.1	474
2023/11/29	00:00:00	2023/11/29	23:58:00	1,440.0	2.0	2,917
2023/11/30	00:00:00	2023/11/30	23:58:00	1,440.0	2.0	2,892
Totals				**30,182**	**2.1**	**61,944**
				Maximum GPM	**2.1**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

KIRBY CANYON RECYCLING & DISPOSAL FACILITY

CONDENSATE INJECTION (A-12 Flare)

December-23

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2023/12/01	00:00:00	2023/12/01	23:58:00	1,440.0	2.0	2,904
2023/12/02	00:00:00	2023/12/02	23:58:00	1,440.0	2.0	2,907
2023/12/03	00:00:00	2023/12/03	23:58:00	1,440.0	2.0	2,906
2023/12/04	00:00:00	2023/12/04	23:58:00	1,440.0	2.0	2,903
2023/12/05	00:00:00	2023/12/05	17:08:00	1,028.0	2.0	2,064
2023/12/05	21:34:00	2023/12/05	23:58:00	146.0	2.1	303
2023/12/06	00:00:00	2023/12/06	23:58:00	1,440.0	2.1	2,953
2023/12/07	00:00:00	2023/12/07	23:58:00	1,440.0	2.0	2,936
2023/12/08	00:00:00	2023/12/08	23:58:00	1,440.0	2.1	2,988
2023/12/09	00:00:00	2023/12/09	23:58:00	1,440.0	2.1	3,028
2023/12/10	00:00:00	2023/12/10	23:58:00	1,440.0	2.1	3,039
2023/12/11	00:00:00	2023/12/11	23:58:00	1,440.0	2.1	3,024
2023/12/12	00:00:00	2023/12/12	23:58:00	1,440.0	2.1	3,032
2023/12/13	00:00:00	2023/12/13	23:58:00	1,440.0	2.1	3,031
2023/12/14	00:00:00	2023/12/14	23:58:00	1,440.0	2.1	3,028
2023/12/15	00:00:00	2023/12/15	17:24:00	1,044.0	2.1	2,181
2023/12/15	21:22:00	2023/12/15	23:58:00	158.0	2.2	347
2023/12/16	00:00:00	2023/12/16	23:58:00	1,440.0	2.2	3,128
2023/12/17	00:00:00	2023/12/17	23:58:00	1,440.0	2.1	3,071
2023/12/18	00:00:00	2023/12/18	23:58:00	1,440.0	2.1	3,065
2023/12/19	00:00:00	2023/12/19	19:18:00	1,158.0	2.3	2,689
2023/12/19	22:58:00	2023/12/19	23:58:00	62.0	2.6	160
2023/12/20	00:00:00	2023/12/20	19:24:00	1,164.0	2.6	3,007
2023/12/20	23:02:00	2023/12/20	23:58:00	58.0	2.6	152
2023/12/21	00:00:00	2023/12/21	16:40:00	1,000.0	2.6	2,596
2023/12/21	20:32:00	2023/12/21	23:58:00	208.0	2.7	551
2023/12/22	00:00:00	2023/12/22	13:32:00	812.0	2.6	2,120
2023/12/22	16:52:00	2023/12/22	23:58:00	428.0	2.6	1,124
2023/12/23	00:00:00	2023/12/23	06:26:00	386.0	2.6	1,001
2023/12/23	10:20:00	2023/12/23	21:56:00	696.0	2.6	1,830
2023/12/24	02:10:00	2023/12/24	14:58:00	768.0	2.7	2,054
2023/12/24	19:02:00	2023/12/24	23:58:00	298.0	2.7	809
2023/12/25	00:00:00	2023/12/25	10:00:00	600.0	2.7	1,605
2023/12/25	14:00:00	2023/12/25	23:58:00	600.0	2.7	1,599
2023/12/26	00:00:00	2023/12/26	01:38:00	98.0	2.6	256
2023/12/26	05:18:00	2023/12/26	19:42:00	864.0	2.6	2,289
2023/12/26	23:30:00	2023/12/26	23:58:00	30.0	2.7	81
2023/12/27	00:00:00	2023/12/27	07:34:00	454.0	2.7	1,206
2023/12/27	08:48:00	2023/12/27	16:16:00	448.0	2.6	1,181
2023/12/27	20:10:00	2023/12/27	23:58:00	230.0	2.7	615
2023/12/28	00:00:00	2023/12/28	09:16:00	556.0	2.6	1,471
2023/12/28	13:00:00	2023/12/28	23:14:00	614.0	2.6	1,601
2023/12/29	03:02:00	2023/12/29	15:52:00	770.0	2.6	2,027
2023/12/29	20:00:00	2023/12/29	23:58:00	240.0	2.7	640
2023/12/30	00:00:00	2023/12/30	08:18:00	498.0	2.6	1,310
2023/12/30	12:16:00	2023/12/30	23:16:00	660.0	2.6	1,723
2023/12/31	02:50:00	2023/12/31	14:46:00	716.0	2.6	1,864
Totals				**39,832**	**2.3**	**90,402**
				Maximum GPM	**2.7**	

gpm= gallons per minute

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the landfill gas condensate injection rate shall not exceed 5 gpm.

Pursuant to Title V Permit A1812, Condition Number 25301 Part 14, the total landfill gas condensate injection throughput shall not exceed 2,000,000 gallons during any consecutive 12-month period.

APPENDIX N

GAS MIGRATION MONITORING REPORTS

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

October 31, 2023

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Fourth Quarter 2023 Perimeter gas and Methane in Structure Monitoring Report
Kirby Canyon Recycling & Disposal Facility

Dear Ms. Azevedo:

This report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Fourth Quarter 2023 Perimeter Gas and Methane in Structure Monitoring conducted at the KCRDF. All monitoring was conducted by KCRDF 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.

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 any of the monitoring events.

Results for probes and are summarized in Table 1. All other Field data sheets are presented in Attachment B.

Ms. Becky Azevedo
Date: October 31, 2023

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: _Tino Robles_ Date: _10/10/2023_
Instrument: Gem 5000 Serial #: _G502468_
Atmospheric Temperature (Deg F): _81_
Barometric Pressure: _29.87_ Inch of HG
Wind Speed: _9 MPH_ Wind Direction: _North_
Weather Condition: _Sunny_

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:55AM	0	0.01	Ok	Ok	
KIRBP01B	8:58AM	0	0.00	Ok	Ok	
KIRBP02A	9:02AM	0	0.06	Ok	Ok	
KIRBP02B	9:05AM	0	0.05	Ok	Ok	
KIRBP03A	9:12AM	0	-0.00	Ok	Ok	
KIRBP03B	9:15AM	0	0.00	Ok	Ok	
KIRBP04A	9:20AM	0	-0.02	Ok	Ok	
KIRBP04B	9:23AM	0	-0.01	Ok	Ok	
KIRBP05A	9:27AM	0	0.00	Ok	Ok	
KIRBP05B	9:30AM	0	0.01	Ok	Ok	
KIRBP06A	9:36AM	0	-0.02	Ok	Ok	
KIRBP06B	9:39AM	0	0.02	Ok	Ok	
KIRBP07A	9:46AM	0	0.03	Ok	Ok	
KIRBP07B	9:49AM	0	0.04	Ok	Ok	
KIRBP08A	9:55AM	0	0.04	Ok	Ok	
KIRBP08B	9:58AM	0	-0.01	Ok	Ok	

Ms. Becky Azevedo
Date: October 31, 2023

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09A	10:06AM	0	-0.01	Ok	Ok	
KIRBP09B	10:09AM	0	0.04	Ok	Ok	
KIRBP10A	10:15AM	0	0.03	Ok	Ok	
KIRBP10B	10:18AM	0	0.02	Ok	Ok	
KIRBP011A	10:21AM	0	0.02	Ok	Ok	
KIRBP011B	10:24AM	0	-0.03	Ok	Ok	
KIRBP12A	8:48AM	0	-0.02	Ok	Ok	
KIRBP12B	8:51AM	0	0.03	Ok	Ok	
KIRBP14A	8:39AM	0	0.01	Ok	Ok	
KIRBP14B	8:42AM	0	0.01	Ok	Ok	
KIRBP15	8:31AM	0	0.00	Ok	Ok	

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

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

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 10-10-23**

Instrument: TVA **Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House	7:20 AM	0	
Admin Building	6:45 AM	0	
Operations Break Trailer	7:00 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane

Ms. Becky Azevedo
Date: October 31, 2023

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-5000 gas analyzer (GEM). The monitoring was conducted by Tino Robles on October 10, 2023. The static pressure of each probe was monitored using the GEM's internal pressure transducers and the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a TVA 1000 to monitor buildings and structures to check for the presence of methane on October 10, 2023. The instrument was calibrated on October 10, 2023, using 500 ppm 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. The most recent calibration was conducted by Tino Robles on October 10, 2023.

