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ENFORCEMENT: 07/29/2024

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July 25, 2024

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San Francisco, CA 94105  
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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 January 1, 2024, through June 30, 2024, to the Bay Area Air Quality Management District (BAAQMD) and the United States Environmental Protection Agency (USEPA), Region IX. As required by 40 Code of Federal Regulations (CFR) Part 63 Subpart AAAA, the Semi-Annual Startup, Shutdown and Malfunction (SSM) Report is also enclosed. The Combined Title V Semi-Annual and Partial 8-34 Annual Report satisfies the requirements of the Title V Permit listed in 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

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

Michael Tejero  
Responsible Official

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**

**January 1, 2024, through June 30, 2024**

Submitted on:  
July 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  
San Francisco, CA 94105  
Attn: Title V Reports**

and

**USEPA, Region 9  
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Attn: Director Enforcement Division, TRI & Air Section (ENF-2-1)**

Prepared by:



Kirby Canyon Recycling & Disposal Facility

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# 1 INTRODUCTION

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## 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 January 1, 2024, through June 30, 2024. During the timeframe included in this report from January 1, 2024, through June 30, 2024, 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 February 14, 2024. 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 February 14, 2024, 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 January 1, 2024, through June 30, 2024. 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 January 1, 2024, through June 30, 2024, is 31.0 hours. The downtime for the partial 2024 calendar year is 31.0 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 nine (9) 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 partial 2024 calendar year (January 1, 2024,



through June 30, 2024) is 31.0 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 March 6, 2024 (RCA Number RCA 200227), March 30, 2024 (RCA Number 200259), and April 8, 2024 (RCA Number 200267), caused due to unplanned utility power interruption. 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 and 1,412°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, and February 14, 2024, 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:

- January 25, 2024
- February 8 and 26, 2024
- March 7, 11, and 26, 2024
- April 10, 19, and 26, 2024
- May 16, 22 and 28, 2024
- June 25, 2024

During the reporting period, site technician noted few locations with erosion, surface cracks and ponding. 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:

- First Quarter 2024 – January 16, 2024
- Second Quarter 2024 – April 24, 2024

A Thermo Scientific Toxic Vapor Analyzer 1000 (TVA1000) flame ionization detector (FID) was used to perform the SEM during the First and Second Quarter 2024 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 First and Second Quarter 2024 monitoring events, the monitoring equipment was calibrated using zero air and 500 parts per million by volume (ppmv) methane (CH<sub>4</sub>) calibration gas.

The First Quarter 2024 routine SEM was performed on January 16, 2024, and six (6) exceedances (FID readings greater than 500 ppm CH<sub>4</sub> above background measurements) were detected. The ten-day re-monitoring event was conducted on January 23, 2024, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on February 12, 2024, and no exceedances were detected.

The Second Quarter 2024 SEM was performed on April 24, 2024, and seven (7) exceedances (FID readings greater than 500 ppm CH<sub>4</sub> above background measurements) were detected. Corrective actions were completed. The ten-day re-monitoring event was conducted on April 24, 2024, and no further exceedances were detected. The thirty-day follow-up monitoring event was conducted on May 17, 2024, and no exceedances were detected. The First and Second Quarter 2024 SEM Reports are included in Appendix F.

## 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:

- First Quarter 2024 – January 10, 2024
- Second Quarter 2024 – April 24, 2024

A Thermo Scientific TVA1000 FID was used to perform both the First and Second Quarter 2024 component leak testing events. No exceedances of 1,000 ppm were identified during the First and Second Quarter 2024 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 January 1, 2024, through June 30, 2024. The current waste-in-place figure includes solid waste placed in the landfill through June 30, 2024. 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
January 1, 2024, through June 30, 2024	100,588 tons
Current Waste-In-Place as of June 30, 2024	Approximately 8.62 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 January 1, 2024, through June 30, 2024, 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<sub>2</sub>) concentration in each wellhead shall be less than 5 percent (%) by volume.

The wellhead monitoring was performed on the following dates:

- January 5, 8, 10, 23, and 25, 2024
- February 6, 9, 12, and 13, 2024
- March 5, 6, 11, 12, and 27, 2024
- April 9, 10, 11, 12, 15, 16, and 24, 2024
- May 6, 7, 8, 9, 10, and 14, 2024
- June 3, 4, 5, 6, 10, and 14, 2024

### **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 January 1, 2024, through June 30, 2024. 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 January 1, 2024, through June 30, 2024, 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 – January 1, 2024, through June 30, 2024**

Emission Control Device	Average Flow (scfm)	Methane (%)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heat Input (MMBTU)
A-12 Flare	2,058	47.6	535,427,022	254,818,721	258,131

*scfm = standard cubic feet per minute CH<sub>4</sub> = methane % = percent scf = standard cubic feet  
\*Methane concentration from March 3, 2023 and February 14, 2024, Source Tests 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 January 1, 2024, through June 30, 2024. 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)
January-24	2.6	80,846	802,017
February-24	2.3	65,252	796,111

Month	Average Condensate Injection Rate (gpm)	Monthly Condensate Injection Throughput (gallons)	Condensate Injection Throughput 12-Month Total (gallons)
March-24	2.4	64,364	784,028
April-24	2.6	60,932	771,643
May-24	1.8	57,774	756,516
June-24	2.0	48,981	736,625

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. No new vertical wells were started.

As of June 30, 2024, the GCCS system consists of 89 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 0.0 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, July 1, 2023, through June 30, 2024. S-8 operated a total of 9 hours during the 6-month reporting period, January 1, 2024, through June 30, 2024. S-8 used a total of approximately 27 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<sub>2</sub> (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 14, 2024) TRS value was used to calculate the monthly SO<sub>2</sub>

emissions in tons. The SO<sub>2</sub> emission did not exceed limit during the reporting period. The SO<sub>2</sub> 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 February 14, 2024, 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<sub>x</sub>) 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 2024 Source Test Report was submitted to the BAAQMD on April 11, 2024, 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 – February 14, 2024**

Condition	Flare (A-12) Average Results		8-34-301.3 limit	Compliance Status
	Condensate ON	Condensate OFF		
NMOC (ppmv @ 3% O <sub>2</sub> , as CH <sub>4</sub> )	<2.5	<2.5	30 ppmv	In Compliance
NO <sub>x</sub> , lbs/MMBTU	0.0439	0.0383	0.06	In Compliance
CO, lbs/MMBTU	0.0704	0.0619	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 2,058 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:

- First Quarter 2024 – February 27, 2024
- Second Quarter 2024 – April 11 and 17, 2024

All probes were in compliance with no detections above the 5.0 percent methane limit during the First and Second Quarter 2024 monitoring events. There were no LFG migration occurrences at the KCRDF, and no areas of concern were identified during the First and Second Quarter 2024 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

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### 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 (January 1, 2024-June 30, 2024). The following information is included as required:

- During the reporting period, thirty (30) 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, nine (9) wellfield SSM events occurred. Details are included in the Wellfield SSM Log, located in Appendix C.
- During the reporting period, there was one (1) zero monitoring/recorder equipment SSM events occurred.
- In all forty (40) 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.***

*Mike Tejero*

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

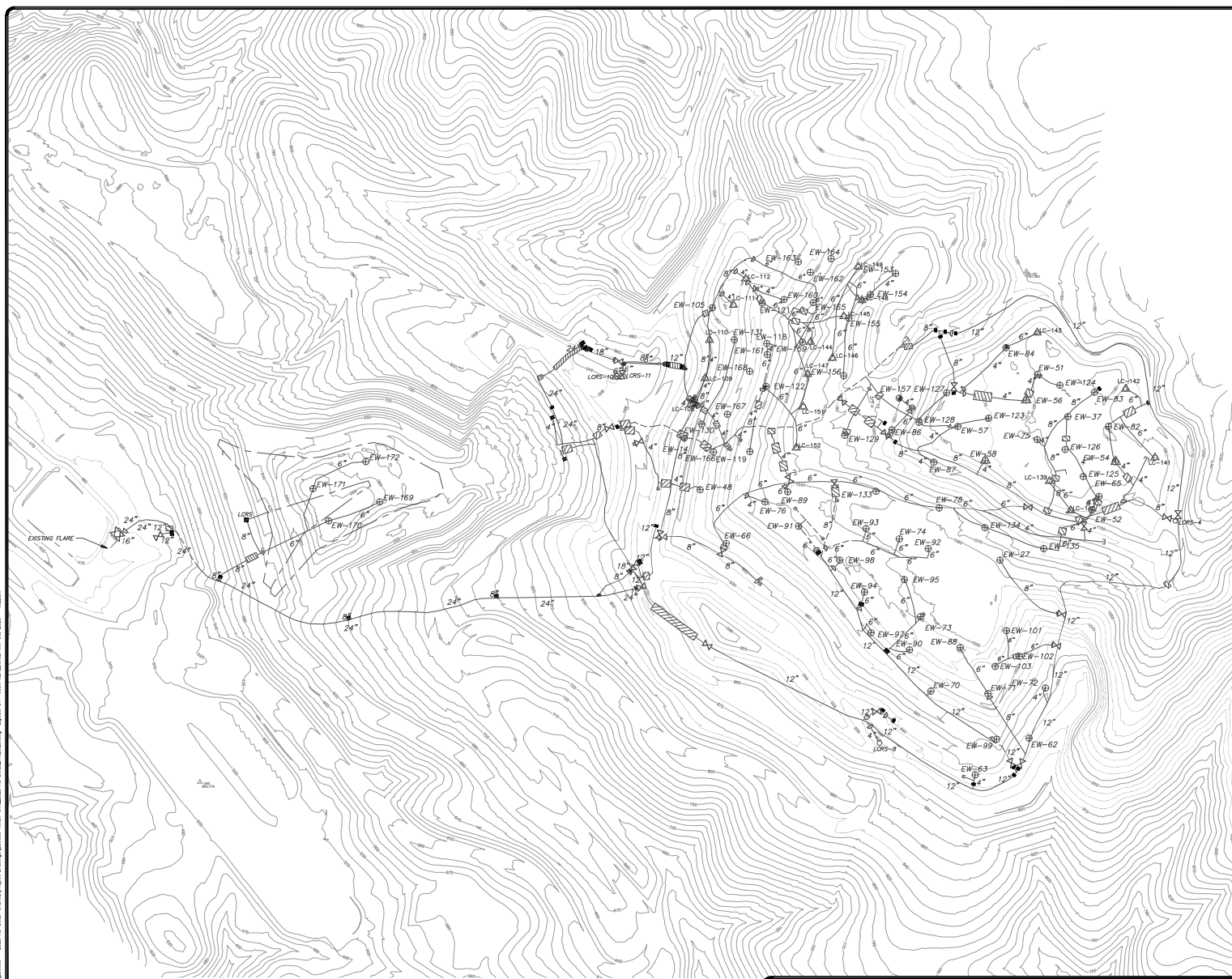
**07.25.2024**  
\_\_\_\_\_  
**Date**

**Michael Tejero**  
\_\_\_\_\_  
**Name of Responsible Official**

## **APPENDIX A**

### **LANDFILL GAS COLLECTION SYSTEM SITE MAP**

P:\2023\23-0001\23-0001.dwg, 2023-11-30 10:00:00 AM, User: WALKER, Plot: 2023-11-30 10:00:00 AM, Plot Device: HP DesignJet T1100e, Plot Style: WMA.dwt, Plot Date: 2023-11-30 10:00:00 AM, Plot Time: 10:00:00 AM, Plot User: WALKER



**LEGEND**

- 1400— EXISTING 10' CONTOUR
- 12"— EXISTING ABOVEGROUND PIPING
- - -12"- 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



**NOTES:**

1. TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPH: 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, 2018.
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**



REV	DATE	DESCRIPTION	DNW BY	DES BY	CHK BY	APP BY
1	11/30/23	DATE OF ISSUE		KT	AMN	
		DRAWN BY		CME		
		DESIGNED BY			PUS	



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

SHEET NO.  
**1**  
 PROJECT NO.  
 230053

## **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 January 1 through June 30, 2024												
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 Mafunction Event	1/10/24 23:34	1/10/24 23:38	0.07	0.5	Flare shutdown due to low temperature alarm. Flare auto restarted. Flare was inspected during morning hours.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/10/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/11/24 00:02	1/11/24 00:08	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/11/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/19/24 09:14	1/19/24 09:18	0.07	0.5	Flare shutdown during planned power outage (PPO) event. Emergency generator was started. PQ&E later canceled the PPO and scheduled for next month. Power was switched back to utility power and flare was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/19/2024	Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/19/24 09:42	1/19/24 09:48	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/19/2024	Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/22/24 08:08	1/22/24 08:12	0.07	0.4	Flare was shut down for flowmeter maintenance. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/22/24 08:32	1/22/24 08:38	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/22/24 08:36	1/22/24 08:40	0.07	0.03	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/22/24 08:38	1/22/24 08:44	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/22/24 08:40	1/22/24 08:44	0.07	0.1	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/22/24 08:46	1/22/24 08:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/22/24 08:48	1/22/24 08:52	0.07	0.1	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/22/24 08:52	1/22/24 08:58	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/22/24 16:14	1/22/24 16:18	0.07	0.3	Flare shutdown due to low temperature alarm. Flare auto restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/22/24 16:34	1/22/24 16:40	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Mafunction Event	1/22/24 16:56	1/22/24 17:00	0.07	0.4	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	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Mafunction Event	1/22/24 17:20	1/22/24 17:26	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/22/2024	Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	

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

Completed By: Rajan Phadnis/Tino Robles

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA												
SSMP REPORT - From January 1 through June 30, 2024												
Identify Flare & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	1/23/24 11:10	1/23/24 11:14	0.07	0.8	Flare was shut down during annual flare inspection and maintenance. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/23/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	1/23/24 11:56	1/23/24 12:02	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/23/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	1/29/24 17:50	1/29/24 17:54	0.07	1.9	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	1/29/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	1/29/24 19:46	1/29/24 19:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	1/29/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/02/24 08:52	2/02/24 08:56	0.07	0.3	Flare was shut down to switch to generator power during planned PG&E outage. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/02/24 09:08	2/02/24 09:14	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/02/24 12:08	2/02/24 12:12	0.07	0.3	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	2/2/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/02/24 12:26	2/02/24 12:32	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/02/24 12:28	2/02/24 12:32	0.07	0.1	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/02/24 12:34	2/02/24 12:40	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/02/24 12:36	2/02/24 12:40	0.07	0.1	Flare shutdown during startup sequence. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/02/24 12:42	2/02/24 12:48	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/02/24 13:22	2/02/24 13:26	0.07	0.4	Flare was shut down 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	2/2/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/02/24 13:46	2/02/24 13:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/2/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/04/24 05:44	2/04/24 05:48	0.07	0.6	Flare shutdown due to low temperature alarm during high wind condition. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/4/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/04/24 06:20	2/04/24 06:26	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/4/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event x Shutdown Event Malfunction Event	2/04/24 06:38	2/04/24 06:42	0.07	3.1	Flare shutdown due to low temperature alarm. Flare switched to generator power as a safety measure during high wind conditions. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/4/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) X No (Stop)	
Component: A-12 Flare x Startup Event Shutdown Event Malfunction Event	2/04/24 09:46	2/04/24 09:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/4/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	