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	October 10, 2023
General conditions	Cloudy
Avg Wind Speed (mph)	8.7
Wind Direction	NNW
Barometric Pressure, (Inches of Hg)	29.86
Ambient Low/High (Temperature Deg F)	63/70

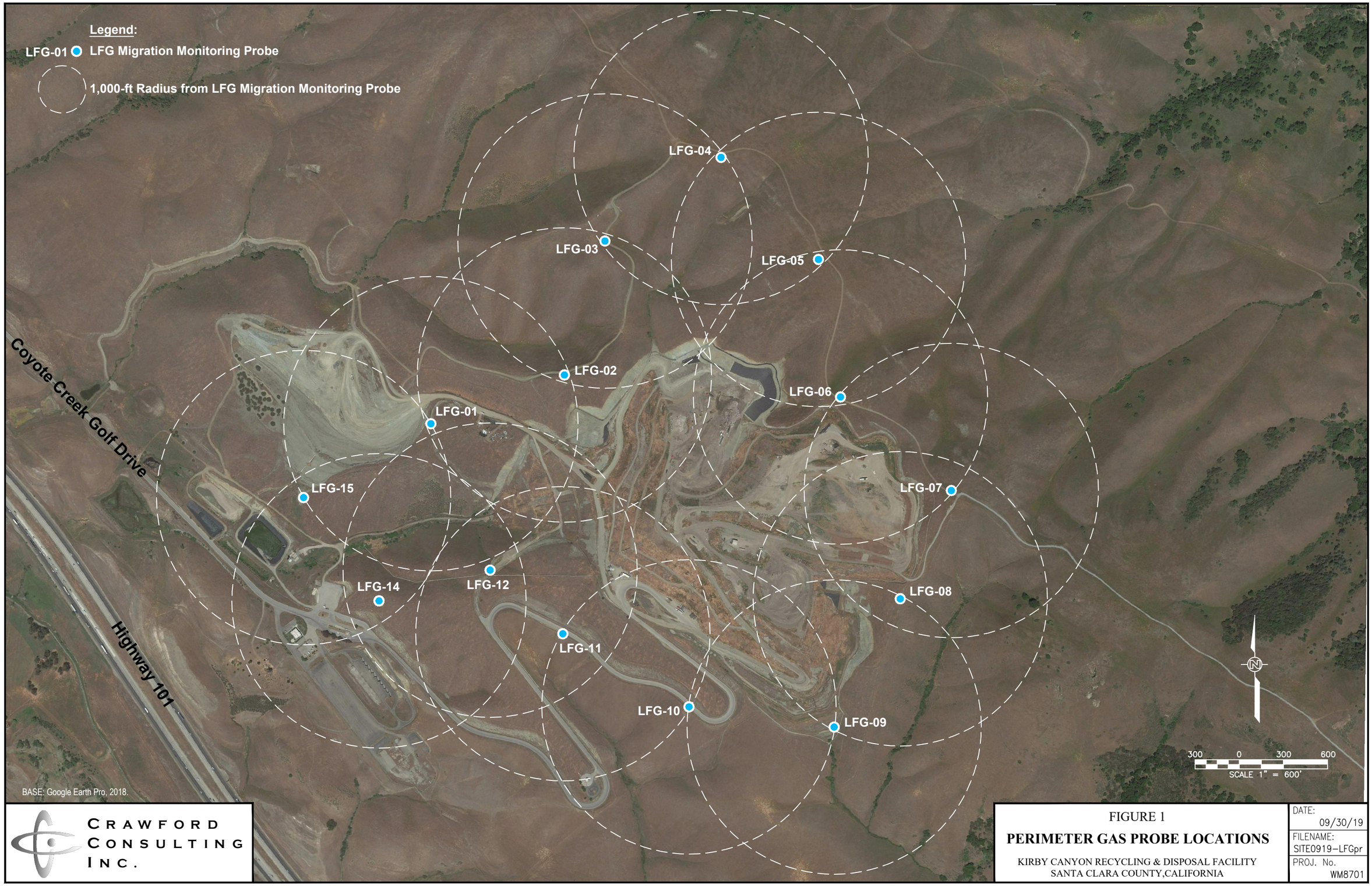
If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com

Thank you,
Waste Management,

Rajan Phadnis
EP Air Specialist- Northern California-Nevada
Attachments: Perimeter Gas Probe Location Map
KCRDF Field Data

ATTACHMENT A

SITE MAP



CRAWFORD CONSULTING INC.

FIGURE 1

PERIMETER GAS PROBE LOCATIONS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
SANTA CLARA COUNTY,CALIFORNIA

DATE: 09/30/19
FILENAME: SITE0919–LFGpr
PROJ. No. WM8701

ATTACHMENT B

STANDARD OPERATING PROCEDURE FOR PROBE MONITORING

Kirby Recycling and Disposal Facility

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 Kirby Recycling and Disposal Facility (KCRDF). In accordance with the current KCRDF LFG Migration Monitoring Plan, there are 15 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).

Ms. Becky Azevedo
Date: October 31, 2023

ATTACHMENT C

FIELD DATA

KCRDF Field Data October 10, 2023

Device Name	Date Time	CH4 (Methane)(%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen)(%)	Balance Gas(%)	Relative Pressure(''H2O)	Ambient Temperature(oF)	Barometric Pressure(''Hg)	Wind Direction	Wind Speed(mph)	Instrument ID	Field Technician
KIRBP015	10/10/2023 8:31	0	0.5	19.9	79.6	0	66	29.34	N	10	G502468	FROBLES
KIRBP01A	10/10/2023 8:55	0	0.4	21.0	78.6	0.01	66	29.03	N	10	G502468	FROBLES
KIRBP01B	10/10/2023 8:58	0	0.4	21.0	78.6	0	66	29.03	N	10	G502468	FROBLES
KIRBP02A	10/10/2023 9:02	0	0.3	21.0	78.7	0.06	66	28.85	N	10	G502468	FROBLES
KIRBP02B	10/10/2023 9:05	0	0.1	21.1	78.8	0.05	66	28.88	N	10	G502468	FROBLES
KIRBP03A	10/10/2023 9:12	0	0.0	21.1	78.9	0	66	28.73	N	10	G502468	FROBLES
KIRBP03B	10/10/2023 9:15	0	0.0	21.2	78.8	0	66	28.72	N	10	G502468	FROBLES
KIRBP04A	10/10/2023 9:20	0	0.0	21.2	78.8	-0.02	66	28.6	N	10	G502468	FROBLES
KIRBP04B	10/10/2023 9:23	0	0.0	21.1	78.9	-0.01	66	28.6	N	10	G502468	FROBLES
KIRBP05A	10/10/2023 9:27	0	0.1	21.2	78.7	0	66	28.59	N	10	G502468	FROBLES
KIRBP05B	10/10/2023 9:30	0	0.3	21.2	78.5	0.01	66	28.59	N	10	G502468	FROBLES
KIRBP06A	10/10/2023 9:36	0	0.2	21.3	78.5	-0.02	66	28.64	N	10	G502468	FROBLES
KIRBP06B	10/10/2023 9:39	0	0.1	21.3	78.6	0.02	66	28.65	N	10	G502468	FROBLES
KIRBP07A	10/10/2023 9:46	0	0.1	21.4	78.5	0.03	66	28.56	N	10	G502468	FROBLES
KIRBP07B	10/10/2023 9:49	0	0.4	19.5	80.1	0.04	66	28.56	N	10	G502468	FROBLES
KIRBP08A	10/10/2023 9:55	0	0.2	21.1	78.7	0.04	66	28.66	N	10	G502468	FROBLES
KIRBP08B	10/10/2023 9:58	0	0.2	21.2	78.6	-0.01	66	28.49	N	10	G502468	FROBLES
KIRBP09A	10/10/2023 10:06	0	0.1	21.2	78.7	-0.01	66	28.96	N	10	G502468	FROBLES
KIRBP09B	10/10/2023 10:09	0	0.1	21.2	78.7	0.04	66	28.96	N	10	G502468	FROBLES
KIRBP10A	10/10/2023 10:15	0	0.2	20.9	78.9	0.03	66	28.98	N	10	G502468	FROBLES
KIRBP10B	10/10/2023 10:18	0	0.2	20.8	79	0.02	66	28.98	N	10	G502468	FROBLES
KIRBP11A	10/10/2023 10:21	0	0.1	20.8	79.1	0.02	66	29.04	N	10	G502468	FROBLES
KIRBP11B	10/10/2023 10:24	0	0.1	20.5	79.4	-0.03	66	29.04	N	10	G502468	FROBLES
KIRBP12A	10/10/2023 8:48	0	0.4	20.9	78.7	-0.02	66	29.05	N	10	G502468	FROBLES
KIRBP12B	10/10/2023 8:51	0	0.4	21.0	78.6	0.03	66	29.05	N	10	G502468	FROBLES
KIRBP14A	10/10/2023 8:39	0	0.4	20.8	78.8	0.01	66	29.21	N	10	G502468	FROBLES
KIRBP14B	10/10/2023 8:42	0	0.4	20.8	78.8	0.01	66	29.21	N	10	G502468	FROBLES

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: _Tino Robles_ Date: _10/10/2023___
Instrument: Gem 5000_ Serial #: __G502468_
Atmospheric Temperature (Deg F): ___81__
Barometric Pressure: _29.87__Inch of HG
Wind Speed: _9 MPH____ Wind Direction: _North_
Weather Condition:_Sunny____

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:55AM	0	0.01	Ok	Ok	
KIRBP01B	8:58AM	0	0.00	Ok	Ok	
KIRBP02A	9:02AM	0	0.06	Ok	Ok	
KIRBP02B	9:05AM	0	0.05	Ok	Ok	
KIRBP03A	9:12AM	0	-0.00	Ok	Ok	
KIRBP03B	9:15AM	0	0.00	Ok	Ok	
KIRBP04A	9:20AM	0	-0.02	Ok	Ok	
KIRBP04B	9:23AM	0	-0.01	Ok	Ok	
KIRBP05A	9:27AM	0	0.00	Ok	Ok	
KIRBP05B	9:30AM	0	0.01	Ok	Ok	
KIRBP06A	9:36AM	0	-0.02	Ok	Ok	
KIRBP06B	9:39AM	0	0.02	Ok	Ok	
KIRBP07A	9:46AM	0	0.03	Ok	Ok	
KIRBP07B	9:49AM	0	0.04	Ok	Ok	
KIRBP08A	9:55AM	0	0.04	Ok	Ok	
KIRBP08B	9:58AM	0	-0.01	Ok	Ok	
KIRBP09A	10:06AM	0	-0.01	Ok	Ok	
KIRBP09B	10:09AM	0	0.04	Ok	Ok	
KIRBP10A	10:15AM	0	0.03	Ok	Ok	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP10B	10:18AM	0	0.02	Ok	Ok	
KIRBP011A	10:21AM	0	0.02	Ok	Ok	
KIRBP011B	10:24AM	0	-0.03	Ok	Ok	
KIRBP12A	8:48AM	0	-0.02	Ok	Ok	
KIRBP12B	8:51AM	0	0.03	Ok	Ok	
KIRBP14A	8:39AM	0	0.01	Ok	Ok	
KIRBP14B	8:42AM	0	0.01	Ok	Ok	
KIRBP15	8:31AM	0	0.00	Ok	Ok	

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

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

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 10-10-23**

Instrument: TVA **Serial #: 0928538411**

Monitored Location	Time	PPM	Comments
Scale House	7:20 AM	0	
Admin Building	6:45 AM	0	
Operations Break Trailer	7:00 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.

GAS DETECTOR CALIBRATION RECORD

LOCATION: KIRBY CANYON RECYCLING AND DISPOSAL FACILITY

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #2001

CALIBRATED BY / INSTRUMENT USED: Cal System Model# 26

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
Main Office	10-10-23	1500700086GAM	YES	Good Condition
Scale House	10-10-23	1819303476GCN	YES	Good Condition
Break Trailer	10-10-23	1819303478GCN	YES	Good Condition

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

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CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Date: 10/10/25

Time: 0630 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 928538411

Calibration Procedure

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

   Stable Reading = 505 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

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

Performed By: Rob S

RESPONSE TIME TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285380411

Measurement #1:

Stabilized Reading Using Calibration Gas: 499 ppm
90% of the Stabilized Reading: 501 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 501 ppm
90% of the Stabilized Reading: 500 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: 502 ppm
90% of the Stabilized Reading: 503 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 0 seconds (c)

Calculate Response Time:

$\frac{(a) + (b) + (c)}{3}$ = 5.0 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 10/10/23

Expiration Date (3 months): 1/10/24

Time: 0830 AM _____ PM

Instrument Make: Thermo Model: TVA1000B S/N: 9285384111

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 501 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 503 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1-2 % (must be < than 10%)

Performed By: RBB

Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
PO Box 1870
Morgan Hill, California 95037
T: 408.779.2206

August 21, 2023

Ms. Becky Azevedo
Kirby Canyon Recycling & Disposal Facility
910 Coyote Creek Golf Drive
San Jose, CA 95037

Re: Third Quarter 2023 Perimeter gas and Methane in Structure Monitoring Report
Kirby Canyon Recycling & Disposal Facility

Dear Ms. Azevedo:

This report for the "Kirby Canyon Recycling and Disposal Facility (KCRDF) Landfill" contains the results of the Third Quarter 2023 Perimeter Gas and Methane in Structure Monitoring conducted at the KCRDF. All monitoring was conducted by KCRDF 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.

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 any of the monitoring events.

Results for probes and are summarized in Table 1. All other Field data sheets are presented in Attachment B.

Ms. Becky Azevedo
Date: August 21, 2023

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: _Tino Robles_ Date: _7/24/2023_
Instrument: Gem 5000 Serial #: _G502468_
Atmospheric Temperature (Deg F): _81_
Barometric Pressure: _30.03_ Inch of HG
Wind Speed: _10 MPH_ Wind Direction: _North_
Weather Condition: _Sunny_

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:36AM	0	-0.05	Ok	Ok	
KIRBP01B	8:42AM	0	-0.02	Ok	Ok	
KIRBP02A	11:00AM	0	0.05	Ok	Ok	
KIRBP02B	11:05AM	0	0.04	Ok	Ok	
KIRBP03A	10:52AM	0	-0.05	Ok	Ok	
KIRBP03B	10:54AM	0	-0.01	Ok	Ok	
KIRBP04A	10:46AM	0	0.04	Ok	Ok	
KIRBP04B	10:48AM	0	0.02	Ok	Ok	
KIRBP05A	10:39AM	0	0.02	Ok	Ok	
KIRBP05B	10:41AM	0	0.01	Ok	Ok	
KIRBP06A	10:27AM	0	-0.04	Ok	Ok	
KIRBP06B	10:30AM	0	0.02	Ok	Ok	
KIRBP07A	10:15AM	0	0.02	Ok	Ok	
KIRBP07B	10:18AM	0	0.00	Ok	Ok	
KIRBP08A	9:56AM	0	-0.01	Ok	Ok	
KIRBP08B	9:59AM	0	-0.04	Ok	Ok	
KIRBP09A	9:38AM	0	-0.08	Ok	Ok	

Ms. Becky Azevedo
Date: August 21, 2023

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09B	9:40AM	0	-0.01	Ok	Ok	
KIRBP10A	9:09AM	0	-0.01	Ok	Ok	
KIRBP10B	9:12AM	0	-0.03	Ok	Ok	
KIRBP011A	9:04AM	0	-0.05	Ok	Ok	
KIRBP011B	9:06AM	0	-0.04	Ok	Ok	
KIRBP12A	8:47AM	0	-0.07	Ok	Ok	
KIRBP12B	8:50AM	0	-0.07	Ok	Ok	
KIRBP14A	8:55AM	0	-0.09	Ok	Ok	
KIRBP14B	8:58AM	0	-0.02	Ok	Ok	
KIRBP15	8:06AM	0	-0.04	Ok	Ok	

ND = No detection
California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

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

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 7-20-23**
Instrument: TVA **Serial #:0928538411**

Monitored Location	Time	PPM	Comments
Scale House	7:25 AM	0	
Admin Building	7:00 AM	0	
Operations Break Trailer	7:10 AM	0	

ND = No detection
Immediately notify compliance personnel of any readings in excess of 1.25 percent methane

Ms. Becky Azevedo
Date: August 21, 2023

MONITORING EQUIPMENT AND METHODOLOGY [TITLE 27 §20934(a)(4)]

Perimeter Gas Monitoring

The facility conducted the required monitoring using a CES-Landtec GEM-5000 gas analyzer (GEM). The monitoring was conducted by Tino Robles on July 24, 2023. The static pressure of each probe was monitored using the GEM's internal pressure transducers and the probes were monitored to determine methane concentration.

Facility Structures

Tino Robles used a TVA 1000 to monitor buildings and structures to check for the presence of methane on July 20, 2023. The instrument was calibrated on July 20, 2023, using 500 ppm 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. The most recent calibration was conducted by Tino Robles on July 20, 2023.

GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

General weather conditions are the time of monitoring are presented in Table 3.