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

Completed By: Rajan Phadnis/Tino Robles

KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA												
SSMP REPORT - From January 1 through June 30, 2024												
Identify Flare & Check Applicable Event	(1) Start of Event	(2) End of Event	(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	2/08/24 07:22	2/08/24 07:26	0.07	0.2	Flare was shut down 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	2/8/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	2/08/24 07:32	2/08/24 07:38	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	2/8/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	3/06/24 15:12	3/06/24 15:16	0.07	1.5	Flare shutdown during unplanned power surge event. RCA was filed. RCA number 200227 was assigned. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/6/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	3/06/24 16:42	3/06/24 16:48	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/6/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	3/07/24 07:22	3/07/24 07:26	0.07	1.7	Flare was shut down during maintenance on KOP. Demister pad was replaced. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/7/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	3/07/24 09:04	3/07/24 09:10	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/7/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	3/30/24 17:14	3/30/24 17:18	0.07	1.5	Flare shutdown during unplanned power surge event. RCA was filed. RCA number 200259 was assigned. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/30/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	3/30/24 18:46	3/30/24 18:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	3/30/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/07/24 20:30	4/07/24 20:34	0.07	1.3	Flare shutdown during unplanned power surge event. RCA was filed. RCA number 200267 was assigned. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/7/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 3	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/07/24 21:46	4/07/24 21:52	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/7/2024	X Manual (Go to Section 9) Automatic (Go to Section 11)	Procedure No. 1 to 4	X Yes (Go to Section 11) No (Stop)	Yes (Go to Section 12) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/09/24 09:14	4/09/24 09:18	0.07	0.3	Flare was shut down during PC&E planned power outage. Generator was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/9/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/09/24 09:32	4/09/24 09:38	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/9/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/09/24 15:42	4/09/24 15:46	0.07	0.2	Flare was shut down to switched back flare to utility power. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/9/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/09/24 15:54	4/09/24 16:00	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/9/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/11/24 09:44	4/11/24 09:48	0.07	0.5	Flare was shut down for planned site electrical work. Generator was started. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/11/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/11/24 10:14	4/11/24 10:20	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/11/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/11/24 11:42	4/11/24 11:46	0.07	0.2	Flare was shutdown to switch back flare to utility power. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/11/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 3	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) No (Stop)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	4/11/24 11:56	4/11/24 12:02	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	4/11/2024	X Manual (Go to Section 8) Automatic (Go to Section 10)	Procedure 1 to 4	X Yes (Go to Section 10) No (Stop)	Yes (Go to Section 11) 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 January 1 through June 30, 2024**

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	5/31/24 11:46	5/31/24 11:50	0.07	2.2	Flare shutdown due to low temperature alarm. Flare restarted. Flare was inspected on next business day.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	5/31/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	5/31/24 13:58	5/31/24 14:04	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	5/31/2024	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 Shutdown Event Malfunction Event	6/03/24 16:28	6/03/24 16:32	0.07	1.7	Flare shutdown due to low temperature alarm. Adjusted louvers. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/3/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	6/03/24 18:10	6/03/24 18:16	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/3/2024	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 Shutdown Event Malfunction Event	6/18/24 15:14	6/18/24 15:18	0.07	1.2	Flare shutdown due to low temperature alarm. Adjusted louvers. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/18/2024	Manual (Go to Section 9)	Procedure No. 1 to 3	Yes (Go to Section 11)	Yes (Go to Section 12)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	6/18/24 16:28	6/18/24 16:34	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/18/2024	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 Shutdown Event Malfunction Event	6/26/24 08:26	6/26/24 08:30	0.07	8.6	Flare was shut down during installation of ATS unit by third party. Power was shut down. Flare was inspected and restarted.	X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/26/2024	Manual (Go to Section 8)	Procedure 1 to 3	Yes (Go to Section 10)	Yes (Go to Section 11)	
Component: A-12 Flare Startup Event Shutdown Event Malfunction Event	6/26/24 17:00	6/26/24 17:06	0.10			X 113: Inspection and Maintenance 116: Well Raising 117: Gas Collection 118: Construction Activities	6/26/2024	Automatic (Go to Section 10)	Procedure 1 to 4	Yes (Go to Section 10) X No (Stop)	Yes (Go to Section 11) No (Stop)	

TOTAL DOWNTIME Partial 2024 (HOURS):	31.0
TOTAL DOWNTIME From January 1 2024 through June 30, 2024 (HOURS):	31.0
TOTAL PERMITTED GCCS DOWNTIME FOR 1 YEAR (HOURS):	240.0
TOTAL AVAILABLE RUNTIME From January 1 2024 through June 30, 2024	4367.0
TOTAL RUNTIME From January 1 2024 through June 30, 2024 (HOURS):	4336.0
RUNTIME PERCENTAGE From January 1 2024 through June 30, 2024(HOURS) :	99.3%
SSM Counts :	30

\*There were 743 hours in March 2024, 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
<b>LFG Collection and Control System</b>				
Blower or Other Gas Mover Equipment	Applies vacuum to wellfield to extract LFG and transport to control device	Loss of LFG Flow/Blower Malfunction	-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
<b>LFG Collection and Control System</b>				
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 arrester 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 occurred. 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 January 1 2024 through June 30, 2024																
Identify Well & Check Applicable Event	(1) Start of Event Date and Time	(2) End of Event Date and Time	(3) Duration of Event (Hours)	(4) Duration Shutdown (Hours)	(5) Cause or Reason	(6) Applicable 8-34 Exemption	(7) Date Form Completed	(8) Type of Event (Startup and Shutdown Events Only)	(9) Procedures Used	(10) Did Steps Taken Vary From Section 9?	(11) Did Event Cause Any Emission Limit Exceedance	(12) Describe Emission Standard(s) Exceeded				
Well ID Number:94 X Startup Event X Shutdown Event Malfunction Event	1/09/24 08:15	1/09/24 08:17	0.03	1,873.5	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	1/9/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:94 X Startup Event X Shutdown Event Malfunction Event	3/27/24 09:45	3/27/24 09:47	0.03			X 113: Inspection and Maintenance 116: Well Raising	3/27/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:98 X Startup Event X Shutdown Event Malfunction Event	1/05/24 08:00	1/05/24 08:02	0.03	3,123.0	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	1/5/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:98 X Startup Event X Shutdown Event Malfunction Event	5/14/24 12:00	5/14/24 12:02	0.03			X 113: Inspection and Maintenance 116: Well Raising	5/14/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:93 X Startup Event X Shutdown Event Malfunction Event	5/14/24 10:30	5/14/24 10:32	0.03	356.5	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	5/14/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:93 X Startup Event X Shutdown Event Malfunction Event	5/29/24 08:00	5/29/24 08:02	0.03			X 113: Inspection and Maintenance 116: Well Raising	5/29/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:95 X Startup Event X Shutdown Event Malfunction Event	12/21/23 07:00	12/21/23 07:02	0.03	4,228.0	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	12/21/2023	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:95 X Startup Event X Shutdown Event Malfunction Event	6/14/24 12:00	6/14/24 12:02	0.03			X 113: Inspection and Maintenance 116: Well Raising	6/14/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:74 X Startup Event X Shutdown Event Malfunction Event	5/14/24 11:00	5/14/24 11:02	0.03	525.7	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	5/14/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:74 X Startup Event X Shutdown Event Malfunction Event	6/05/24 09:45	6/05/24 09:47	0.03			X 113: Inspection and Maintenance 116: Well Raising	6/5/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:125 X Startup Event X Shutdown Event Malfunction Event	6/05/24 07:10	6/05/24 07:12	0.03	192.8	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	6/5/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:125 X Startup Event X Shutdown Event Malfunction Event	6/13/24 09:00	6/13/24 09:02	0.03			X 113: Inspection and Maintenance 116: Well Raising	6/13/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:126 X Startup Event X Shutdown Event Malfunction Event	6/05/24 08:25	6/05/24 08:27	0.03	120.9	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	6/5/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:126 X Startup Event X Shutdown Event Malfunction Event	6/10/24 10:20	6/10/24 10:22	0.03			X 113: Inspection and Maintenance 116: Well Raising	6/10/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:92 X Startup Event X Shutdown Event Malfunction Event	5/24/24 09:00	5/24/24 09:02	0.03	240.5	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	5/24/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:92 X Startup Event X Shutdown Event Malfunction Event	6/03/24 10:30	6/03/24 10:32	0.03			X 113: Inspection and Maintenance 116: Well Raising	6/3/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:133 X Startup Event X Shutdown Event Malfunction Event	6/03/24 12:25	6/03/24 12:27	0.03	658.6	Well Located in Active Filling Area. Well Raised.	X 113: Inspection and Maintenance 116: Well Raising	6/3/2024	X Manual (Go to Section 9)	Procedure No. 1 to 3	X	Yes (Go to Section 11)	Yes (Go to Section 12)				
Well ID Number:133 X Startup Event X Shutdown Event Malfunction Event	6/30/24 23:59	7/01/24 00:01	0.03			X 113: Inspection and Maintenance 116: Well Raising	6/30/2024	X Manual (Go to Section 9)	Procedure No. 1 to 4	X	Yes (Go to Section 11)	Yes (Go to Section 12)				

From January 1 2024 through June 30, 2024 SSM Counts : 9



**(a) STANDARD OPERATING PROCEDURES**

**Shutdown**

<u>Procedure No.</u>	<u>Procedure</u>
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**

<u>Procedure No.</u>	<u>Procedure</u>
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
<b>LFG Collection and Control System</b>				
Blower or Other Gas Mover Equipment	Applies vacuum to wellfield to extract LFG and transport to control device	Loss of LFG Flow/Blower Malfunction	-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
<b>LFG Collection and Control System</b>				
LFG Control Device	Combusts LFG	Loss of Flame	<ul style="list-style-type: none"> <li>-Problems/failure of thermocouple</li> <li>-Loss/change of LFG flow</li> <li>-Loss/change of LFG quality</li> <li>-Problems with air/fuel controls</li> <li>-Problems/failure of flame sensor</li> <li>-Problems with temperature monitoring equipment</li> </ul>	<ul style="list-style-type: none"> <li>31. Check/repair temperature monitoring equipment</li> <li>32. Check/repair thermocouple</li> <li>33. Follow procedures for loss of flow/blower malfunction</li> <li>34. Check/adjust air/fuel controls</li> <li>35. Check/adjust/repair flame sensor</li> <li>36. Check/adjust LFG collectors</li> </ul>
Flow Monitoring/ Recording Device	Measures and records gas flow from collection system to control	Malfunctions of Flow Monitoring/Recording Device	<ul style="list-style-type: none"> <li>-Problems with orifice plate, pitot tube, or other in-line flow measuring device</li> <li>-Problems with device controls and/or wiring</li> <li>-Problems with chart recorder</li> </ul>	<ul style="list-style-type: none"> <li>37. Check/adjust/repair flow measuring device and/or wiring</li> <li>38. Check/repair chart recorder</li> <li>39. Replace paper in chart recorder</li> </ul>
Temperature Monitoring/ Recording Device	Monitors and records combustion temperature of enclosed combustion device	Malfunctions of Temperature Monitoring/Recording Device	<ul style="list-style-type: none"> <li>-Problems with thermocouple</li> <li>-Problems with device controls and/or wiring</li> <li>-Problems with chart recorder</li> </ul>	<ul style="list-style-type: none"> <li>40. Check/adjust/repair thermocouple</li> <li>41. Check/adjust/repair controller and/or wiring</li> <li>42. Check/adjust/repair electrical panel components</li> <li>43. Check/repair chart recorder</li> <li>44. Replace paper in chart recorder</li> </ul>
Control Device	Combusts LFG	Other Control Device Malfunctions	<ul style="list-style-type: none"> <li>-Control device smoking (i.e. visible emissions)</li> <li>-Problems with flare insulation</li> <li>-Problems with pilot light system</li> <li>-Problems with air louvers</li> <li>-Problems with air/fuel controllers</li> <li>-Problems with thermocouple</li> <li>-Problems with burners</li> <li>-Problems with flame arrester</li> <li>-Alarmed malfunction conditions not covered above</li> <li>-Unalarmed conditions discovered during inspection not covered above</li> </ul>	<ul style="list-style-type: none"> <li>45. Site-specific diagnosis procedures</li> <li>46. Site-specific responses actions based on diagnosis</li> <li>47. Open manual louvers</li> <li>48. Clean pitot orifice</li> <li>49. Clean/drain flame arrester</li> <li>50. Refill propane supply</li> <li>51. Check/repair pilot sparking system</li> </ul>

(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 occurred. 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**

TEMPERATURE DEVIATION/ INOPERATIVE MONITOR REPORT From January 1 2024 through June 30, 2024

**AFFECTED EQUIPMENT: A-12 Flare**

**REPORT PREPARED BY:** Rajan Phadnis **DATE:** July 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
1/19/24 10:36 PM	1/22/24 8:06 AM	57.50	Recorded out of range values	RCA was filed for inoperative flowmeter that recorded out of range flow data readings for more than a 24-hour period. RCA200121 was assigned.	Potential accumulation of condensate in the inlet pipe caused flowmeter probe to accumulate liquid and debris.	Flare was shutdown to release accumulated liquids in the header and the flowmeter probe was cleaned. Flare was restarted.

No deviations during February 2024

No deviations during March 2024

No deviations during April 2024

No deviations during May 2024

No deviations during June 2024

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, and 1,412 limit established in the February 14, 2024, Annual Source tests, 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:** January 25, 2024

**REPORT DATE:** January 25, 2024

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes	X		Near wells 58 and 66
Ponding of water on cap		X	
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	
<b>REPAIR AREAS:</b>			
<b>Location Description</b> Note cell and near-by wells	<b>Date of Repair</b>	<b>Description of Repair (add soil, water)</b>	
Erosion near well 58 and well 66	3.7.2024	Ops scheduling repairs when area has dried out and safe to access with heavy equipment.	
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:** February 8 and 26, 2024

**REPORT DATE:** February 26, 2024

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes	X		Near wells 58 and 66
Ponding of water on cap	X		Near well 123
Surface cracking		X	
Acceptable vegetation	X		
Exposed waste		X	
<b>REPAIR AREAS:</b>			
Location Description Note cell and near-by wells	Date of Repair	Description of Repair (add soil, water)	
Erosion near well 58 and well 66	3.7.2024	Ops scheduling repairs when area has dried out and safe to access with heavy equipment.	
Ponding near well 123	3.7.2024	Ops scheduling repairs when area has dried out and safe to access with heavy equipment.	
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:** March 7, 11, and 26, 2024

**REPORT DATE:** March 26, 2024

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes	X		Near Cell 7 pump station
Ponding of water on cap	X		Near Well 171
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 near well 58 and well 66	3.7.2024	Added soil
Ponding near well 123	3.7.2024	Drained liquid and added soil
Ponding near well 171	4.24.2024	Added soil
Erosion near Cell 7 pump station	4.25.2024	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:** April 10, 19, and 26, 2024

**REPORT DATE:** April 26, 2024

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes	X		Near Cell 7 pump station
Ponding of water on cap	X		Near well 171
Surface cracking	X		Near wells 105 and 151
Acceptable vegetation	X		
Exposed waste		X	
<b>REPAIR AREAS:</b>			
<b>Location Description</b> <b>Note cell and near-by wells</b>	<b>Date of Repair</b>	<b>Description of Repair (add soil, water)</b>	
Ponding near well 171	4.24.2024	Added soil	
Erosion near Cell 7 pump station	4.25.2024	Added soil	
Surface crack near well 105	5.22.2024	Added soil	
Surface crack near well 151	5.22.2024	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:** May 16, 22 and 28, 2024

**REPORT DATE:** May 28, 2024

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking	X		Cell 6
Acceptable vegetation	X		
Exposed waste		X	
<b>REPAIR AREAS:</b>			
<b>Location Description</b>	<b>Date of Repair</b>	<b>Description of Repair (add soil, water)</b>	
<b>Note cell and near-by wells</b>			
Surface crack near well 105	5.22.2024	Added soil	
Surface crack near well 151	5.22.2024	Added soil	
Surface cracks on slopes at cell 6	In progress	Corrective action initiated by adding 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:** June 25, 2024

**REPORT DATE:** June 25, 2024

**TECHNICIAN:** Tino Robles

COVER & VEGETATION	YES	NO	COMMENTS
Settling of cap		X	
Dead vegetation		X	
Erosion on cap system		X	
Erosion on side slopes		X	
Ponding of water on cap		X	
Surface cracking	X		Cell 6 slopes
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)
Surface cracks on slopes at cell 6	In progress	Corrective action initiated by adding soil.

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

February 26, 2024

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

**Re: First Quarter 2024 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 **First Quarter 2024 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<sub>v</sub>) 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<sub>v</sub> (areas of concern) or 500 ppm<sub>v</sub> (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Appendices of this report. Applicable corrective action and re-monitoring timelines are listed below:

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

If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

### **Integrated Surface Emissions Monitoring**

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm<sub>v</sub> for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 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<sub>v</sub> were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm<sub>v</sub> are subject to the following re-monitoring timeline:

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

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

### **Component Leak Monitoring Procedures**

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<sub>v</sub>. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm<sub>v</sub> per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) and 1,000 ppm<sub>v</sub> per requirements outlined in BAAQMD 8-34-303 were recorded. Applicable corrective action and re-monitoring timelines are listed below:

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

### **FIRST QUARTER 2024 SEM AND COMPONENT LEAK RESULTS**

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

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

The Instantaneous surface monitoring was performed on January 16, 2024, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

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

There were 6 exceedances of 500 ppm<sub>v</sub> as methane detected on January 16, 2024. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on January 17, 2024).

#### *Ten-Day Re-Monitoring Results*

The 10-day re-monitoring event was completed on January 23, 2024. All locations were observed at less than 500 ppm<sub>v</sub>.

#### *One-Month Re-Monitoring Results*

The 1-month re-monitoring event was completed on February 12, 2024. All locations were observed at less than 500 ppm<sub>v</sub>.



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

There were no readings between 200 ppm<sub>v</sub> and 499 ppm<sub>v</sub> as methane detected during the initial monitoring event on January 16, 2024. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm<sub>v</sub> but below 500 ppm<sub>v</sub> are required to be recorded.

**Integrated Surface Emissions Monitoring Results**

The Integrated surface sampling (ISS) was performed on January 9 and 10, 2024, in accordance with the ACO and requirements outlined in CCR Title 17 §95469.

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

There were no grids with exceedances of 25 ppm<sub>v</sub> as methane detected during the initial monitoring event on January 9 and 10, 2024.

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

**Component Leak Monitoring Results**

Component leak monitoring was conducted per the applicable requirements on January 10, 2024. No leaks greater than 500 ppm<sub>v</sub> 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<sub>v</sub> in air for integrated sample analyses and 500 ppm<sub>v</sub> in air for instantaneous monitoring to comply with the requirements.

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

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

Thank you,  
Waste Management

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

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**

**2024 QUARTER:** 1

**PERFORMED BY:** RES

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

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O1	112	1/16/2024	1,072	65
O21	75	1/16/2024	895	142
O22	111	1/16/2024	822	134
O23	47	1/16/2024	1,480	112
O24	52	1/16/2024	9,200	111
O25	58	1/16/2024	10,565	131

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

2024 QUARTER: 1

INITIAL MONITORING PERFORMED BY RES

FOLLOW-UP MONITORING PERFORMED BY: KCRDF-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	
112	1/16/2024	1,072	1/17/2024	Becs fully open, added & compact dirt	1/23/2024	88		2/12/2024	90		65
75	1/16/2024	895	1/17/2024	Becs fully open, added & compact dirt	1/23/2024	91		2/12/2024	103		142
111	1/16/2024	822	1/17/2024	Becs fully open, added & compact dirt	1/23/2024	35		2/12/2024	52		134
47	1/16/2024	1,480	1/17/2024	Becs fully open, added & compact dirt	1/23/2024	74		2/12/2024	86		112
52	1/16/2024	9,200	1/17/2024	Becs fully open, added & compact dirt	1/23/2024	95		2/12/2024	97		111
58	1/16/2024	10,565	1/17/2024	Becs fully open, added & compact dirt	1/23/2024	101		2/12/2024	132		131

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

**2024 QUARTER:** 1

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** KCRDF-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	Monitoring	Field	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Grid ID No.	Date	Reading	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
112	1/16/2024	1,072	1/23/2024	88					65
75	1/16/2024	895	1/23/2024	91					142
111	1/16/2024	822	1/23/2024	35					134
47	1/16/2024	1,480	1/23/2024	74					112
52	1/16/2024	9,200	1/23/2024	95					111
58	1/16/2024	10,565	1/23/2024	101					131

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

**2024 QUARTER:** 1

**INITIAL MONITORING PERFORMED BY:** RES

**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					





## KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LESLIE WADE EDDIE DELING  
MIGUEL ESTANCO GROB Lopez  
JERRY MENDOZA Cal. Gas Exp. Date: 11-10-24

Date: 1-16-24 Instrument Used: LVA1000 Grid Spacing: 25'

Temperature: 48 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	1030	1045	113	1	2	8	
37	ME	1030	1045	85	1	2	8	
38	JM	1030	1045	140	1	2	8	
41	EO	1030	1045	92	1	2	8	
42	GL	1030	1045	154	1	2	8	
43	LW	1045	1100	88	1	2	8	
44	ME	1045	1100	35	1	2	8	
47	JM	1045	1100	1480	1	2	8	well 112
48	EO	1045	1100	97	1	2	8	
49	GL	1045	1100	124	1	2	8	
52	LW	1100	1115	9,200	1	3	7	well 111
53	ME	1100	1115	75	1	3	7	
54	JM	1100	1115	110	1	3	7	
55	EO	1100	1115	40	1	3	7	
57	GL	1100	1115	18	1	3	7	
58	LW	1115	1130	10,565	0	0	6	well 1131
59	ME	1115	1130	39	0	0	6	
60	JM	1115	1130	65	0	0	6	
61	EO	1115	1130	32	0	0	6	
64	GL	1115	1130	14	0	0	6	
65	LW	1130	1145	57	1	2	8	
66	ME	1130	1145	102	1	2	8	
67	JM	1130	1145	170	1	2	8	
68	EO	1130	1145	34	1	2	8	
70	GL	1130	1145	18	1	2	8	
71	LW	1145	1200	49	1	3	8	
72	ME	1145	1200	96	1	3	8	
73	JM	1145	1200	51	1	3	8	
74	EO	1145	1200	39	1	3	8	
75	GL	1145	1200	895	1	3	8	well 1142

Attach Calibration Sheet  
 Attach site map showing grid ID

# KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGH WARD KODIE DELING  
MIGUEL ESTRELA GABRIEL LOPEZ  
JERRY MURPHY Cal. Gas Exp. Date: 11-10-24

Date: 1-16-24 Instrument Used: HVA1000 Grid Spacing: 25'

Temperature: 48 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
76	LW	1200	1215	140	0	1	6	
77	ME	1200	1215	129	0	1	6	
79	JJ	1200	1215	72	0	1	6	
80	ED	1200	1215	48	0	1	6	
81	GL	1200	1215	69	0	1	6	
82	LW	1215	1230	114	1	2	6	
83	ME	1215	1230	52	1	2	6	
84	JJ	1215	1230	95	1	2	6	
85	ED	1215	1230	72	1	2	6	
86	GL	1215	1230	40	1	2	6	
87	LW	1230	1245	91	0	1	6	
88	ME	1230	1245	77	0	1	6	
89	JJ	1230	1245	41	0	1	6	
90	ED	1230	1245	26	0	1	6	
91	GL	1230	1245	74	0	1	6	
92	LW	1245	1300	111	1	2	6	
93	ME	1245	1300	97	1	2	6	
94	JJ	1245	1300	54	1	2	6	
95	ED	1245	1300	69	1	2	6	
96	GL	1245	1300	32	1	2	6	
97	LW	1300	1315	41	1	3	14	
98	ME	1300	1315	128	1	3	14	
99	JJ	1300	1315	114	1	3	14	
100	ED	1300	1315	62	1	3	14	
101	GL	1300	1315	94	1	3	14	
102	LW	1315	1330	71	0	1	14	
103	ME	1315	1330	58	0	1	14	
104	JJ	1315	1330	30	0	1	14	
105	ED	1315	1330	28	0	1	14	
106	GL	1315	1330	74	0	1	14	

Attach Calibration Sheet  
 Attach site map showing grid ID

# KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LUSHNANE EDDIE O'NEILL  
MISKEL ESTROFF 6036 10P82  
JERRY MURPHY Cal. Gas Exp. Date: 11-10-24

Date: 1-16-24 Instrument Used: WA1000 Grid Spacing: 25'

Temperature: 50 Precip: 0 Upwind BG: 2.2 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
107	LW	1330	1345	65	0	1	10	
109	ME	1330	1345	52	0	1	10	
112	JM	1330	1345	1072	0	1	10	WE165
113	EO	1330	1345	74	0	1	10	
116	GL	1330	1345	59	0	1	10	
119	LW	1345	1400	31	1	2	8	
120	ME	1345	1400	26	1	2	8	
121	JM	1345	1400	42	1	2	8	
124	EO	1345	1400	57	1	2	8	
127	GL	1345	1400	31	1	2	8	
128	LW	1400	1415	20	1	2	10	
129	ME	1400	1415	40	1	2	10	
132	JM	1400	1415	36	1	2	10	
133	EO	1400	1415	45	1	2	10	
134	GL	1400	1415	39	1	2	10	
135	LW	1415	1430	27	1	2	10	
136	ME	1415	1430	34	1	2	10	
137	JM	1415	1430	29	1	2	10	
138	EO	1415	1430	40	1	2	10	
139	GL	1415	1430	26	1	2	10	
140	LW	1430	1445	38	4	7	6	
141	ME	1430	1445	31	4	7	6	
142	JM	1430	1445	15	4	7	6	
143	EO	1430	1445	42	4	7	6	
144	GL	1430	1445	37	4	7	6	
145	LW	1445	1500	20	1	4	8	
146	ME	1445	1500	18	1	4	8	
147	JM	1445	1500	25	1	4	8	
148	EO	1445	1500	37	1	4	8	
149	GL	1445	1500	44	1	4	8	

Attach Calibration Sheet  
 Attach site map showing grid ID



# KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: CAISHUAOB

Cal Gas Exp Date \_\_\_\_\_

Date: 1-16-24 Instrument Used \_\_\_\_\_ Grid Spacing \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
110								Active sites ↓
111								
117								
118								
125								
126								
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								

Attach Calibration Sheet  
Attach site map showing grid ID

# KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

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

Date: 1-16-24 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
62								
63								
65								
78								
108								
114								
115								
122								
123								
130								
131								

Attach Calibration Sheet  
 Attach site map showing grid ID

# Orange Flag Landfill Surface Emissions Monitoring Exceedances and Monitoring Log

Site: KIRBY

Quarter / Year:		1st 2024										Page	of	Pages
Technician:		LEISHMAN												
Instrument:		FVA1000												
Calibration Standard:		500ppm												
Initial Monitoring Event														
Flag Number	Grid Number	Field Reading (ppm)	Date Monitored	First Re-Monitoring Event - 10 Days			Second Re-Monitoring Event - 10 Days			30-Day Follow-up Monitoring			Comments	
				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		
01	112	1072	1-16-24											WE1165
021	75	895	↓											WE1142
022	111	822												WE1134
023	47	1480												WE1112
024	52	9200												WE1111
025	58	10,565												WE1131
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														
0-														

**KIRBY LANDFILL**  
**PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS**

Year: 2024  
 Quarter: 1st

IME Date	TIME	IME Location ID	IME Concentration (ppm)
1-16-24	0940	KCLC0108	27
	0934	KCLC0109	54
	0930	KCLC0110	31
	0940	KCLC0111	9,200
	0947	KCLC0112	1,480
	0937	KCLC0139	75
	0958	KCLC0140	58
	0952	KCLC0141	69
	0930	KCLC0142	895
	0940	KCLC0143	106
	0950	KCLC0145	45
	0945	KCLC0147	38
	1010	KCLC0149	60
	0934	KCLC0151	27
	1009	KCLC0152	49
	1007	KCLC0153	55
	1004	KCLC0154	30
	0959	KCLC0155	28
	1001	KCLC0156	34
	1008	KCLC0157	61
	0945	KCYN0014	28
	0930	KCYN0027	31
	0930	KCYN0048	22
	1022	KCYN0051	27
	0950	KCYN0054	48
	1021	KCYN0056	34
	1018	KCYN0057	77
	0938	KCYN0058	31
	0954	KCYN0062	25
	1024	KCYN0063	38
	1000	KCYN0065	1,072
	0957	KCYN0066	51
0950	KCYN0070	77	
1010	KCYN0071	36	
0925	KCYN0072	40	
0940	KCYN0074	29	
1000	KCYN0075	51	
0958	KCYN0076	38	
1004	KCYN0078	32	
1010	KCYN0082	40	