Table 3 General Weather Conditions

Description	July 24, 2023
General conditions	Broken Clouds
Avg Wind Speed (mph)	3.7
Wind Direction	NNW
Barometric Pressure, (Inches of Hg)	29.86
Ambient Low/High (Temperature Deg F)	64/82

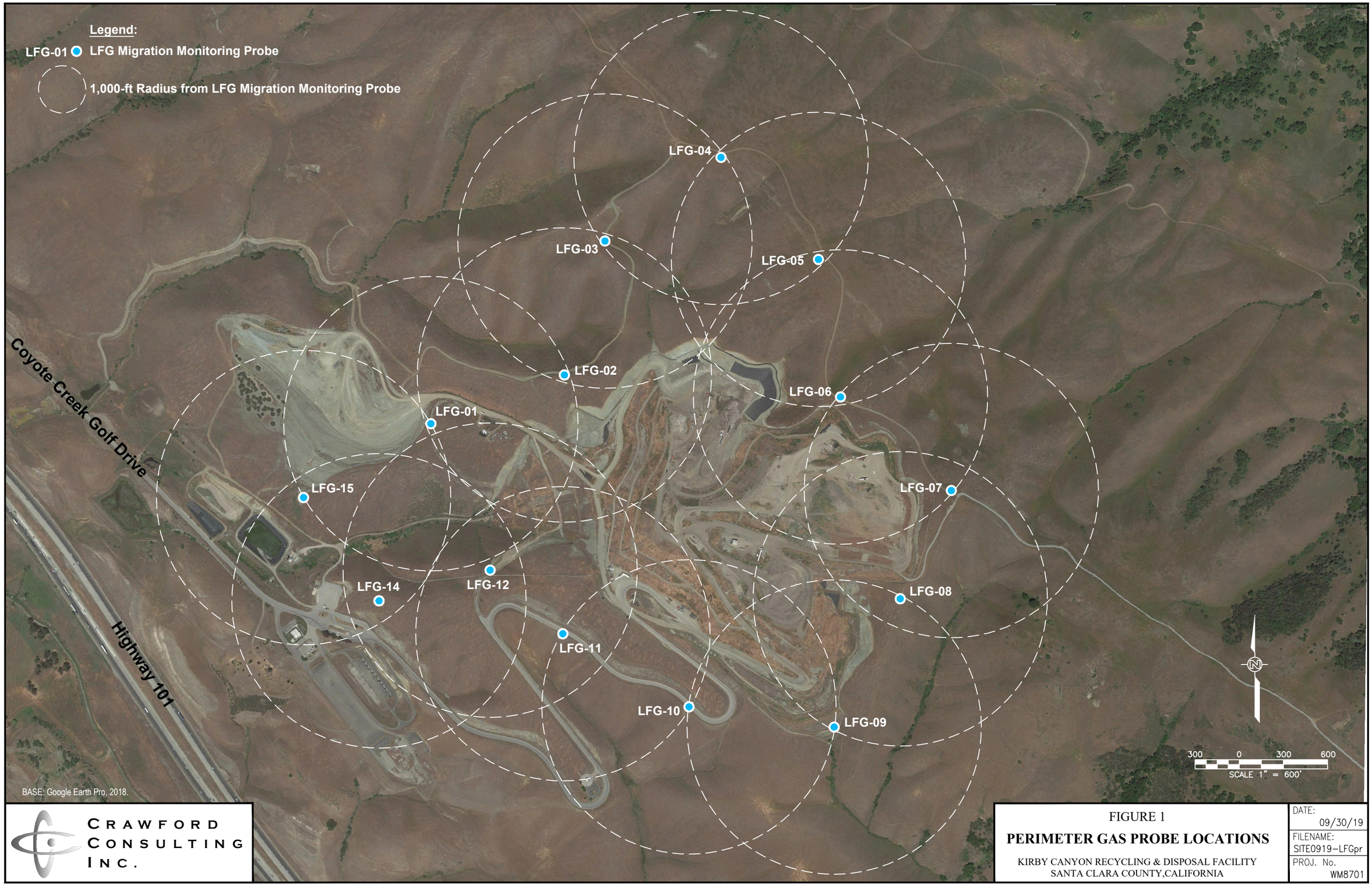
If you have any questions regarding this notification, please do not hesitate to contact me at rphadnis@wm.com

Thank you,
Waste Management,

Rajan Phadnis
EP Air Specialist- Northern California-Nevada
Attachments: Perimeter Gas Probe Location Map
KCRDF Field Data

ATTACHMENT A

SITE MAP



CRAWFORD CONSULTING INC.

FIGURE 1

PERIMETER GAS PROBE LOCATIONS

KIRBY CANYON RECYCLING & DISPOSAL FACILITY
SANTA CLARA COUNTY,CALIFORNIA

DATE: 09/30/19
FILENAME: SITE0919–LFGpr
PROJ. No. WM8701

ATTACHMENT B

STANDARD OPERATING PROCEDURE FOR PROBE MONITORING

Kirby Recycling and Disposal Facility

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 Kirby Recycling and Disposal Facility (KCRDF). In accordance with the current KCRDF LFG Migration Monitoring Plan, there are 15 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).

Ms. Becky Azevedo
Date: August 21, 2023

ATTACHMENT C

FIELD DATA

KCRDF-Field Data Summary-July 24, 2023

Device Name	Date Time	CH4 (Methane)(%)	CO2 (Carbon Dioxide)(%)	O2 (Oxygen)(%)	Balance Gas(%)	Relative Pressure ("H2O)	Ambient Temperature (oF)	Barometric Pressure("Hg)	Wind Direction	Wind Speed(mph)	Instrument ID	Field Technician
KIRBP015	7/24/2023 8:06	0	0.1	20.3	79.6	-0.04	81	29.49	N	10	G502468	FROBLES
KIRBP01A	7/24/2023 8:36	0	0.5	20.2	79.3	-0.05	81	29.48	N	10	G502468	FROBLES
KIRBP01B	7/24/2023 8:42	0	0.5	20.3	79.2	-0.02	81	29.22	N	10	G502468	FROBLES
KIRBP02A	7/24/2023 11:00	0	0.3	19.9	79.8	0.05	81	29.06	N	10	G502468	FROBLES
KIRBP02B	7/24/2023 11:05	0	0.2	20	79.8	0.04	81	29.06	N	10	G502468	FROBLES
KIRBP03A	7/24/2023 10:52	0	0.3	20	79.7	-0.05	81	28.93	N	10	G502468	FROBLES
KIRBP03B	7/24/2023 10:54	0	0.2	20.1	79.7	-0.01	81	28.93	N	10	G502468	FROBLES
KIRBP04A	7/24/2023 10:46	0	0.4	20	79.6	0.04	81	28.8	N	10	G502468	FROBLES
KIRBP04B	7/24/2023 10:48	0	0.4	20	79.6	0.02	81	28.81	N	10	G502468	FROBLES
KIRBP05A	7/24/2023 10:39	0	0.4	19.6	80	0.02	81	28.81	N	10	G502468	FROBLES
KIRBP05B	7/24/2023 10:41	0	0.4	20	79.6	0.01	81	28.81	N	10	G502468	FROBLES
KIRBP06A	7/24/2023 10:27	0	0.3	20.4	79.3	-0.04	81	28.85	N	10	G502468	FROBLES
KIRBP06B	7/24/2023 10:30	0	0.7	18.9	80.4	0.02	81	28.85	N	10	G502468	FROBLES
KIRBP07A	7/24/2023 10:15	0	0.5	20	79.5	0.02	81	28.76	N	10	G502468	FROBLES
KIRBP07B	7/24/2023 10:18	0	0.3	20.1	79.6	0	81	28.76	N	10	G502468	FROBLES
KIRBP08A	7/24/2023 9:56	0	0.3	20.3	79.4	-0.01	81	28.87	N	10	G502468	FROBLES
KIRBP08B	7/24/2023 9:59	0	0.4	20	79.6	-0.04	81	28.87	N	10	G502468	FROBLES
KIRBP09A	7/24/2023 9:38	0	0.5	20	79.5	-0.08	81	29.16	N	10	G502468	FROBLES
KIRBP09B	7/24/2023 9:40	0	0.3	20.4	79.3	-0.01	81	29.16	N	10	G502468	FROBLES
KIRBP10A	7/24/2023 9:09	0	0.2	20.3	79.5	-0.01	81	29.18	N	10	G502468	FROBLES
KIRBP10B	7/24/2023 9:12	0	0.7	19.9	79.4	-0.03	81	29.18	N	10	G502468	FROBLES
KIRBP11A	7/24/2023 9:04	0	0.3	20	79.7	-0.05	81	29.24	N	10	G502468	FROBLES
KIRBP11B	7/24/2023 9:06	0	0.2	20.2	79.6	-0.04	81	29.24	N	10	G502468	FROBLES
KIRBP12A	7/24/2023 8:47	0	0.5	20.3	79.2	-0.07	81	29.25	N	10	G502468	FROBLES
KIRBP12B	7/24/2023 8:50	0	0.4	20.4	79.2	-0.07	81	29.24	N	10	G502468	FROBLES
KIRBP14A	7/24/2023 8:55	0	0.2	20.1	79.7	-0.09	81	29.41	N	10	G502468	FROBLES
KIRBP14B	7/24/2023 8:58	0	0.2	20.1	79.7	-0.02	81	29.41	N	10	G502468	FROBLES