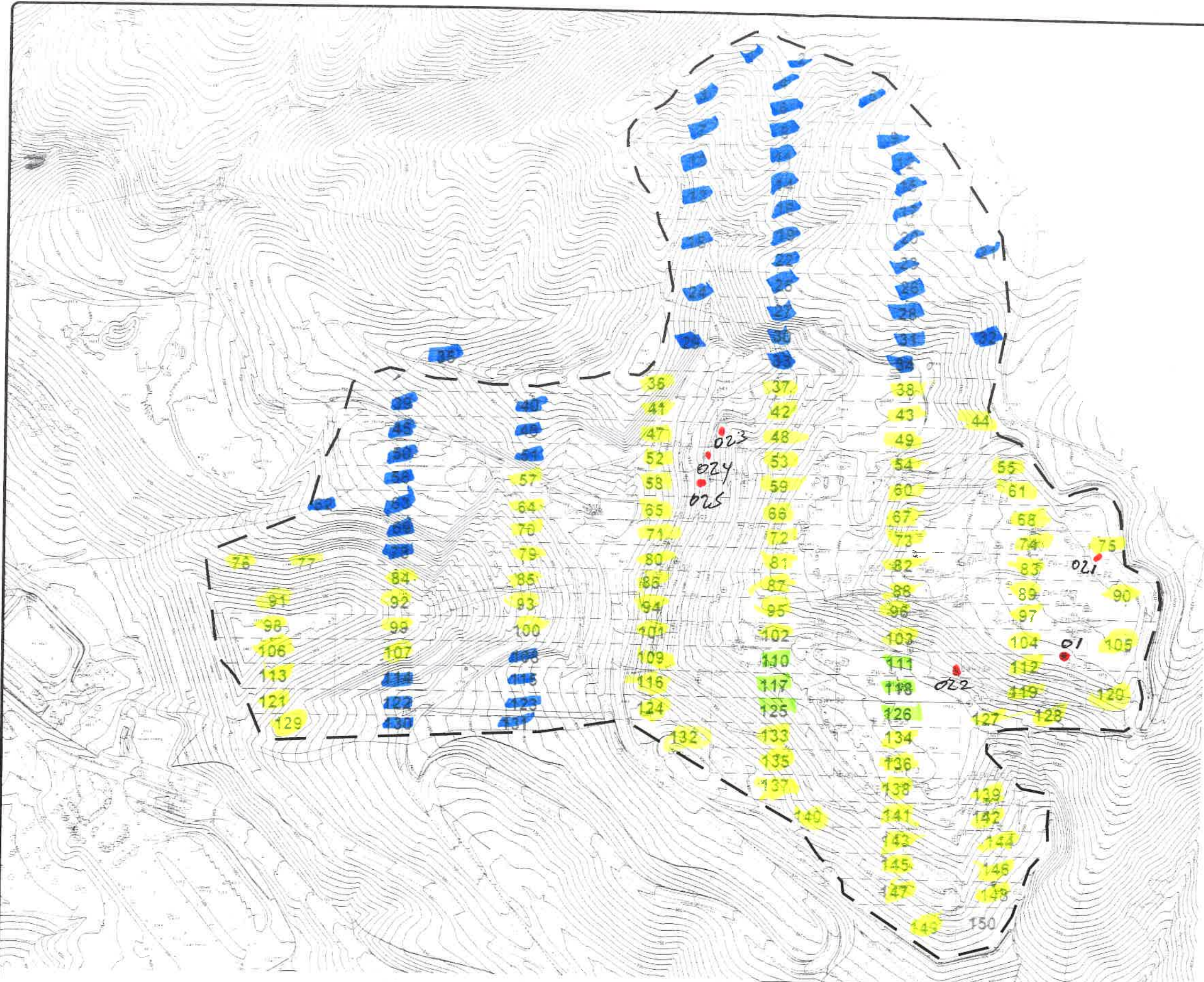
**KIRBY LANDFILL**  
**PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS**

Year: 2024  
 Quarter: 1st

IME Date	TIME	IME Location ID	IME Concentration (ppm)
1-16-24	0931	KCYN0084	30
	0937	KCYN0086	24
	1000	KCYN0087	37
	0947	KCYN0088	18
	0939	KCYN0089	24
	0945	KCYN0090	35
	0957	KCYN0091	61
	1006	KCYN0092	40
	0935	KCYN0093	27
	1015	KCYN0094	33
	0954	KCYN0095	16
	1004	KCYN0097	40
	0938	KCYN0098	21
	1007	KCYN0099	14
	0950	KCYN0101	29
	0936	KCYN0102	37
	1015	KCYN0103	78
	1020	KCYN0105	54
	1006	KCYN0118	45
	0945	KCYN0119	20
	0958	KCYN0121	36
	0940	KCYN0122	41
	0951	KCYN0123	20
	0946	KCYN0124	24
	0937	KCYN0125	43
	1010	KCYN0126	17
	1004	KCYN0127	26
	0931	KCYN0128	18
	1001	KCYN0129	21
	1024	KCYN0130	35
	1007	KCYN0131	10,565
	1015	KCYN0133	17
1030	KCYN0134	822	
1016	KCYN0135	14	
0940	KCYNLR04	18	
1000	KCYNLR08	47	
1021	KCYNLR11	16	
0945	KCYN0162	51	
1018	KCYN0163	74	
0931	KCYN0164	106	



P:\Projects\KIRBY\2020\AS-BUILT\UPDATE\Project Drawings\2020\SEM Grid Map AS-BUILT.dwg, 11/12/2020, 11:52 AM, User: DICKSON, Plot: 11/12/2020, 11:52 AM, 11:52 AM



**LEGEND**

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



- NOTES:**
- TOPOGRAPHIC CONTOURS PREPARED USING PHOTOGRAMMETRIC METHODS BY WALKER ASSOCIATES. DATE OF PHOTOGRAPHY: APRIL 1, 2020.
  - 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.
  - 2017 GCCS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: OCTOBER 11, 2017.
  - 2019 GCCS AS-BUILT SURVEYS PROVIDED BY F3 AND ASSOCIATES, INC. DATED: AUGUST 19, 2019 AND DECEMBER 30, 2019.
  - SUPPLEMENTAL 2019 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM DATED: JANUARY 27 AND 30, 2020, AND BY SCS ENGINEERS DATED: FEBRUARY 4, 2020.
  - 2020 GCCS IMPROVEMENTS AS-BUILT SURVEY PROVIDED BY F3 AND ASSOCIATES, INC. DATED: JULY 22, 2020.
  - SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020.

*INSTANTANEOUS 1-16-24*

- GRIDS MONITORED
- Active-trench
- NO WASTE IMPACT
- SOOTPPY



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/12/2020					



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

SHEET NO  
**3**  
 PROJECT NO  
 200125

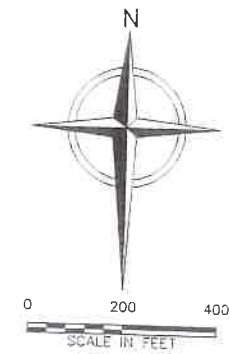
FINAL AS-BUILT

SEM GRID MAP

**LEGEND**

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

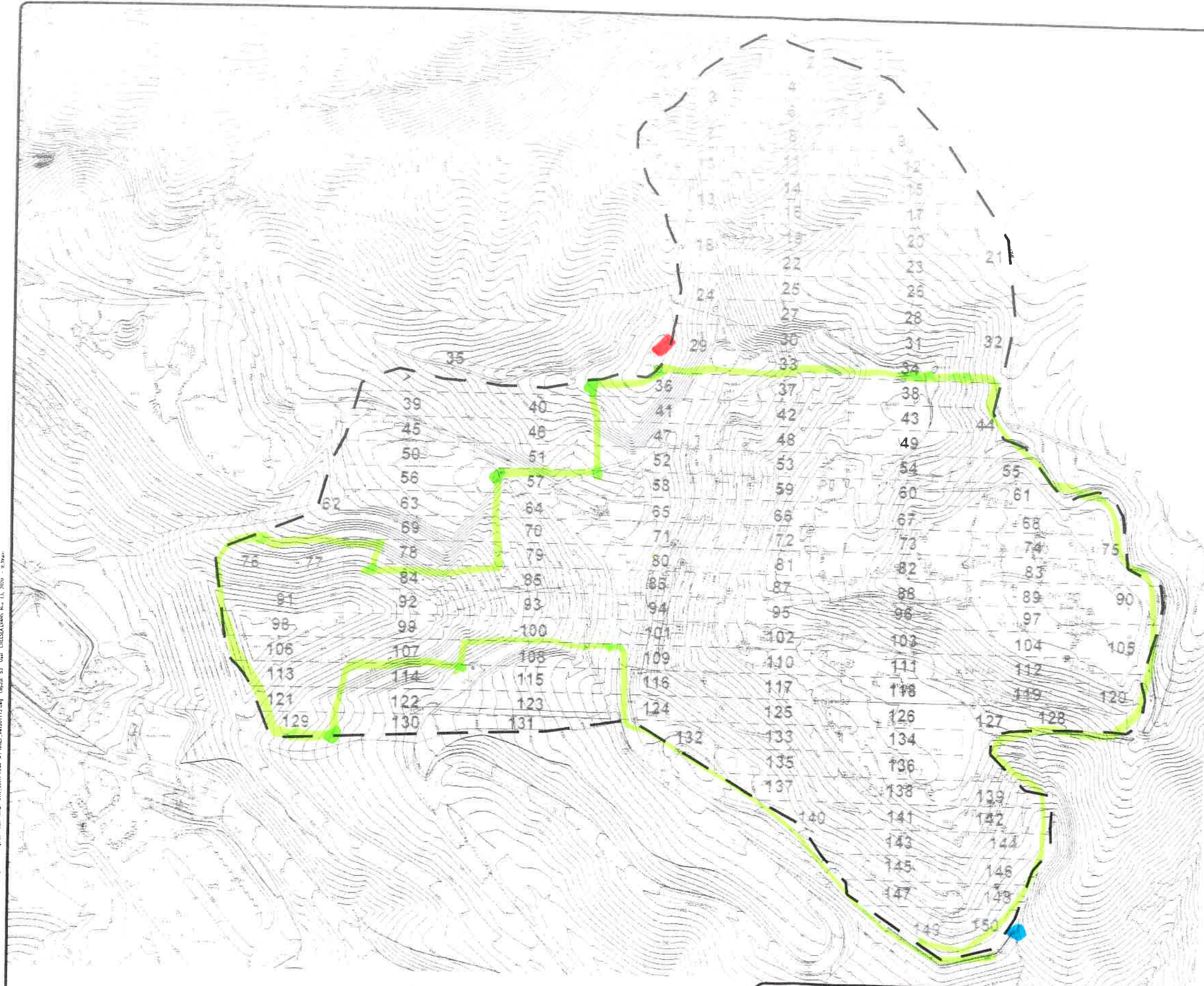
105



**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.

*1st & 2nd NSPS*  
 *PERIMETER SWEEP*  
 *= UPWIND*  
 *= DOWNWIND*



REV	DATE	DESCRIPTION	DRW BY	CHK BY	APP BY



**FINAL AS-BUILT**

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

**SEM GRID MAP**

SHEET NO  
**3**  
 PROJECT NO  
 300-15

2020 KIRBY CANYON RECYCLING AND DISPOSAL FACILITY 2020 GCCS IMPROVEMENTS SEM GRID MAP AS-BUILT SHEET NO. 3  
 DATE: 11/12/2020  
 DRAWN BY: J.E.  
 CHECKED BY: J.E.  
 APPROVED BY: J.E.  
 PROJECT NO: 300-15

**Attachment B**

Integrated Surface Emission Monitoring Event Records

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

**2024 QUARTER:** 1  
**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			Comments
Exceedance	Monitoring	Field	Monitoring	No Exced.	No Exced.	
Grid ID No.	Date	Reading	Date	<25 ppm	>25 ppm	
None						

# KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LEISHMANE GRUBLOPER  
MIGUEL ESTRADA EDDIE DEJONG  
JENNY MARR Cal Gas Exp Date: 11-10-24

Date: 1-9-24 Instrument Used: LVA1000 Grid Spacing: 25'

Temperature: 54 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	1300	1325	12.40	4	6	14	
37	ME	1300	1325	16.38	4	6	14	
38	JM	1300	1325	12.45	4	6	14	
41	GL	1300	1325	20.70	4	6	14	
42	EO	1300	1325	12.10	4	6	14	
43	LW	1325	1350	13.71	3	5	13	
44	ME	1325	1350	9.60	3	5	13	
47	JM	1325	1350	10.13	3	5	13	
48	GL	1325	1350	15.54	3	5	13	
49	EO	1325	1350	13.61	3	5	13	
52	LW	1350	1415	9.67	3	4	14	
53	ME	1350	1415	16.54	3	4	14	
54	JM	1350	1415	14.22	3	4	14	
55	GL	1350	1415	8.71	3	4	14	
57	EO	1350	1415	6.45	3	4	14	
58	LW	1415	1440	8.12	4	5	14	
59	ME	1415	1440	11.13	4	5	14	
60	JM	1415	1440	18.71	4	5	14	
61	GL	1415	1440	9.30	4	5	14	
64	EO	1415	1440	7.11	4	5	14	
65	LW	1440	1505	9.21	2	3	14	
66	ME	1440	1505	11.14	2	3	14	
67	JM	1440	1505	20.38	2	3	14	
68	GL	1440	1505	8.71	2	3	14	
70	EO	1440	1505	6.45	2	3	14	
71	LW	1505	1530	10.15	3	5	13	
72	ME	1505	1530	13.92	3	5	13	
73	JM	1505	1530	17.98	3	5	13	
74	GL	1505	1530	9.12	3	5	13	
75	EO	1505	1530	8.44	3	5	13	

Attach Calibration Sheet  
 Attach site map showing grid ID





# KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Loishwmm

Cal Gas Exp Date: \_\_\_\_\_

Date: 1-9-24 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
110								Active-trails ↓
111								
117								
118								
125								
126								
1								
2								no waste in pit ↓
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								

Attach Calibration Sheet  
Attach site map showing grid ID

**KIRBY LANDFILL  
INTEGRATED LANDFILL SURFACE MONITORING**

Personnel: LEIGH WARD

Cal Gas Exp Date: \_\_\_\_\_

Date: 8-9-24 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
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								
123								
130								
131								

Attach Calibration Sheet  
Attach site map showing grid ID

# KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: LOUIS VUOC LAKE LOPEZ  
MISHEL ESTABO KARL OSLING  
JERRY HALL Cal. Gas Exp. Date: 11-10-24

Date: 1-10-24 Instrument Used: LVA100 Grid Spacing: 25'

Temperature: 38 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
82	LW	0615	0640	7.18	1	1	2	
83	ME	0615	0640	7.10	1	1	2	
84	JH	0615	0640	21.67	1	1	2	
85	GL	0615	0640	9.71	1	1	2	
86	ED	0615	0640	9.30	1	1	2	
87	LW	0640	0705	14.67	2	2	5	
88	ME	0640	0705	11.20	2	2	5	
89	GL	0640	0705	8.13	2	2	5	
90	JH	0640	0705	7.21	2	2	5	
91	ED	0640	0705	19.77	2	2	5	
92	LW	0705	0730	22.46	2	2	5	
93	ME	0705	0730	11.47	2	2	5	
94	JH	0705	0730	16.28	2	2	5	
95	GL	0705	0730	13.25	2	2	5	
96	ED	0705	0730	9.50	2	2	5	
97	LW	0730	0755	7.12	2	2	5	
98	ME	0730	0755	23.41	2	2	5	
99	JH	0730	0755	17.62	2	2	5	
100	GL	0730	0755	11.69	2	2	5	
101	ED	0730	0755	14.57	2	2	5	
102	LW	0755	0820	12.34	3	3	6	
103	ME	0755	0820	8.60	3	3	6	
104	JH	0755	0820	6.81	3	3	6	
105	GL	0755	0820	5.47	3	3	6	
106	ED	0755	0820	12.21	3	3	6	
107	LW	0820	0845	16.91	3	3	5	
109	ME	0820	0845	10.54	3	3	5	
112	JH	0820	0845	6.07	3	3	5	
113	GL	0820	0845	10.47	3	3	5	
116	ED	0820	0845	12.17	3	3	5	

Attach Calibration Sheet  
 Attach site map showing grid ID

# KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

Personnel: L. Fish WAOR G. Bob Lopez  
M. S. G. ESTACOR B. D. R. J. O. S.  
J. R. M. M. N. O. Z. Cal Gas Exp Date: 11-10-24

Date: 1-10-24 Instrument Used: TVA1000 Grid Spacing: 25'