Kirby Canyon Recycling and Disposal Facility
Perimeter Gas Monitoring Probe Results

Analyst: _Tino Robles_ Date: _7/24/2023___
Instrument: Gem 5000_ Serial #: __G502468_
Atmospheric Temperature (Deg F): ___81__
Barometric Pressure: _30.03__Inch of HG
Wind Speed: _10 MPH___ Wind Direction: _North_
Weather Condition:_Sunny_

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:36AM	0	-0.05	Ok	Ok	
KIRBP01B	8:42AM	0	-0.02	Ok	Ok	
KIRBP02A	11:00AM	0	0.05	Ok	Ok	
KIRBP02B	11:05AM	0	0.04	Ok	Ok	
KIRBP03A	10:52AM	0	-0.05	Ok	Ok	
KIRBP03B	10:54AM	0	-0.01	Ok	Ok	
KIRBP04A	10:46AM	0	0.04	Ok	Ok	
KIRBP04B	10:48AM	0	0.02	Ok	Ok	
KIRBP05A	10:39AM	0	0.02	Ok	Ok	
KIRBP05B	10:41AM	0	0.01	Ok	Ok	
KIRBP06A	10:27AM	0	-0.04	Ok	Ok	
KIRBP06B	10:30AM	0	0.02	Ok	Ok	
KIRBP07A	10:15AM	0	0.02	Ok	Ok	
KIRBP07B	10:18AM	0	0.00	Ok	Ok	
KIRBP08A	9:56AM	0	-0.01	Ok	Ok	
KIRBP08B	9:59AM	0	-0.04	Ok	Ok	
KIRBP09A	9:38AM	0	-0.08	Ok	Ok	
KIRBP09B	9:40AM	0	-0.01	Ok	Ok	
KIRBP10A	9:09AM	0	-0.01	Ok	Ok	

Probe ID	Time	CH_4 (%)	Probe Pressure (in-H_20)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP10B	9:12AM	0	-0.03	Ok	Ok	
KIRBP011A	9:04AM	0	-0.05	Ok	Ok	
KIRBP011B	9:06AM	0	-0.04	Ok	Ok	
KIRBP12A	8:47AM	0	-0.07	Ok	Ok	
KIRBP12B	8:50AM	0	-0.07	Ok	Ok	
KIRBP14A	8:55AM	0	-0.09	Ok	Ok	
KIRBP14B	8:58AM	0	-0.02	Ok	Ok	
KIRBP15	8:06AM	0	-0.04	Ok	Ok	

ND = No detection

California Code of Regulations Title 27, Division 2, Chapter 3, Article 6, §20921 require that:

(1) The concentration of methane gas must not exceed 1.25 percent by volume in air within any portion of any on-site structures.

(2) The concentration of methane gas migrating from the disposal site must not exceed 5 percent by volume in air at the disposal site permitted facility boundary or an alternative boundary approved in accordance with §20925.

Note: The reading should not exceed 25% LEL = 1.25% CH_4 = 12,500 ppm CH_4

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

STRUCTURE FID MONITORING DATA

Analyst: Tino Robles **Date: 7-20-23**

Instrument: TVA **Serial #: 0928538411**

Monitored Location	Time	PPM	Comments
Scale House	7:25 AM	0	
Admin Building	7:00 AM	0	
Operations Break Trailer	7:10 AM	0	

ND = No detection

Immediately notify compliance personnel of any readings in excess of 1.25 percent methane.

GAS DETECTOR CALIBRATION RECORD

LOCATION: KIRBY CANYON RECYCLING AND DISPOSAL FACILITY

MANUFACTURER & MODEL NUMBER: Sierra Monitor Corporation Model #2001

CALIBRATED BY / INSTRUMENT USED: Cal System Model# 26

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
Main Office	7-20-23	1500700086GAM	YES	Good Condition
Scale House	7-20-23	1819303476GCN	YES	Good Condition
Break Trailer	7-20-23	1819303478GCN	YES	Good Condition

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

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CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

LANDFILL NAME: _

INSTRUMENT MAKE: Thermo MODEL: TVA1000B S/N: 092853841 1

Calibration Procedure

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

2. Introduce the calibration gas into the probe.
Stable reading = 503 ppm

3. Adjust meter to read 500 ppm.

Background Determination Procedure

1. Upwind Reading (highest in 30 seconds): 3 ppm (1)

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

Calculate Background Value:

$$\frac{(1) + (2)}{2}$$

Background = 2.5 ppm

PERFORMED BY: Tino Rellis TIME: 0800 AM _____ PM

DATE: 7/20/23

RESPONSE TIME TEST RECORD

Date: 6/30/23 9/30/23

Expiration Date (3 months): _____

Time: _____ AM 1228 PM

Instrument Make: Thermo Model: TVA1000B S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 8 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: 497 ppm
90% of the Stabilized Reading: 476 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: 501 ppm
90% of the Stabilized Reading: 464 ppm
Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

$\frac{(a)+(b)+(c)}{3}$ = 8 seconds (must be less than 30 seconds)

Performed By: Robles

CALIBRATION PRECISION TEST RECORD

Date: 9/30/23

Expiration Date (3 months): 9/30/23

Time: _____ AM 1228 PM

Instrument Make: Thermo Model: TVA1000B S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: 0 ppm (a)

Meter Reading for Calibration Gas: 502 ppm (b)

Measurement #2:

Meter Reading for Zero Air: 0 ppm (c)

Meter Reading for Calibration Gas: 500 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 504 ppm (f)

Calculate Precision:

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

1.5 % (must be < than 10%)

Performed By: [signature]

APPENDIX O

A-12 FLARE PERFORMANCE TEST SUMMARY OF RESULTS

Kirby Canyon Recycling and Disposal Facility

BAAQMD Facility # 1812

Compliance Test Report #23070

Landfill Gas Flare A-12

Located at:
Kirby Canyon Recycling and Disposal Facility
910 Coyote Creek Drive
Morgan Hill, CA 95037

Prepared for:
SCS Engineers
3117 Fite Circle, Suite 108
Sacramento, CA 95827
Attn: Maria Bowen
mbowen@scsengineers.com

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

Testing Performed on:
March 3, 2023

Final Report Submitted on:
April 18, 2023

Performed and Reported by:
Blue Sky Environmental, Inc.
2273 Lobert Street
Castro Valley, CA 94546
Office (510) 508-3469/Mobile (810) 923-3181
bluesky@blueskyenvironmental.com

REVIEW AND CERTIFICATION

Team Leader:

The work performed herein was conducted under my supervision, and I certify that:

a) the details and results contained within this report are to the best of my knowledge an authentic and accurate representation of the test program,

b) that the sampling and analytical procedures and data presented in the report are authentic and accurate,

c) that all testing details and conclusions are accurate and valid, and

d) that the production rate and/or heat input rate during the source test are reported accurately.

If this report is submitted for compliance purposes, it should only be reproduced in its entirety. If there are any questions concerning this report, please contact me at (810) 923-3181.

Chuck Arrivas, QSTI

President

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 Waste Management of California, Inc. at the Kirby Canyon Recycling and Disposal Facility in Morgan Hill, California. Testing was conducted to demonstrate that Landfill Gas Flare A-12 is operating in compliance with Condition 1437 of the Bay Area Air Quality Management District (BAAQMD) Permit to Operate for Facility 1812.

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:	Kirby Canyon Recycling and Disposal Facility (KCRDF) 910 Coyote Creek Drive, Morgan Hill, CA 95037
Source Contact:	Maria Bowen, SCS Engineers (619) 455-9518
Source Tested:	Flare A-12 – 124 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
Source Test Date:	March 3, 2023
Test Objective:	Determine compliance with condition 1437 of the Bay Area Air Quality Management District (BAAQMD) permit to operate for Plant 1812; 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 jrios@blueskyenvironmental.com
Test Parameters:	Landfill Gas O_2, N_2, CO_2, BTU, THC, CH_4, NMOC, HHV, F-Factor, sulfur and VOC species, volumetric flow rate Flare Emissions THC, CH_4, NMOC, NO_X, CO, O_2, SO_2, moisture, volumetric flow rate.