Temperature: 55 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.8

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 15 POINT	
119	LW	0845	0910	6.51	3	4	10	
120	ME	0845	0910	6.38	3	4	10	
121	JM	0845	0910	9.27	3	4	10	
124	GL	0845	0910	10.66	3	4	10	
127	ED	0845	0910	6.45	0	4	10	
128	LW	0910	0935	7.02	3	4	11	
129	ME	0910	0935	8.14	3	4	11	
132	JA	0910	0935	8.31	3	4	11	
133	GL	0910	0935	7.25	3	4	11	
134	ED	0910	0935	8.71	3	4	11	
135	LW	0935	1000	7.61	3	4	11	
136	ME	0935	1000	6.94	3	4	11	
137	JM	0935	1000	7.08	3	4	11	
138	ED	0935	1000	6.84	3	4	11	
139	GL	0935	1000	7.21	3	4	11	
140	LW	1000	1025	6.45	3	5	11	
141	ME	1000	1025	6.77	3	5	11	
142	JM	1000	1025	5.84	3	5	11	
143	GL	1000	1025	6.30	3	5	11	
144	ED	1000	1025	5.27	3	5	11	
145	LW	1025	1050	6.66	2	3	10	
146	ME	1025	1050	5.43	2	3	10	
147	JM	1025	1050	5.51	2	3	10	
148	GL	1025	1050	5.30	2	3	10	
149	ED	1025	1050	5.91	2	3	10	
150	LW	1050	1115	5.70	1	2	6	

Attach Calibration Sheet  
 Attach site map showing grid ID

**LEGEND**

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

105



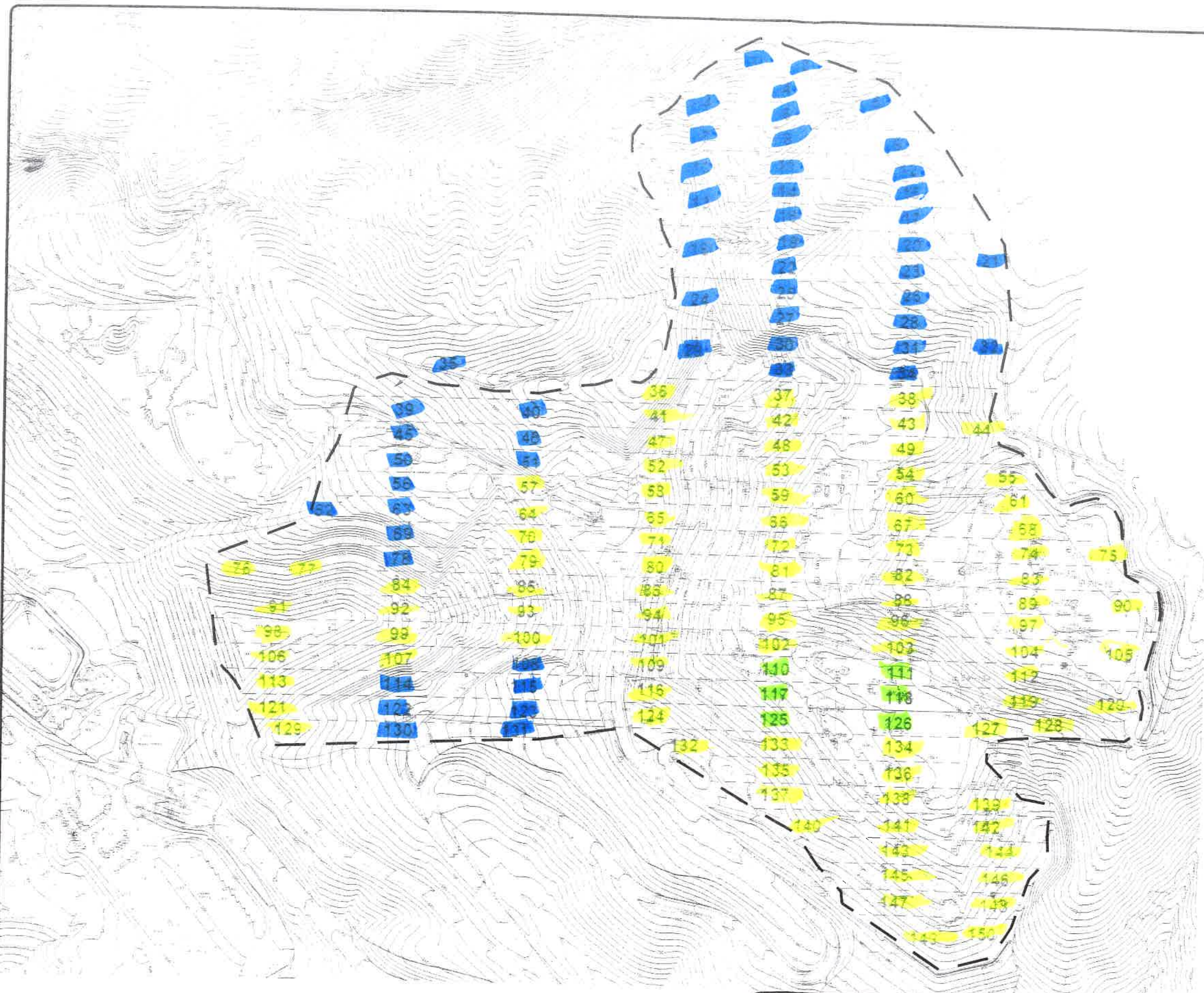
**NOTES:**

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 SDS 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.

*Integrated 1-9-24  
1-10-24*

- Grids monitored
- Active-fresh
- No waste impact

2020 AS-BUILT 10/19/2020 Project: D:\Projects\2019\2019-08-01\1012.dwg, Layout: 5, User: G3L3A\G3L3A, Rev: 1.1, 10/19/2020



REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	DATE	APPROVED BY



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

SHEET NO  
**3**  
 PROJECT NO

**FINAL AS-BUILT**

**SEM GRID MAP**

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

**2024 QUARTER:** 1  
**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	01/10/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

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

2024 QUARTER: 1

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	01/10/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances





Landfill component Leak Check  
Kirby

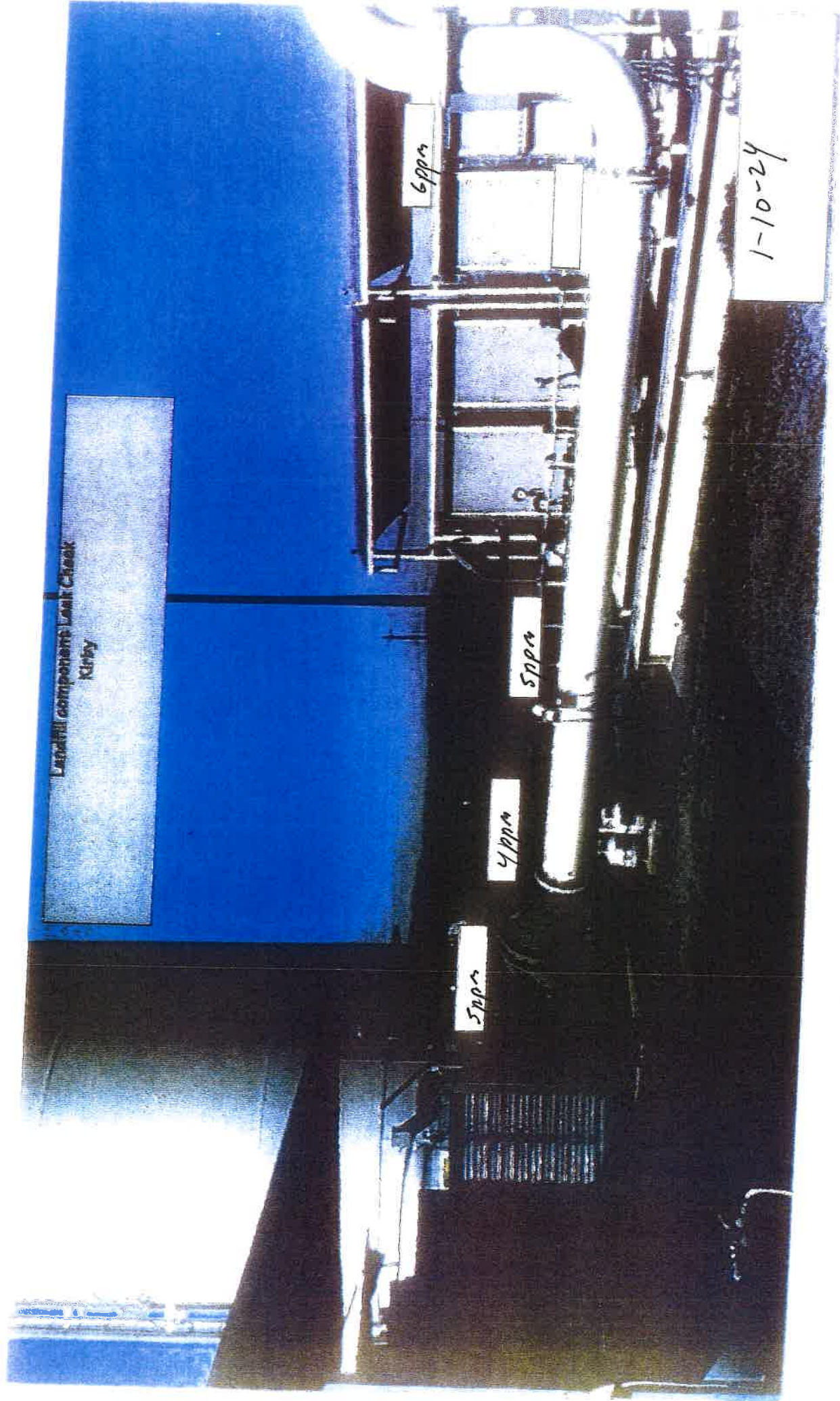
6ppm

5ppm

4ppm

5ppm

1-10-24



Landfill component Leak Check

Kirby

3ppm

8ppm

4ppm

6ppm

4ppm

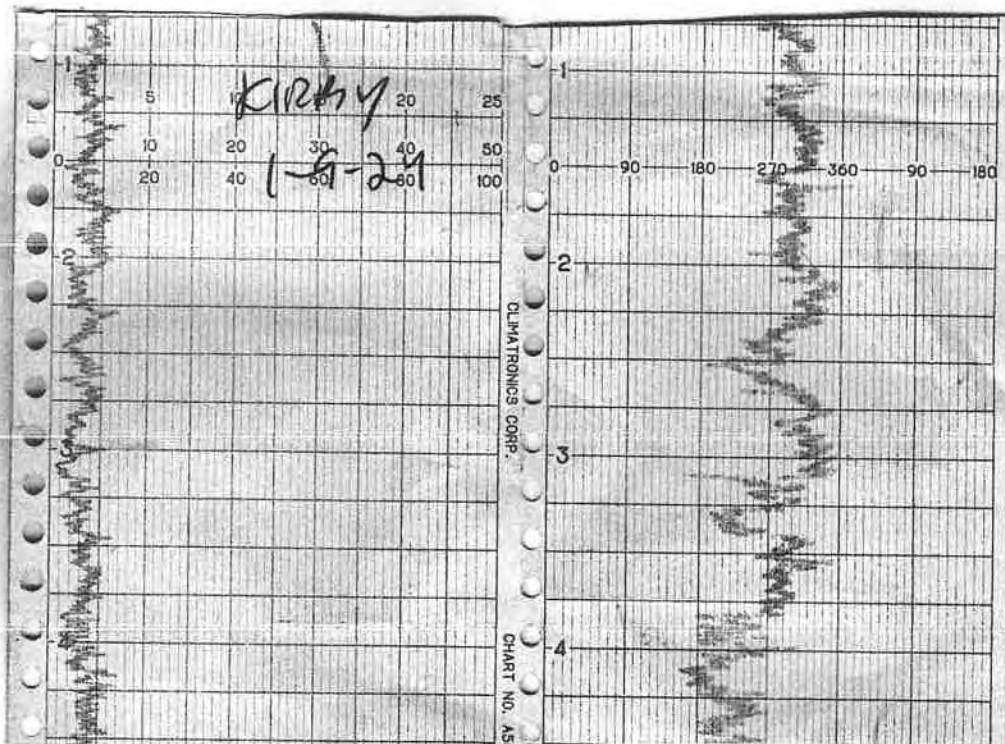
1-10-24



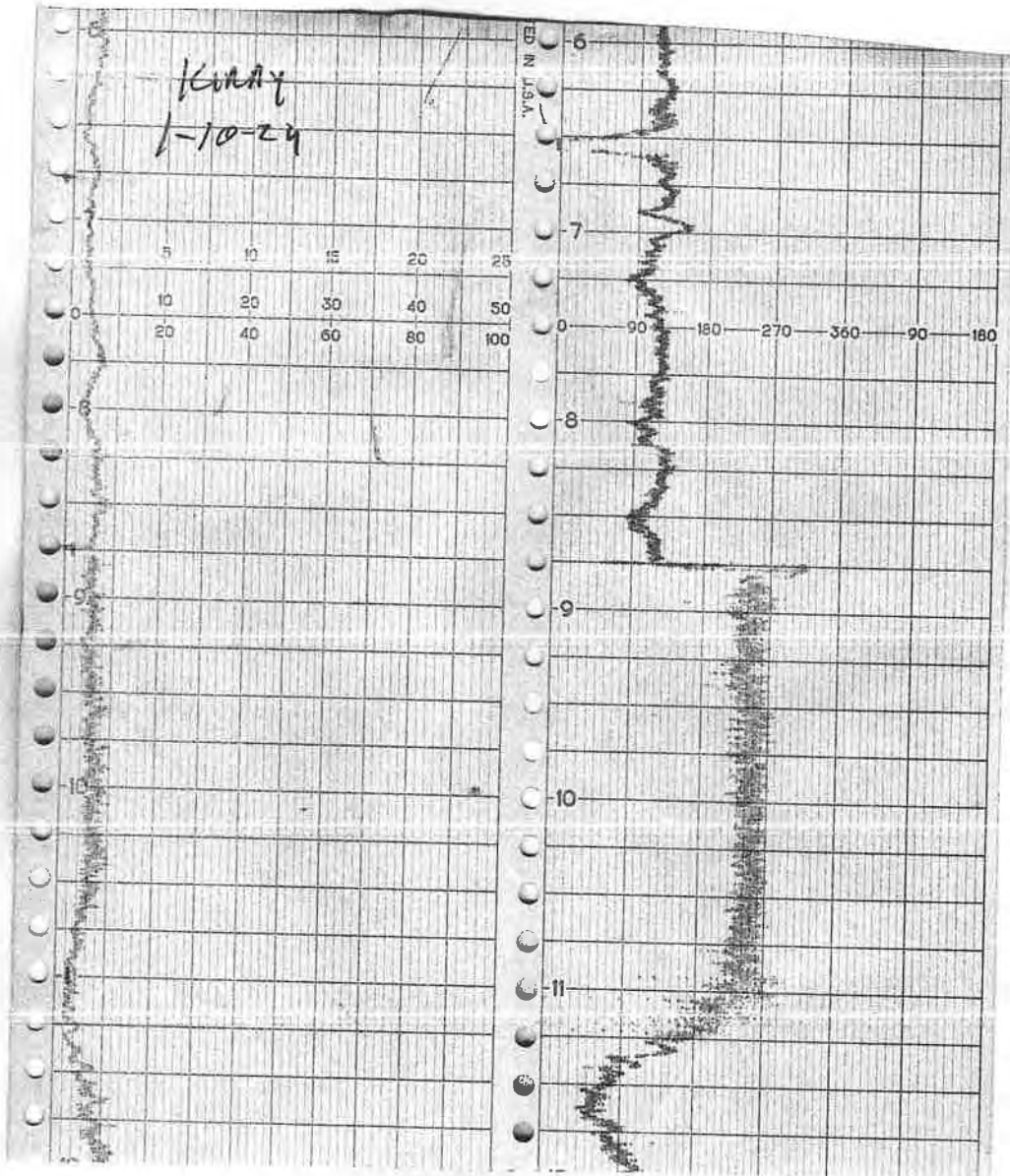
**Attachment D**

Weather Station Data

# WIND SPEED & DIRECTION CHART ROLL



# WIND SPEED & DIRECTION CHART ROLL

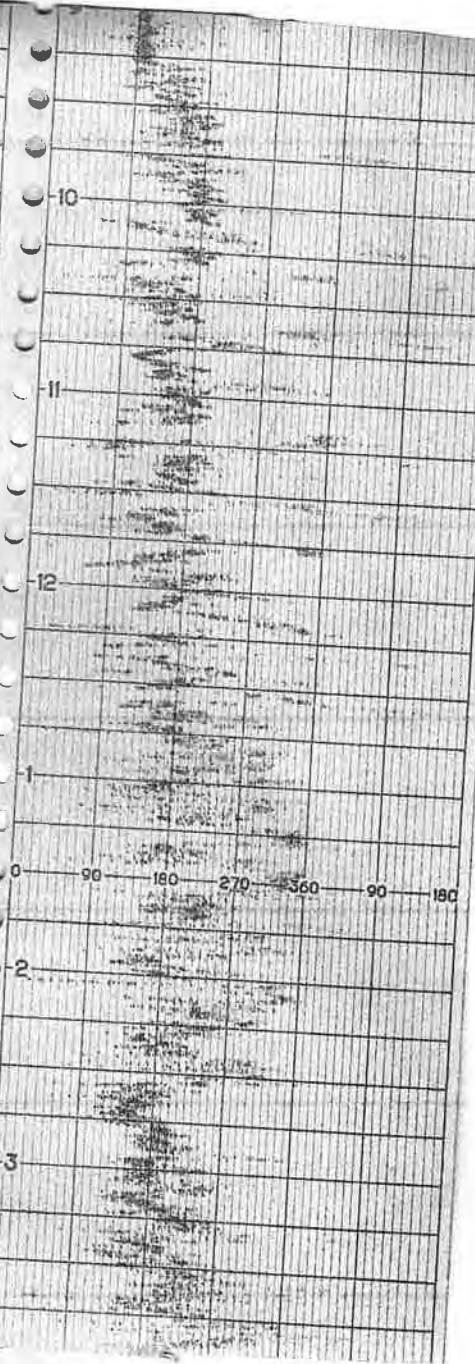


# WIND SPEED & DIRECTION CHART ROLL

FIDAY  
1-16-24

5	10	15	20	25
10	20	30	40	50
20	40	60	80	100

CLIMATE  
ELECTRONICS  
CORP.



16-POINT WIND DIRECTION INDEX

<u>NO</u>	<u>DIRECTION</u>	<u>DEGREES</u>		
		<u>FROM</u>	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>360.0</u>	0.0
1	NORTH-NORTHEAST (NNE)	011.3	<u>022.5</u>	033.8
2	NORTHEAST (NE)	033.8	<u>045.0</u>	056.3
3	EAST-NORTHEAST (ENE)	056.3	<u>067.5</u>	078.8
4	EAST (E)	078.8	<u>090.0</u>	101.3
5	EAST-SOUTHEAST (ESE)	101.3	<u>112.5</u>	123.8
6	SOUTHEAST (SE)	123.8	<u>135.0</u>	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	<u>180.0</u>	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
10	SOUTHWEST (SW)	213.8	<u>225.0</u>	236.3
11	WEST-SOUTHWEST (WSW)	236.3	<u>247.5</u>	258.8
12	WEST (W)	258.8	<u>270.0</u>	281.3
13	WEST-NORTHWEST (WNW)	281.3	<u>292.5</u>	303.8
14	NORTHWEST (NW)	303.8	<u>315.0</u>	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337.5</u>	348.8

**Attachment E**  
Calibration Records



**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME: KINBY INSTRUMENT MAKE Hanna  
 MODEL: VA1000 EQUIPMENT #: 10 SERIAL #: 1036346773  
 MONITORING DATE: 1-16-24 TIME: 0930

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.2</u> ppm	<u>2.8</u> ppm	<u>2.5</u> ppm

Background Value = 2.5 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>506</u> ppm	<u>456</u> ppm	<u>5</u>
#2	<u>507</u> ppm	<u>457</u> ppm	<u>5</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.14</u> ppm	<u>506</u> ppm	<u>6</u>
#2	<u>0.09</u> ppm	<u>507</u> ppm	<u>1</u>
#3	<u>0.07</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.46</u> #DIV/0! Must be less than 10%

Performed By: LESLIE WROTE Date/Time: 1-16-24 0930

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS**

LANDFILL NAME: KIRBY INSTRUMENT MAKE: HANNO  
 MODEL: FVA1000 EQUIPMENT #: 11 SERIAL #: 1036346772  
 MONITORING DATE: 1-16-24 TIME: 0930

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.2</u> ppm	<u>2.8</u> ppm	<u>2.5</u> ppm

Background Value = 2.5 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>507</u> ppm	<u>457</u> ppm	<u>5</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
#3	<u>515</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.09</u> ppm	<u>507</u> ppm	<u>7</u>
#2	<u>0.06</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.09</u> ppm	<u>515</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.46</u> #DIV/0! Must be less than 10%

Performed By: Miguel Estroza Date/Time: 1-16-24 - 0930

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME KIRBY INSTRUMENT MAKE: THOR  
 MODEL FA1000 EQUIPMENT # 12 SERIAL #: 103624674/  
 MONITORING DATE: 1-16-24 TIME: 0930

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.2</u> ppm	<u>2.8</u> ppm	<u>2.5</u> ppm

Background Value = 2.5 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>485</u> ppm	<u>439</u> ppm	<u>6</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.11</u> ppm	<u>489</u> ppm	<u>11</u>
#2	<u>0.05</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.03</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.73</u> #DIV/0! Must be less than 10%

Performed By: JERRY MENDOZA Date/Time: 1-16-24-0930

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS**

LANDFILL NAME: KIRBY INSTRUMENT MAKE: Fluoro  
 MODEL: LVA1000 EQUIPMENT #: 13 SERIAL #: 1102796775  
 MONITORING DATE: 1-16-24 TIME: 0930

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.2</u> ppm	<u>2.8</u> ppm	<u>2.5</u> ppm

Background Value = 2.5 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>506</u> ppm	<u>456</u> ppm	<u>&gt;</u>
#2	<u>501</u> ppm	<u>451</u> ppm	<u>&gt;</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>&gt;</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>&gt;</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.10</u> ppm	<u>506</u> ppm	<u>6</u>
#2	<u>0.07</u> ppm	<u>501</u> ppm	<u>1</u>
#3	<u>0.04</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.46</u> #DIV/0! Must be less than 10%

Performed By: ADDIE DE LARS Date/Time: 1-16-24-0930

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INSTANTANEOUS**

LANDFILL NAME: KIRBY INSTRUMENT MAKE: Fluoro  
 MODEL: FLUORO EQUIPMENT #: 16 SERIAL #: 1162746776  
 MONITORING DATE: 1-16-24 TIME: 0930

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.2</u> ppm	<u>2.8</u> ppm	<u>2.5</u> ppm

Background Value = 2.5 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>490</u> ppm	<u>440</u> ppm	<u>6</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.12</u> ppm	<u>490</u> ppm	<u>10</u>
#2	<u>0.06</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.33</u> #DIV/0! Must be less than 10%

Performed By: GREG LOPEZ Date/Time: 1-16-24-0930



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE Hemo  
MODEL JVA1000 EQUIPMENT # 10 SERIAL # 1036346773  
MONITORING DATE 1-9-24 TIME 1250

Calibration Procedure:

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe. Stabilized reading = 25 ppm
- 3 Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>✓</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>✓</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>✓</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>✓</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.11</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.08</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.06</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By LOUGHNOE Date/Time 1-9-24 1250

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KERRY INSTRUMENT MAKE Hygon  
 MODEL LVA 1000 EQUIPMENT # 11 SERIAL # 1036346772  
 MONITORING DATE 1-9-24 TIME 1250

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.10</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.06</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.03</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By MIGUEL ESTREDA Date/Time 1-9-24 - 1250

1255

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE FHWA  
 MODEL VIA1000 EQUIPMENT # 12 SERIAL # 1036246741  
 MONITORING DATE 1-9-24 TIME 1250

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value:  (Upwind + Downwind) 2
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>6</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.11</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.06</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>4.0</u> #DIV/0! Must be less than 10%

Performed By Jenny Muroz Date/Time 1-9-24 1250



12128

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE LH6000  
 MODEL LVA1000 EQUIPMENT # 13 SERIAL # 1102746725  
 MONITORING DATE 1-9-24 TIME: 1250

Calibration Procedure:

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe Stabilized reading = 25 ppm
- 3 Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By GLBB 10922 Date/Time 1-9-24-1250

KIRK

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME LCIRBY INSTRUMENT MAKE Hera  
 MODEL LVA1000 EQUIPMENT # 16 SERIAL # 1102746776  
 MONITORING DATE: 1-9-24 TIME 1250

Calibration Procedure:

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe Stabilized reading = 25 ppm
- 3 Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.13</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By ADDIE DELINS Date/Time 1-9-24-1250



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KINDY INSTRUMENT MAKE Hannu  
MODEL WA100 EQUIPMENT # 10 SERIAL # 1036746773  
MONITORING DATE 1-10-24 TIME 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>7</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>7</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.86</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By LEISHWART Date/Time 1-10-24-0600

15125

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME LCIRBY INSTRUMENT MAKE HANNA  
MODEL FVA1000 EQUIPMENT # 11 SERIAL # 1036346772  
MONITORING DATE 1-10-24 TIME: 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.10</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.08</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.03</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By Miguel Osuna Date/Time: 1-10-24-0600

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KIRBY INSTRUMENT MAKE HORW  
 MODEL LVA1000 EQUIPMENT # 12 SERIAL # 1036246741  
 MONITORING DATE 1-10-24 TIME 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.14</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.06</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By JERRY MORA Date/Time: 1-10-24-0600

12105

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME ICIRBY INSTRUMENT MAKE Herao  
 MODEL JVA1000 EQUIPMENT # 13 SERIAL # 1102746775  
 MONITORING DATE 1-10-24 TIME 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>4</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.14</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.09</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>9.0</u> #DIV/0! Must be less than 10%

Performed By GR66 lupel Date/Time 1-10-24-0600

12188

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME LIBBY INSTRUMENT MAKE Hera  
 MODEL HVA1000 EQUIPMENT # 16 SERIAL # 1162746776  
 MONITORING DATE 1-10-24 TIME 0600

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.8</u> ppm	<u>2.4</u> ppm

Background Value = 2.4 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.10</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.2</u> #DIV/0! Must be less than 10%

Performed By BRAD DE LUG Date/Time 1-10-24-0600

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canton Date: 1/23/24  
Time: 7:05 AM \_\_\_\_\_ PM  
Instrument Make: Thermo 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 ppm
3. Adjust meter to read 500 ppm.

## Background Determination Procedure

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

Calculate Background Value:

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

Performed By: Pobles



**CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION  
REPORT**

Landfill Name: Kirby Canton      Date: 2/12/24  
Time: 545 AM \_\_\_\_\_ PM  
Instrument Make: Thermo      Model: TVA140B      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 = 502 ppm
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

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

Performed By: Rhls

# CALIBRATION PRECISION TEST RECORD

Date: 1/4/2024

Expiration Date (3 months): 4/4/2024

Time: 5:30 AM \_\_\_\_\_ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air: \_\_\_\_\_ 0 ppm (a)

Meter Reading for Calibration Gas: \_\_\_\_\_ 498 ppm (b)

Measurement #2:

Meter Reading for Zero Air: \_\_\_\_\_ 0 ppm (c)

Meter Reading for Calibration Gas: \_\_\_\_\_ 496 ppm (d)

Measurement #3:

Meter Reading for Zero Air: \_\_\_\_\_ 0 ppm (e)

Meter Reading for Calibration Gas: \_\_\_\_\_ 498 ppm (f)

Calculate Precision:

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

1.0 % (must be < than 10%)

Performed by: T. Robles

# RESPONSE TIME TEST RECORD

Date: 1/4/24

Expiration Date (3 months): 4/4/24

Time: 5:30 AM        PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 498 ppm  
90% of the Stabilized Reading: 470 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 496 ppm  
90% of the Stabilized Reading: 480 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: 498 ppm  
90% of the Stabilized Reading: 460 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

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

Performed by: T.Robles

## SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: MM

Date: 1-5-24 Time: 0815

Model # TVA 1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST	INSTRUMENT CALIBRATION						
<p>Battery test <span style="float: right;">Pass / Fail</span></p> <p>Reading following ignition <span style="float: right;"><u>211</u> ppm</span></p> <p>Leak test <span style="float: right;">Pass / Fail / NA</span></p> <p>Clean system check (check valve chatter) <span style="float: right;">Pass / Fail / NA</span></p> <p>H<sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12) <span style="float: right;">Pass / Fail / NA</span></p> <p>Date of last factory calibration <span style="float: right;"><u>1-5-24</u></span></p> <p>Factory calibration record w/instrument within 3 months <span style="float: right;">Pass / Fail</span></p>	<p style="text-align: center;"><b>CALIBRATION CHECK</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Calibration Gas (ppm)</th> <th style="width: 33%;">Actual (ppm)</th> <th style="width: 33%;">% Accuracy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>100%</u></td> </tr> </tbody> </table> <p style="text-align: center;"><b>RESPONSE TIME</b></p> <p>Calibration Gas, ppm <span style="float: right;"><u>500</u></span></p> <p>90% of Calibration Gas, ppm <span style="float: right;"><u>450</u></span></p> <p>Time required to attain 90% of Cal Gas ppm</p> <p>1. <span style="float: right;"><u>6</u></span></p> <p>2. <span style="float: right;"><u>6</u></span></p> <p>3. <span style="float: right;"><u>5</u></span></p> <p>Average <span style="float: right;"><u>5.6</u></span></p> <p>Equal to or less than 30 seconds? <span style="float: right;"><input checked="" type="radio"/> Y <input type="radio"/> N</span></p> <p>Instrument calibrated to <u>city</u> gas.</p>	Calibration Gas (ppm)	Actual (ppm)	% Accuracy	<u>500</u>	<u>500</u>	<u>100%</u>
Calibration Gas (ppm)	Actual (ppm)	% Accuracy					
<u>500</u>	<u>500</u>	<u>100%</u>					