Table 1-2 Compliance Summary

Condensate ON

Emission Parameter	Average Results (Flare A-12)	Permit Limit	Compliance Status
NO_X, lb/MMBtu	0.0488	0.06	In Compliance
CO, lb/MMBtu	0.0763	0.3	In Compliance
SO_2, ppmvd	45.4	300	In Compliance
NMOC, ppmvd @ 3% O_2	<2.5	30	In Compliance
NMOC Destruction Efficiency, %	>99.01%	>98%	In Compliance
CH_4 Destruction Efficiency, %	>99.97%	>99%	In Compliance

Condensate OFF

Emission Parameter	Average Results (Flare A-12)	Permit Limit	Compliance Status
NO_X, lb/MMBtu	0.0379	0.06	In Compliance
CO, lb/MMBtu	0.0413	0.3	In Compliance
SO_2, ppmvd	47.3	300	In Compliance
NMOC, ppmvd @ 3% O_2	<2.5	30	In Compliance
NMOC Destruction Efficiency, %	>98.84%	>98%	In Compliance
CH_4 Destruction Efficiency, %	>99.97%	>99%	In Compliance

SECTION 2. SOURCE TEST PROGRAM

2.1. Overview

This annual source test was performed to demonstrate that Landfill Gas Flare A-12 is operating in accordance with Condition 1437 of the Bay Area Air Quality Management District (BAAQMD) Permit to Operate for Facility #1812 and BAAQMD Regulation 8, Rule 34. This testing also satisfies the compliance requirements outlined in the State Landfill Methane Gas Rule under AB32 for Flare performance.

2.2. Pollutants Tested

The following U.S. Environmental Protection Agency (EPA) and ASTM International sampling and analytical methods were used:

EPA Method 1	Sample and Traverse Point Determination
EPA Method 3A	O_2 and CO_2, Stack Gas Molecular Weight
EPA Method 10	CO
EPA Method 7E	NO_X and NO_2 Converter Check
EPA Method 4	Moisture Calculation
EPA Method 19	Flow Rate Calculation DSCFM
EPA Method 25A	VOC Emissions
EPA Method 25C	TNMHC (NMOC) in fuel
ASTM D-1945/3588	BTU, F-Factor and Fixed Gases in Fuel
ASTM D-5504	Sulfur Species, Hydrogen Sulfide (H_2S) and TRS
EPA Method TO-15	Toxic Organic Compounds

2.3. Test Date

Testing was conducted on March 3, 2023.

2.4. Sampling and Observing Personnel

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

Tino Robles and James Dutra of Waste Management (WM) were present to operate the flare and assist in coordinating testing and the collection of process data during testing. David Ortiz of SCS Engineers was also on-site to assist with the test program.

BAAQMD was notified of the scheduled testing in a source test plan submitted by SCS Engineers on behalf of Waste Management on January 18, 2023 (revised February 24, 2023). No agency observers from the district were present during the test program. A copy of the source test protocol is provided in Appendix I.

2.5. Source/Process Description

Kirby Canyon Recycling and Disposal Facility, located in San Jose, California, is a multi-material landfill with a gas collection system that is abated by an industrial landfill gas flare. Flare A-12

has a 124 MMBtu/hr multiple nozzle burner. The flare shell is 50 feet high and 12.5 feet in diameter. The inside diameter (ID) is approximately 138 inches.

The flare temperature set-point is established at 1,490 °F. Methane quality typically ranges from 46 - 52%, with an oxygen content of ≤1.5%. Landfill gas condensate that is collected is periodically injected into the flare via one vertical nozzle positioned near the burner.

2.6. Source Operating Conditions

The flare was operated on landfill gas under normal operating conditions during testing with the condensate injection both on and off. The condensate injection rate averaged 1.00 gallons per minute (gpm) while in the "on" position.

The average exhaust temperature at normal operating condition was 1,482 °F. The LFG flow rate ranged from 1,917 to 1,952 SCFM. The operating exhaust temperature, and LFG flow rate records are provided in Appendix F.

Landfill gas samples collected at the head of the flare had an average methane content of 46.6% and an oxygen content of 2.4%.

SECTION 3. SAMPLING AND ANALYSIS PROCEDURES

3.1. Port Location

Sampling was conducted at the 50-foot exhaust stack of the flare through ports that were accessed with a 60-foot boom lift. The four 4-inch flange ports were located 45 feet above grade, approximately four 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. The traverse points for the 138-inch diameter stack with 4-inch ports were 8.4, 18.5, 30.8, 48.6, 97.4, 115.2, 127.5 and 137.6 inches. O_2 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 conducted for oxides of nitrogen (NO_X), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO_2), oxygen (O_2), 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. A NOx analyzer converter efficiency check was performed before the first test run and achieved an efficiency greater than 90%.

Concurrent with the exhaust sampling, Blue Sky collected a total of six 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, CA. The samples were collected in 6-liter SUMMA canisters and analyzed for hydrocarbons by EPA Method 25, sulfur species (including H_2S and TRS) by ASTM D-5504, toxic organic compounds by EPA Method TO-15 (AP-42 2.4-1), and HHV, F-factor, fixed gases, volatile organic compounds (VOCs), nonmethane organic compounds (NMOCs) and C^1-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 (NO_2) concentrations are determined by passing the sample through a catalyst which reduces the NO_2 to NO. The total oxides of nitrogen concentration (NO_2 + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO_X analyzer NO_2 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.

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.
301.

EPA Method 25A – Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer

This method is used to measure total hydrocarbons, methane, and non-methane hydrocarbons in stationary source emissions using a gas chromatograph with a flame ionization detector (GC/FID). Heated Teflon sample gas transfer lines are used to provide a continuous sample to the heated GC/FID hydrocarbon analyzer. Heated lines are used to avoid moisture or hydrocarbon condensation.

The sampling and analytical system is checked for linearity with zero, low (25-35%), mid (45-55%), and high (80-90%) span calibrations. All calibrations during testing are performed

externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test.

EPA Method 25C – Determination of Nonmethane Organic Compounds (NMOC) in Landfill Gas

This method is used to sample and measure NMOC in landfill gases. Gases are collected in a pre-evacuated 6-Liter SUMMA canister with pre-set flow controller set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days. The sample gas is drawn by the canister vacuum through a micro-filter, pre-set orifice flow controller and on/off valve into the canister. The canister vacuum is monitored with a vacuum gauge to verify sample collection. The flow controller consists of capillary orifice tubing designed to sample for a pre-set duration of 0.5 hrs. The sample is injected into a GC column where the methane and CO_2 are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO_2 then reduced to methane and analyzed.

ASTM D1945 – Analysis of Natural Gas by Gas Chromatography

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed within 7 days.

EPA Compendium Method TO-15 – Determination of Toxic Organic Compounds in Ambient Air

This method is used to measure volatile organic compounds that are included in the hazardous air pollutants (HAPs) listed in Title III of the Clean Air Act Amendments of 1990 by GC/MS (gas chromatography/mass spectroscopy). Samples are collected in pre-evacuated 6-Liter SUMMA canisters with pre-set flow controllers set to integrate over the desired test duration. The SUMMA® passivated canisters allow holding times up to 14 days for the TO-15 Method list of volatile organics. 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 consisted of capillary orifice tubing designed to sample for a pre-set duration of 0.75hrs.

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
TECO Model 48C	CO	Gas Filter Correlation/IR
TECO Model 55C	$NMOC/CH_4$	Flame Ionization (FID)
Servomex Model 1440	CO_2	Infrared (IR)
Servomex Model 1440	O_2	Paramagnetic

3.6. System Performance Criteria

The analyzer data recording system consists of a Honeywell DPR300 strip chart recorder, supported by a data acquisition system (DAS). The instrument response was recorded on strip charts and DAS. The averages were corrected for drift using BAAQMD and EPA Method 7E equations. All system performance criteria were met.

Instrument Linearity	≤2% Full Scale
Instrument Bias	≤5% Full Scale
System Response Time	≤± 2 minutes
NO_X Converter Efficiency *(EPA Method 7E)*	≥ 90%
Instrument Zero Drift	≤± 3% Full Scale
Instrument Span Drift	≤± 3% Full Scale

3.7. 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 from the flare comply with the permit limits.

Blue Sky Environmental has reviewed this report for accuracy and concluded that the test procedures were followed and accurately described and documented. The review included the following items:

Review of the general text
Review of calculations
Review of CEMS data
Review of supporting documentation

The services described in this report were performed in a manner consistent with the generally accepted professional testing principles and practices. No other warranty, expressed or implied, is made. These services were performed in a manner consistent with our agreement with our client. The report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions contained in this report pertain to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and operating parameters indicated. We are not responsible for the impacts of any changes in environmental standards,

practices, or regulations subsequent to this, and do not warranty the accuracy of information supplied by others.