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: JM

Date: 1-5-24 Time: 0830

Model # TVA 1000

Serial # #11 1036346774

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	Pass / Fail	<b>CALIBRATION CHECK</b>		
Reading following ignition	<u>2.6</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	Pass / Fail / NA	<b>RESPONSE TIME</b>		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	Pass / Fail / NA	Calibration Gas, ppm <u>500</u>		
Date of last factory calibration	<u>1-5-24</u>	90% of Calibration Gas, ppm <u>450</u>		
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>6</u>	
		2.	<u>6</u>	
		3.	<u>6</u>	
		Average	<u>6.0</u>	
		Equal to or less than 30 seconds?		<input checked="" type="checkbox"/> N
		Instrument calibrated to <u>0.44</u> gas.		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator:                     JM M                    

Date:           1-5-24                     Time:           0845                    

Model #           TVA 1000                    

Serial #           #12 1036246741                    

INSTRUMENT INTEGRITY CHECKLIST	INSTRUMENT CALIBRATION						
<p>Battery test <span style="float: right;"><u>Pass</u> / Fail</span></p> <p>Reading following ignition <span style="float: right;"><u>2.3</u> ppm</span></p> <p>Leak test <span style="float: right;"><u>Pass</u> / Fail / NA</span></p> <p>Clean system check (check valve chatter) <span style="float: right;"><u>Pass</u> / Fail / NA</span></p> <p>H<sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12) <span style="float: right;"><u>Pass</u> / Fail / NA</span></p> <p>Date of last factory calibration <span style="float: right;"><u>1-5-24</u></span></p> <p>Factory calibration record w/instrument within 3 months <span style="float: right;"><u>Pass</u> / Fail</span></p>	<p style="text-align: center;"><b>CALIBRATION CHECK</b></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Calibration Gas (ppm)</th> <th style="width: 33%;">Actual (ppm)</th> <th style="width: 33%;">% Accuracy</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>100%</u></td> </tr> </tbody> </table> <p style="text-align: center;"><b>RESPONSE TIME</b></p> <p>Calibration Gas, ppm <span style="float: right;"><u>500</u></span></p> <p>90% of Calibration Gas, ppm <span style="float: right;"><u>450</u></span></p> <p>Time required to attain 90% of Cal Gas ppm</p> <p>1. <u>6</u></p> <p>2. <u>6</u></p> <p>3. <u>5</u></p> <p>Average <span style="float: right;"><u>5.6</u></span></p> <p>Equal to or less than 30 seconds? <span style="float: right;"><input checked="" type="checkbox"/> N</span></p> <p>Instrument calibrated to <u>CH<sub>4</sub></u> gas.</p>	Calibration Gas (ppm)	Actual (ppm)	% Accuracy	<u>500</u>	<u>500</u>	<u>100%</u>
Calibration Gas (ppm)	Actual (ppm)	% Accuracy					
<u>500</u>	<u>500</u>	<u>100%</u>					

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## SURFACE EMISSION MONITORING INSTRUMENT CALIBRATION LOG

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: JM M

Date: 1-5-29 Time: 0945

Model # TVA-1000

Serial # #16 1102746776

INSTRUMENT INTEGRITY CHECKLIST	INSTRUMENT CALIBRATION						
Battery test <span style="float: right;"><u>Pass</u> / Fail</span> Reading following ignition <span style="float: right;"><u>2.1</u> ppm</span> Leak test <span style="float: right;"><u>Pass</u> / Fail / NA</span> Clean system check (check valve chatter) <span style="float: right;"><u>Pass</u> / Fail / NA</span> H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12) <span style="float: right;"><u>Pass</u> / Fail / NA</span> Date of last factory calibration <span style="float: right;"><u>1-5-29</u></span> Factory calibration record w/instrument within 3 months <span style="float: right;"><u>Pass</u> / Fail</span>	<b>CALIBRATION CHECK</b> <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 33%;">Calibration Gas (ppm)</th> <th style="width: 33%;">Actual (ppm)</th> <th style="width: 33%;">% Accuracy</th> </tr> <tr> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>500</u></td> <td style="text-align: center;"><u>100%</u></td> </tr> </table> <b>RESPONSE TIME</b> Calibration Gas, ppm <span style="float: right;"><u>500</u></span> 90% of Calibration Gas, ppm <span style="float: right;"><u>450</u></span> Time required to attain 90% of Cal Gas ppm 1. <u>6</u> 2. <u>6</u> 3. <u>5</u> Average <u>5.6</u> Equal to or less than 30 seconds? <input checked="" type="checkbox"/> <b>N</b> Instrument calibrated to <u>city</u> gas.	Calibration Gas (ppm)	Actual (ppm)	% Accuracy	<u>500</u>	<u>500</u>	<u>100%</u>
Calibration Gas (ppm)	Actual (ppm)	% Accuracy					
<u>500</u>	<u>500</u>	<u>100%</u>					

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES UNIT # 10

SERIAL NUMBER: 1036346773

TECHNICIAN: MM DATE: 1-5-24

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,004	+/- 2500
< 1	ZERO GAS	0.169	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



**Environmental Inc.**

**TVA1000B CALIBRATION VERIFICATION**

CUSTOMER: RES Unit # 11

SERIAL NUMBER: 1036346774

TECHNICIAN: MM DATE: 1-5-24

**GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)**

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,001	+/- 2500
< 1	ZERO GAS	0.64	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES UNIT #12

SERIAL NUMBER: 1036246741

TECHNICIAN: [Signature]

DATE: 1-5-24

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.59	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit #13

SERIAL NUMBER: 1102746775

TECHNICIAN: MM DATE: 1-5-29

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	503	+/- 125
10000	10000	10,200	+/- 2500
< 1	ZERO GAS	0.061	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit # 16

SERIAL NUMBER: 1102746776

TECHNICIAN: Ma My

DATE: 1-5-24

### GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	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.



**EQUIPCO** SALES & SERVICE

2100 MERIDIAN PARK BLVD  
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TO REORDER CALL 1 (888) 234-5678

**METHANE 500ppm  
AIR BALANCE**

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG  
Lot# 260447  
P/N MET-500-103L

EXP: JAN/2025

TVA

**EQUIPCO** SALES & SERVICE

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

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

Analytical Accuracy +/- 2%

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

EXP: JAN/2025

TVA  
zero

# Intermountain Specialty Gases

520 N. Kings Road  
Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



"Your calibration gas manufacturer since 1992"

## CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
--------------------	----------------------	----------------------------------

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

MicroSupply



Service  
INC

Concentration (Mole%) Accuracy

- 20.9% Oxygen
- Bal. Nitrogen

CONTENTS: 3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp. Date  
7/10/2024

Lot#: 20-7421

P/N: 01-100

**103 L**

1391 Kaiser Avenue, Irvine, CA 92614

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



CONTAINS...  
Please wear...  
Use a...  
DO NOT...  
Federal...  
SDS:...

103-01-100  
Oxygen

**103 L**

Lot #





# INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

---

## CERTIFICATE OF ANALYSIS

---

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
--------------	----------------

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

Supply Service INC.

Concentration (Mole%) Accuracy  
+/- 5%  
(CH<sub>4</sub>) - 25 ppm  
Balance

Methane



CONTAINS GAS UNDER PRESSURE  
Read label before use. Use only as directed on label at hand. Use appropriate PPE.  
Do not handle until all safety instructions are read. Do not use if you do not have appropriate protective gloves, protective clothing, eye protection, and face protection.  
Use a back flow preventer when connecting to a system. Close valve slowly. Close valve after use. Do not use if you do not have appropriate PPE.  
Dispose of contents in accordance with applicable regulations.  
DO NOT REMOVE THIS LABEL  
Federal law forbids transportation in interstate commerce unless accompanied by a label (49 CFR 171.15-171.16). Federal law prohibits disposal unless accompanied by a label (49 CFR 173.34).

Pressure: 3.6 MPa @ 70°F and 1,000 PSIG

Exp Date  
7/19/2024

Lot#: 17-6074

P/N: 23-0025

**103 L**

103 Kaiser Avenue, Irvine, CA 92614  
949-23-0025 or (800) 201-8150 Fax (949) 757-0363

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

**103 L**

Lot #  
17-6074



COA



2 of 2



# INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

---

## CERTIFICATE OF ANALYSIS

---

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
--------------	----------------

Mfg. Date: 10/16/2017

Parent Cylinder ID 17161

Number:

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

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

Analysis By: Tony Janquart

Quality Assurance Manager

800-552-5003

Certificate Date: 10/16/2017

MicroSupply Service INC.

Concentration (Mole%) Accuracy  
Methane (CH<sub>4</sub>) - 25 ppm  
Balance +/- 5%

Contents: 3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
4/27/12

Lot#: 17-6074

P/N:23-0025

103 L

71 Kaiser Avenue, Irvine, CA 92614  
949-23-0053 or (800) 201-8150 Fax (949) 757-0363

Methane



CONTAINS GAS  
Read label before use  
label at hand. Use  
Do not handle with  
protective gloves  
Use a back flow preventer  
slowly. Close valve  
sunlight when not in  
use  
Dispose of contents  
DO NOT REWELD  
Federal law prohibits  
5124). Federal

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

103 L

Lot #  
17-6074



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

# Intermountain Specialty Gases

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Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



"Your calibration gas manufacturer since 1992"

## CERTIFICATE OF ANALYSIS

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

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

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

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

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

Supply Service INC.

Concentration (Mole%) Accuracy  
± 500 ppm  
Balance  
+/- 2%

Exp Date  
7/10/2024

70°F and 1,000 PSIG

Lot#: 20-7497

P/N:23-0500

103 L

Avenue, Irvine, CA 92614  
Phone (800) 201-8150 Fax (949) 757-0363

Methane (0.000)



WASP

CONTAINS GAS UNDER PRESSURE

Read label before use. Keep out of children's reach. Keep label at hand. Use equipment rated for use with this gas.

Do not handle until all safety precautions are read. Wear protective gloves, protective clothing.

Use a back flow preventive device in the line. Open valves slowly. Close valves after each use. Do not use in direct sunlight when ambient temperature is above 100°F.

Dispose of content and/or container in accordance with applicable regulations.

DO NOT REMOVE THIS PRODUCT LABEL

Federal law forbids transportation of this product in a motor vehicle (49 CFR 173.301). Federal law prohibits selling this product in a motor vehicle.

101-23-0500  
± 500 ppm/  
Nitrogen

103 L

Lot #  
20-2497

COA



4 of 4



A DIVISION OF NORCO, INC.

### Calibration Gases & Equipment

## CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd  
Sterling Hights MI 48312

Cust Number 07152  
Order Number 69671309  
PO Number 08361523

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

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

Customer Part# N/A

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

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

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

NIST Tracable Numbers are available upon request.

Approved:

David Reed  
Lab Technician

Date Signed:

6/10/2022



800.962.7837  
www.premiersafety.com

33596 Sterling Road  
Sterling Heights, MI

Components	Concentration (Mole-%)
Methane	500 ppm
Air	Balance

Lot#: 2-108-80

Accuracy: +/- 2 %

Part: J1971500PA

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

MFG Date: 5/5/2022

Exp. Date: 05/2025

**CALIBRATION GAS**







A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

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

Cust Number WH012
Order Number 71846398
PO Number 04A35563

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

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

Customer Part# N/A

Table with 3 columns: Component, Reported Concentration, Requested Concentration. Rows for Methane and Air.

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: [Signature] Date Signed: 4/7/2023
Jeff Korn
Lab Technician



800.962.7837  
www.premiersafety.com

33596 Sterling Road  
Sterling Heights, MI

**Components** **Concentration (Mole %)**

Methane  
Air

500 ppm  
Balance

Lot#: 3-088-88

Accuracy: +/- 2 %

Part: J1971500PA

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

MFG Date: 4/7/2003

Exp. Date: 04/2007

**CALIBRATION GAS**



A DIVISION OF NORCO, INC.

### Calibration Gases & Equipment

## CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd  
Sterling Hights MI 48312

Cust Number 07152  
Order Number 69679439  
PO Number 04906817

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

David Reed  
Lab Technician

Date Signed:

6/13/2022



800.962.7837  
www.premiersafety.com

33596 Sterling  
Sterling Heights

**Components**

**Concentration (Methane)**

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

Zero Grade  
20.9 %  
< 1.0 ppm  
Balance

Date: 2-15-85

Accuracy: Certified

Part: J1002

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

MFG Date: 6/13/2022

Exp. Date: 06/2025

**CALIBRATION GAS**





## Calibration Gases & Equipment

### CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd  
Sterling Hights MI 48312

Cust Number 07152  
Order Number 73732858  
PO Number 04B70733

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

  
\_\_\_\_\_  
Aaron Schwenken  
Lab Manager

Date Signed:

12/7/2023



800.962.7837  
www.premiersafety.com

33596 Stainless  
Steeling Heads

**Components**

Methane  
Air

**Concentration (Mixture)**

500 ppm  
Balance

Lot#: 3-340-61

Accuracy: +/- 2 %

Part: J1971500PA

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

MFG Date: 12/7/2008

Exp. Date: 12/2010

**CALIBRATION GAS**



Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling Hights MI 48312

Cust Number 07152
Order Number 73732858
PO Number 04B70733

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

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

Customer Part# N/A

Table with 3 columns: Component, Reported Concentration, Requested Concentration. Rows include Methane (25 ppm) and Air (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: [Signature] Date Signed: 12/7/2023
Aaron Schwenken
Lab Manager



800.962.7837  
www.premiersafety.com

33596 Sterling Parkway  
Sterling Heights, MI 48315

**Components**

**Concentration (Mole %)**

Methane  
Air

25 ppm  
Balance

Lot#: 3-340-62

Accuracy: +/- 5 %

Part: J197125PA

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

MFG Date: 12/7/2023

Exp. Date: 12/2027

**CALIBRATION GAS**





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

June 14, 2024

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

**Re: Second Quarter 2024 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 **Second Quarter 2024 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<sub>v</sub>) 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<sub>v</sub> (areas of concern) or 500 ppm<sub>v</sub> (exceedances) for instantaneous were recorded, flagged, and marked on an SEM Map, which, wherever required, is included in the Appendices of this report. Applicable corrective action and re-monitoring timelines are listed below:

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

If any location shows three exceedances, an additional well shall be installed within 120 days of the initial exceedance.

### **Integrated Surface Emissions Monitoring**

The Integrated surface monitoring was conducted using a TVA 1000 calibrated to 25 ppm<sub>v</sub> for the integrated monitoring, which meets or exceeds all guidelines set forth in the CCR Title 17 §95471(a). The field technician traversed the grid walking path over a continuous 25-minute period using the TVA 1000 held within 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<sub>v</sub> were recorded, marked on the SEM map, and flagged for remediation. Any grids with integrated concentrations greater than 25 ppm<sub>v</sub> are subject to the following re-monitoring timeline:

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

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

### **Component Leak Monitoring Procedures**

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<sub>v</sub>. All leaks measured one half inch or less from the component exceeding the compliance limit of 500 ppm<sub>v</sub> per requirements outlined in pursuant to CARB Title 17 of California Code of Regulations Subchapter 10, Article 4, Subarticle 6, Section 95464(b)(1)(B) and 1,000 ppm<sub>v</sub> per requirements outlined in BAAQMD 8-34-303 were recorded. Applicable corrective action and re-monitoring timelines are listed below:

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

### **SECOND QUARTER 2024 SEM AND COMPONENT LEAK RESULTS**

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

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

The Instantaneous surface monitoring was performed on April 24, 2024, in accordance with the NSPS, BAAQMD 8-34, NESHAP, and CCR Title 17 §95469 and ACO. Results and data from the monitoring are presented in Attachment A.