SECTION 4. APPENDICES

A. **Tabulated Results**

B. **Calculations**

C. **Laboratory Reports**

D. **Field Data Sheets**

E. **Strip Charts**

F. **Process Information**

G. **QC Calibration Certificates and Quality Assurance Records**

H. **Sample Train Configuration and Stack Diagrams**

I. **Related Correspondence (Source Test Plan and Email)**

J. **BAAQMD Permit Conditions**

K. **Flare Flow Meter Calibration Records**

A
Tabulated Results

TABLE #1

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - ON

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	3/3/23	3/3/23	3/3/23		
Test Time	0948-1022	1051-1126	1210-1248		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,483	1,482	1,482	1,482	
Fuel:					
Condensate Injection, gpm	0.99	1.00	1.00	1.00	
Fuel Flow Rate, SCFM	1,917	1,917	1,928	1,921	
Fuel Heat Input, MMBtu/hr	55.1	56.2	56.4	55.9	
Stack Gas:					
Exhaust Flow Rate, DSCFM *(EPA Method 19)*	24,670	23,664	23,082	23,805	
Oxygen (O_2), % volume dry	13.5	13.1	12.9	13.2	
Carbon Dioxide (CO_2), % volume dry	6.87	7.02	7.11	7.00	
Water Vapor (H_2O), % volume *(EPA Method 4)*	7.75	6.97	8.75	7.82	
NO, NO_2 and NO_X Emissions (calculated as NO_2):					
NO, ppmvd	9.0	7.4	2.7	6.4	
NO_2, ppmvd	<1.0	<1.0	<1.0	<1.0	
NO_2/NO	<0.111	<0.135	<0.371	<0.206	
NOx, ppmvd	16.1	15.4	16.6	16.0	
NOx, ppmvd @ 15% O_2	12.9	11.7	12.2	12.3	
NOx, lb/hr	2.83	2.61	2.74	2.73	
NOx, lb/MMBtu	0.0514	0.0464	0.0486	0.0488	0.06
CO Emissions:					
CO, ppmvd	47.0	32.2	44.2	41.1	
CO, ppmvd @ 15% O_2	37.7	24.3	32.4	31.5	
CO, lb/hr	5.04	3.31	4.43	4.26	
CO, lb/MMBtu	0.0914	0.0589	0.0787	0.0763	0.3
SO_2 Emissions:					
Total Reduced Sulfurs as H_2S, ppmvd in Fuel	517	589	580	562	
SO_2, ppmvd *(calculated)*	40.2	47.7	48.4	45.4	300
Methane (CH_4) Emissions:					
CH_4, ppmvd wet *(EPA Method 25A)*	<10.0	<10.0	<10.0	<10.0	
CH_4, ppmvd dry	<10.8	<10.8	<10.8	<10.8	
CH_4, lb/hr	<0.664	<0.637	<0.621	<0.641	
NMOC Emissions (calculated as CH_4):					
NMOC, ppmv wet *(EPA Method 25A)*	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O_2	<2.6	<2.5	<2.4	<2.5	30*
NMOC, lb/hr	<0.066	<0.064	<0.062	<0.064	
THC Emissions (reported as CH_4):					
THC, ppmvd *(Sum NMOC + CH4)*	<11.9	<11.9	<11.9	<11.9	
THC, lb/hr	<0.730	<0.700	<0.683	<0.705	
Inlet Hydrocarbons (calculated as CH_4):					
Inlet CH_4, ppmvd	466,000	474,000	474,000	471,333	
Inlet CH_4, lb/hr	2,218	2,256	2,269	2,247	
CH_4 Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet NMOC *(EPA Method 25C)*	1,270	1,359	1,467	1,365	
Inlet NMOC, lb/hr	6.04	6.47	7.02	6.51	
NMOC Destruction Efficiency, %	>98.90%	>99.02%	>99.12%	>99.01%	>98%*
Inlet THC, ppmvd	467,270	475,359	475,467	472,699	
Inlet THC, lb/hr	2,224	2,262	2,276	2,254	
THC Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

* NMOC emission limits are 30 ppmvd @ 3% O_2 or destruction efficiency >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 foot per minute
NO_X = oxides of nitrogen, reported as NO_2 (MW = 46)
CO = carbon monoxide (MW = 28)
CH_4 = methane (MW = 16)
THC = total hydrocarbons reported as CH_4 (MW = 16)
NMOC = non-methane organic compounds reported as CH_4 (MW = 16)

CALCULATIONS:

ppm @ 15% O_2 = ppm · 5.9 / (20.9 - %O_2)
ppm @ 3% O_2 = ppm · 17.9 / (20.9 - %O_2)
lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R
lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9/(20.9 - %O_2)
Destruction Efficiency = (inlet, lb/hr- outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range
TRS = total reduced sulfurs, reported as sulfur dioxide (SO_2)

TABLE #2
Landfill Gas Characterization

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - ON

Parameter	Units	Run 1	Run 2	Run 3	Average Results
Test Date		3/3/23	3/3/23	3/3/23	-
Acrylonitrile	ppb	<40.8	<52.1	<44.8	<45.9
Bromodichloromethane	ppb	<40.8	<52.1	<44.8	<45.9
Carbon Tetrachloride	ppb	<40.8	<52.1	<44.8	<45.9
Chlorobenzene	ppb	93.0	<52.1	<44.8	<63.3
Chlorodifluoromethane	ppb	171	170	178	173
Chloromethane	ppb	<40.8	<52.1	<44.8	<45.9
Chloroethane	ppb	71.8	40.8	63.7	58.8
Chloroform	ppb	<40.8	<52.1	<44.8	<45.9
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<40.8	<52.1	<44.8	<45.9
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<40.8	<52.1	<44.8	<45.9
1,2 Dichloroethane (Ethylene Dichloride)	ppb	77.5	67.7	78.0	74.4
1,2 Dichloropropane	ppb	<40.8	<52.1	<44.8	<45.9
1,4 Dichlorobenzene	ppb	503	468	559	510
Dichlorodifluoromethane	ppb	64.4	40.8	64.6	56.6
Dichlorofluoromethane	ppb	<40.8	<52.1	<44.8	<45.9
1,4 Dioxane	ppb	<81.6	<104	<89.7	<91.8
Ethanol	ppb	16,400	20,300	23,300	20,000
Ethylbenzene	ppb	2,690	2,630	2,800	2,707
Ethlyene Dibromide (1,2 Dibromoethane)	ppb	<40.8	<52.1	<44.8	<45.9
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	<40.8	<52.1	<44.8	<45.9
Hexane	ppb	273	236	280	263
Isopropyl Alcohol (IPA)	ppb	5,500	6,080	7,040	6,207
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	12,000	9,550	13,300	11,617
Methylene Chloride	ppb	<81.6	<104	<89.7	<91.8
Methyl isobutyl ketone (MiBK)	ppb	589	555	621	588
Perchloroethylene (Tetrachloroethylene)	ppb	<40.8	<52.1	<44.8	<45.9
1,1,1 Trichlororethane	ppb	<40.8	<52.1	<44.8	<45.9
1,1,2,2 Tetrachloroethane	ppb	<40.8	<52.1	<44.8	<45.9
trans-1,2-Dichloroethane	ppb	<40.8	<52.1	<44.8	<45.9
Trichloroethylene (Trichloroethene)	ppb	<40.8	<52.1	<44.8	<45.9
Vinyl Chloride	ppb	<40.8	<52.1	<44.8	<45.9
Xylenes	ppb	5,750	5,490	6,010	5,750
Ethane	ppm	<0.8	<1.0	<0.9	<0.9
Propane	ppm	25.9	12.8	25.3	21.3
Butane	ppm	6.50	6.80	7.50	6.93
Pentane	ppm	11.9	9.3	13.0	11.4
Carbon Disulfide	ppm	0.181	0.267	0.278	0.242
Carbonyl Sulfide (COS/SO_2)	ppm	<0.082	<0.104	<0.090	<0.092
Dimethyl Sulfide	ppm	2.98	2.96	3.15	3.03
Ethyl Mercaptan	ppm	0.268	0.360	0.365	0.331
Methyl Mercaptan	ppm	7.20	7.130	5.23	6.52
Hydrogen Sulfide (H_2S)	ppm	501	572	566	546
Total Reduced Sulfurs as H_2S	ppm	517	589	580	562

TABLE #3

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - OFF

Parameter	Run 1	Run 2	Run 3	Average Results	Permit Limits
Test Date	3/3/23	3/3/23	3/3/23		
Test Time	1344-1424	1446-1519	1548-1621		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,484	1,482	1,483	1,483	
Fuel:					
Condensate Injection, gpm	0.00	0.00	0.00	0.00	
Fuel Flow Rate, SCFM	1,943	1,948	1,952	1,948	
Fuel Heat Input, MMBtu/hr	56.9	53.7	55.8	55.5	
Stack Gas:					
Exhaust Flow Rate, DSCFM *(EPA Method 19)*	23,648	23,279	25,286	24,071	
Oxygen (O_2), % volume dry	13.0	13.3	13.6	13.3	
Carbon Dioxide (CO_2), % volume dry	7.04	6.78	6.64	6.82	
Water Vapor (H_2O), % volume *(EPA Method 4)*	5.53	2.13	2.32	3.33	
NO, NO_2 and NO_X Emissions (calculated as NO_2):					
NO, ppmvd	6.8	6.8	6.9	6.8	
NO_2, ppmvd	<1.0	<1.0	<1.0	<1.0	
NO_2/NO	<0.147	<0.147	<0.145	<0.146	
NOx, ppmvd	12.7	12.0	12.0	12.2	
NOx, ppmvd @ 15% O_2	9.5	9.4	9.7	9.5	
NOx, lb/hr	2.1	2.0	2.2	2.1	
NOx, lb/MMBtu	0.0377	0.0372	0.0387	0.0379	0.06
CO Emissions:					
CO, ppmvd	20.3	29.1	16.5	21.9	
CO, ppmvd @ 15% O_2	15.1	22.6	13.4	17.1	
CO, lb/hr	2.08	2.94	1.81	2.28	
CO, lb/MMBtu	0.0366	0.0547	0.0325	0.0413	0.3
SO_2 Emissions:					
Total Reduced Sulfurs as H_2S, ppmvd in Fuel	609	568	573	583	
SO_2, ppmvd *(calculated)*	50.0	47.5	44.2	47.3	300
Methane (CH_4) Emissions:					
CH_4, ppmvd wet *(EPA Method 25A)*	<10.0	<10.0	<10.0	<10.0	
CH_4, ppmvd dry	<10.6	<10.6	<10.6	<10.6	
CH_4, lb/hr	<0.621	<0.612	<0.664	<0.633	
NMOC Emissions (calculated as CH_4):					
NMOC, ppmv wet *(EPA Method 25A)*	<1.0	<1.0	<1.0	<1.0	
NMOC, ppmvd	<1.1	<1.1	<1.1	<1.1	
NMOC, ppmvd @ 3% O_2	<2.4	<2.5	<2.6	<2.5	30*
NMOC, lb/hr	<0.062	<0.061	<0.066	<0.063	
THC Emissions (reported as CH_4):					
THC, ppmvd *(Sum NMOC + CH4)*	<11.6	<11.6	<11.6	<11.6	
THC, lb/hr	<0.684	<0.673	<0.731	<0.696	
Inlet Hydrocarbons (calculated as CH_4):					
Inlet CH_4, ppmvd	474,000	446,000	463,000	461,000	
Inlet CH_4, lb/hr	2,286	2,157	2,244	2,229	
CH_4 Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet NMOC *(EPA Method 25C)*	1,045	1,181	1,165	1,130	
Inlet NMOC, lb/hr	5.04	5.71	5.65	5.47	
NMOC Destruction Efficiency, %	>98.77%	>98.93%	>98.82%	>98.84%	>98%*
Inlet THC, ppmvd	475,045	447,181	464,165	462,130	
Inlet THC, lb/hr	2,291	2,162	2,249	2,234	
THC Destruction Efficiency, %	>99.97%	>99.97%	>99.97%	>99.97%	

* NMOC emission limits are 30 ppmvd @ 3% O_2 or destruction efficiency >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 foot per minute
NO_X = oxides of nitrogen, reported as NO_2 (MW = 46)
CO = carbon monoxide (MW = 28)
CH_4 = methane (MW = 16)
THC = total hydrocarbons reported as CH_4 (MW = 16)
NMOC = non-methane organic compounds reported as CH_4 (MW = 16)

CALCULATIONS:

ppm @ 15% O_2 = ppm · 5.9 / (20.9 - %O_2)
ppm @ 3% O_2 = ppm · 17.9 / (20.9 - %O_2)
lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R
lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9/(20.9 - %O_2)
Destruction Efficiency = (inlet, lb/hr- outlet, lb/hr) / inlet, lb/hr

< Value = 2% of Analyzer Range
TRS = total reduced sulfurs, reported as sulfur dioxide (SO_2)

TABLE #4

Landfill Gas Characterization

Kirby Canyon Recycling & Disposal Facility
Flare A-12
Condensate - OFF

Parameter	Units	Run 1	Run 2	Run 3	Average Results
Test Date		3/3/23	3/3/23	3/3/23	-
Acrylonitrile	ppb	<47.5	<47.7	<47.7	<47.6
Bromodichloromethane	ppb	<47.5	<47.7	<47.7	<47.6
Carbon Tetrachloride	ppb	<47.5	<47.7	<47.7	<47.6
Chlorobenzene	ppb	88.4	82.1	73.5	81.3
Chlorodifluoromethane	ppb	159	148	132	146
Chloromethane	ppb	<47.5	<47.7	<47.7	<47.6
Chloroethane	ppb	62.7	63.0	<47.7	57.8
Chloroform	ppb	<47.5	<47.7	<47.7	<47.6
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<47.5	<47.7	<47.7	<47.6
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<47.5	<47.7	<47.7	<47.6
1,2 Dichloroethane (Ethylene Dichloride)	ppb	75.1	65.8	58.2	66.4
1,2 Dichloropropane	ppb	<47.5	<47.7	<47.7	<47.6
1,4 Dichlorobenzene	ppb	493	477	447	472
Dichlorodifluoromethane	ppb	55.9	56.3	48.7	53.6
Dichlorofluoromethane	ppb	<47.5	<47.7	<47.7	<47.6
1,4 Dioxane	ppb	<95.1	<95.4	<95.4	<95.3
Ethanol	ppb	25,400	26,700	25,900	26,000
Ethylbenzene	ppb	2,710	2,570	2,270	2,517
Ethlyene Dibromide (1,2 Dibromoethane)	ppb	<47.5	<47.7	<47.7	<47.6
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	<47.5	<47.7	<47.7	<47.6
Hexane	ppb	265	246	201	237
Isopropyl Alcohol (IPA)	ppb	6,740	6,230	5,580	6,183
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	9,390	8,750	7,750	8,630
Methylene Chloride	ppb	<95.1	<95.4	<95.4	<95.3
Methyl isobutyl ketone (MiBK)	ppb	589	559	459	536
Perchloroethylene (Tetrachloroethylene)	ppb	<47.5	<47.7	<47.7	<47.6
1,1,1 Trichlororethane	ppb	<47.5	<47.7	<47.7	<47.6
1,1,2,2 Tetrachloroethane	ppb	<47.5	<47.7	<47.7	<47.6
trans-1,2-Dichloroethane	ppb	<47.5	<47.7	<47.7	<47.6
Trichloroethylene (Trichloroethene)	ppb	<47.5	<47.7	<47.7	<47.6
Vinyl Chloride	ppb	<47.5	<47.7	<47.7	<47.6
Xylenes	ppb	5,770	5,470	4,810	5,350
Ethane	ppm	<1.0	<1.0	<1.0	<1.0
Propane	ppm	13.3	11.9	10.8	12.0
Butane	ppm	7.1	5.0	5.4	5.8
Pentane	ppm	14.1	10.3	12.7	12.4
Carbon Disulfide	ppm	0.149	0.334	0.160	0.214
Carbonyl Sulfide (COS/SO_2)	ppm	<0.095	<0.095	<0.095	<0.095
Dimethyl Sulfide	ppm	3.00	2.73	2.76	2.83
Ethyl Mercaptan	ppm	0.294	0.223	0.193	0.237
Methyl Mercaptan	ppm	5.35	4.760	5.04	5.05
Hydrogen Sulfide (H_2S)	ppm	596	556	561	571
Total Reduced Sulfurs as H_2S	ppm	609	568	573	583

APPENDIX P

A-12 FLARE 12-MONTH SULFUR DIOXIDE EMISSIONS LOG

12-MONTH CONSECUTIVE SOx Emission Rate (Tons/Year) :2023 Part

Kirby Canyon Recycling & Disposal Facility

Plant #1812, Condition 1437 Item 20

Month	SO_2 (Tons/Month)	SO_2 (12- Months Tons)
July-23	3.7	26.6
August-23	3.9	28.8
September-23	3.6	30.9
October-23	3.3	32.5
November-23	3.5	34.4
December-23	4.4	37.2

Pursuant to Title V Permit A1812, Condition Number 25301 Part 20, the Sulfur dioxide emissions from Flare A-12 shall not exceed 300 ppmv of SO2 and sulfur dioxide emissions from A-12 shall not exceed 94.9 tons per year.

To demonstrate compliance with above limits, the site will conduct annual testing of total TRS at the landfill gas main header. The most recent TRS value will be used to calculate the monthly SO2 emissions in tons.

Appendix P includes table with SO_2 12-month tons during the reporting period. The sulfur dioxide emissions from A-12 did not exceed 94.9 tons per year.