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

There were 7 exceedances of 500 ppm<sub>v</sub> as methane detected on April 24, 2024. Corrective actions to initiate repairs of the exceedances were completed within five days for all locations (on April 24, 2024).

#### *Ten-Day Re-Monitoring Results*

The 10-day re-monitoring event was completed on April 24, 2024. All locations were observed at less than 500 ppm<sub>v</sub>.

#### *One-Month Re-Monitoring Results*

The 1-month re-monitoring event was completed on May 17, 2024. All locations were observed at less than 500 ppm<sub>v</sub>.

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

There were no readings between 200 ppm<sub>v</sub> and 499 ppm<sub>v</sub> as methane detected during the initial monitoring event on April 24, 2024. Pursuant to CCR Title 17 §95471(c), instantaneous surface emissions exceeding 200 ppm<sub>v</sub> but below 500 ppm<sub>v</sub> are required to be recorded.

**Integrated Surface Emissions Monitoring Results**

The Integrated surface sampling (ISS) was performed on April 23 and 24, 2024, in accordance with the ACO and requirements outlined in CCR Title 17 §95469.

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

There were no grids with exceedances of 25 ppm<sub>v</sub> as methane detected during the initial monitoring event on April 23 and 24, 2024.

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

**Component Leak Monitoring Results**

Component leak monitoring was conducted per the applicable requirements on April 24, 2024. No leaks greater than 500 ppm<sub>v</sub> 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<sub>v</sub> in air for integrated sample analyses and 500 ppm<sub>v</sub> in air for instantaneous monitoring to comply with the requirements.

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

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

Thank you,  
Waste Management

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

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**

**2024 QUARTER:** 2

**PERFORMED BY:** RES

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

Flag Number	Grid Number	Date of Monitoring	Concentration of Emission (ppmv)	Comments-Wells
O1	89	4/24/2024	850	75
O2	81	4/24/2024	650	151
O3	72	4/24/2024	850	147
O4	53	4/24/2024	905	121
O5	75	4/24/2024	1,002	142
O6	89	4/24/2024	910	82
O7	99	4/24/2024	5,813	169



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

2024 QUARTER: 2

INITIAL MONITORING PERFORMED BY RES

FOLLOW-UP MONITORING PERFORMED BY: KCRDF-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	
O1	4/24/2024	850	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	17		5/17/2024	26		75
O2	4/24/2024	650	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	24		5/17/2024	33		151
O3	4/24/2024	850	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	112		5/17/2024	41		147
O4	4/24/2024	905	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	5		5/17/2024	18		121
O5	4/24/2024	1,002	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	10		5/17/2024	23		142
O6	4/24/2024	910	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	21		5/17/2024	30		82
O7	4/24/2024	5,813	4/24/2024	Added soil, water and compacted, tuned	4/24/2024	18		5/17/2024	27		169

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

**2024 QUARTER:** 2

**INITIAL MONITORING PERFORMED BY:** RES

**FOLLOW-UP MONITORING PERFORMED BY:** KCRDF-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	Monitoring	Field	Monitoring	No Exced.	Exced.	Monitoring	No Exced.	Exced.	
Grid ID No.	Date	Reading	Date	<500 ppm	>500 ppm	Date	<500 ppm	>500 ppm	
O1	4/24/2024	850	4/24/2024	17					75
O2	4/24/2024	650	4/24/2024	24					151
O3	4/24/2024	850	4/24/2024	112					147
O4	4/24/2024	905	4/24/2024	5					121
O5	4/24/2024	1,002	4/24/2024	10					142
O6	4/24/2024	910	4/24/2024	21					82
O7	4/24/2024	5,813	4/24/2024	18					169

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

**2024 QUARTER:** 2

**INITIAL MONITORING PERFORMED BY:** RES

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

**LANDFILL NAME:** 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					



## KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LOIS WADDE BYRON GARDNERSON  
MIGUEL ESTANOLA ANTHONY CANALES  
JERRY MUÑOZ

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

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

Temperature: 49 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	0705	0720	106	3	5	16	
37	ME	0705	0720	82	3	5	16	
38	JA	0705	0720	94	3	5	16	
41	FA	0705	0720	57	3	5	16	
42	AC	0705	0720	128	3	5	16	
43	LW	0720	0735	65	3	4	12	
44	ME	0720	0735	39	3	4	12	
47	JA	0720	0735	57	3	4	12	
48	FA	0720	0735	86	3	4	12	
49	AC	0720	0735	77	3	4	12	
52	LW	0735	0750	45	4	6	14	
53	ME	0735	0750	64	4	6	14	
54	JA	0735	0750	79	4	6	14	
55	FA	0735	0750	40	4	6	14	
57	AC	0735	0750	18	4	6	14	
58	LW	0750	0805	47	2	4	14	
59	ME	0750	0805	61	2	4	14	
60	JA	0750	0805	89	2	4	14	
61	FA	0750	0805	44	2	4	14	
64	AC	0750	0805	12	2	4	14	
65	LW	0805	0820	51	4	6	14	
66	ME	0805	0820	78	4	6	14	
67	JA	0805	0820	115	4	6	14	
68	FA	0805	0820	34	4	6	14	
70	AC	0805	0820	17	4	6	14	
71	LW	0820	0835	40	4	6	14	
72	ME	0820	0835	66	4	6	14	
73	JA	0820	0835	89	4	6	14	
74	FA	0820	0835	37	4	6	14	
75	AC	0820	0835	28	4	6	14	

Attach Calibration Sheet  
 Attach site map showing grid ID

# KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: COY HOWARD ALAN ANDERSON  
MICHAEL BOSTON ANTHONY LANDOLFI  
JERRY MUMFORD

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

Date: 4-24-24 Instrument Used: FVA1000 Grid Spacing: 25'

Temperature: 55 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
79	LW	0835	0850	19	3	4	14	
80	ME	0835	0850	72	3	4	14	
81	JM	0835	0850	95	3	4	14	
82	FA	0835	0850	134	3	4	14	
83	AL	0835	0850	47	3	4	14	
85	LW	0850	0905	39	4	6	14	
86	ME	0850	0905	64	4	6	14	
87	JM	0850	0905	99	4	6	14	
88	FA	0850	0905	37	4	6	14	
89	AL	0850	0905	42	4	6	14	
90	LW	0905	0920	35	5	7	16	
93	ME	0905	0920	65	5	7	16	
94	JM	0905	0920	71	5	7	16	
97	FA	0905	0920	38	5	7	16	
100	AL	0905	0920	62	5	7	16	
101	LW	0920	0935	94	5	7	14	
104	ME	0920	0935	51	5	7	14	
105	JM	0920	0935	26	5	7	14	
109	FA	0920	0935	45	5	7	14	
112	AL	0920	0935	32	5	7	14	
116	LW	0935	0950	54	4	6	14	
119	ME	0935	0950	27	4	6	14	
120	JM	0935	0950	34	4	6	14	
124	FA	0935	0950	45	4	6	14	
127	AL	0935	0950	31	4	6	14	
128	LW	0950	1005	26	2	3	12	
132	ME	0950	1005	45	2	3	12	
133	JM	0950	1005	77	2	3	12	
134	FA	0950	1005	60	2	3	12	
135	AL	0950	1005	51	2	3	12	

Attach Calibration Sheet  
 Attach site map showing grid ID

**KIRBY LANDFILL  
INSTANTANEOUS LANDFILL SURFACE MONITORING**

Personnel: LWISHWAOR LY/EX GRADISON  
MIGUEL ESTACOS ANTHONY CANOLAS  
JERRY MUMFORD

Cal. Gas Exp Date: 11-10-24

Date: 4-24-24 Instrument Used: LV A1000 Grid Spacing: 25'

Temperature: 55 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
136	LW	1005	1020	35	3	5	14	
137	ME	1005	1020	42	3	5	14	
138	JM	1005	1020	26	3	5	14	
139	TA	1005	1020	41	3	5	14	
140	AC	1005	1020	68	3	5	14	
141	LW	1020	1035	32	4	6	14	
142	ME	1020	1035	21	4	6	14	
143	JM	1020	1035	27	4	6	14	
144	TA	1020	1035	58	4	6	14	
145	AE	1020	1035	71	4	6	14	
146	LW	1035	1050	60	4	5	14	
147	ME	1035	1050	53	4	5	14	
148	JM	1035	1050	45	4	5	14	
149	TA	1035	1050	67	4	5	14	
150	AC	1035	1050	42	4	5	14	
76	LW	1050	1105	70	3	5	14	
77	ME	1050	1105	51	3	5	14	
84	JM	1050	1105	89	3	5	14	
91	TA	1050	1105	106	3	5	14	
92	AC	1050	1105	140	3	5	14	
98	LW	1105	1120	120	5	7	14	
99	ME	1105	1120	97	5	7	14	
106	JM	1105	1120	85	5	7	14	
107	TA	1105	1120	170	5	7	14	
113	AC	1105	1120	65	5	7	14	
121	LW	1120	1135	92	4	6	14	
129	ME	1120	1135	58	4	6	14	

Attach Calibration Sheet  
 Attach site map showing grid ID

# KIRBY LANDFILL INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: LEIGHMAN

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

Date: 4-24-24 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
95								Active-fires?
96								
102								
103								
110								
111								
117								
118								
125								
126								
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: LEISHNADE

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

Date: 4-24-24 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
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  
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS**

Year: 2024  
Quarter: 2ND

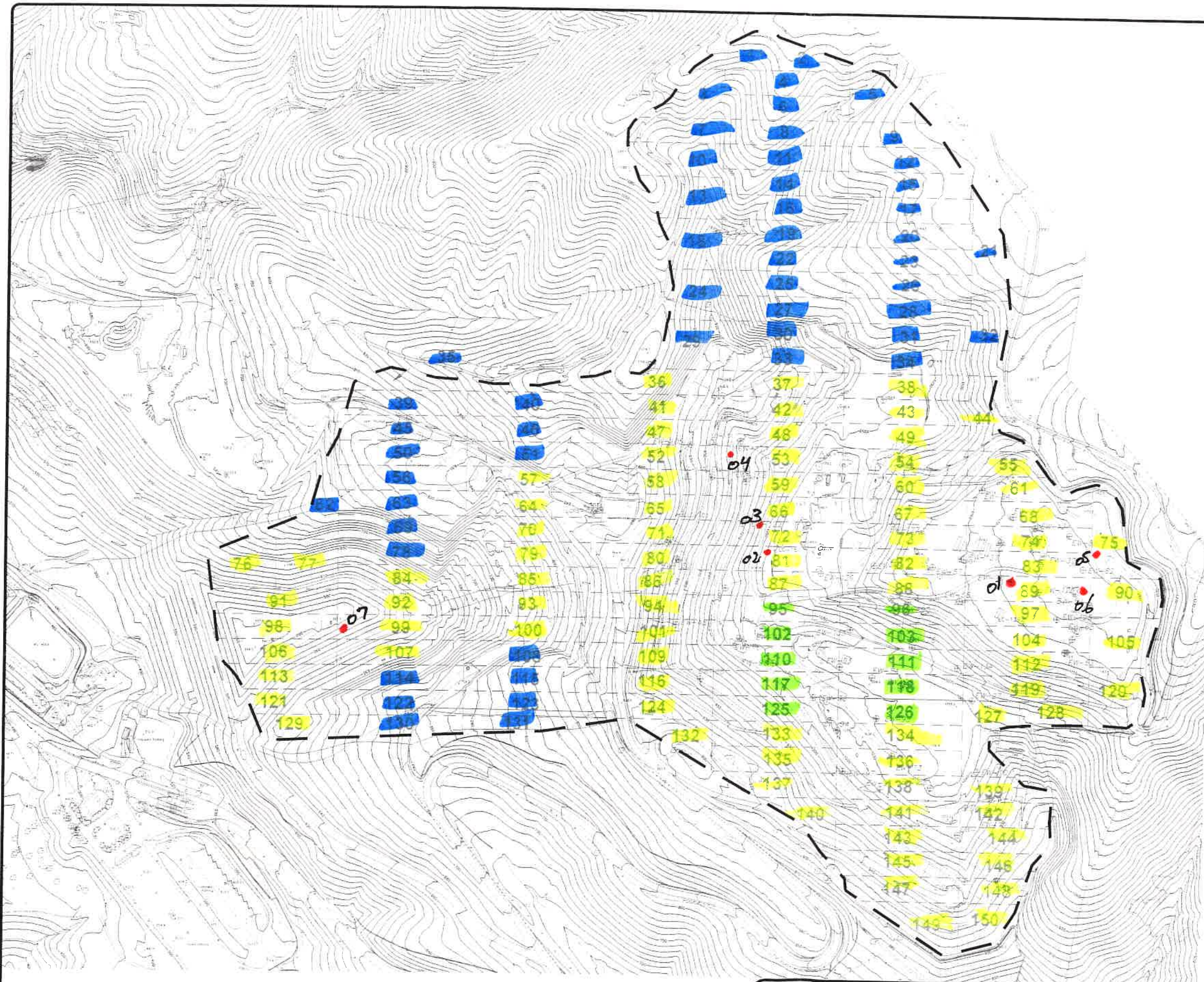
IME Date	Time	IME Location ID	IME Concentration (ppm)
4-24-24	0601	KCLC0108	39
	0630	KCLC0109	20
	0640	KCLC0110	51
	0621	KCLC0111	24
	0610	KCLC0112	46
	0635	KCLC0139	87
	0614	KCLC0140	16
	0638	KCLC0141	71
	0631	KCLC0142	1,062
	0607	KCLC0143	30
	0631	KCLC0145	47
	0640	KCLC0147	880
	0620	KCLC0149	35
	0618	KCLC0151	650
	0612	KCLC0152	21
	0637	KCLC0153	24
	0609	KCLC0154	65
	0637	KCLC0155	29
	0620	KCLC0156	113
	0650	KCLC0157	81
	0618	KCYN0014	47
	0622	KCYN0027	45
	0614	KCYN0048	26
	0655	KCYN0051	57
	0647	KCYN0054	22
	0620	KCYN0056	18
	0610	KCYN0057	30
	0636	KCYN0058	46
	0620	KCYN0062	75
	0603	KCYN0063	51
	0638	KCYN0065	37
	0647	KCYN0066	26
0611	KCYN0070	45	
0610	KCYN0071	26	
0636	KCYN0072	18	
0605	KCYN0074	51	
0647	KCYN0075	850	
0613	KCYN0076	29	
0627	KCYN0078	81	
0645	KCYN0082	910	

**KIRBY LANDFILL  
PENETRATION SCAN RESULTS, EXCEEDANCES, AND CORRECTIVE ACTIONS**

Year: 2024  
Quarter: 2ND

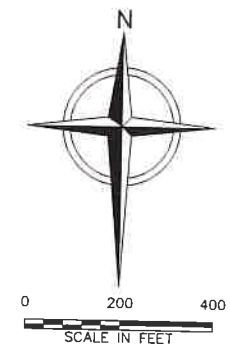
IME Date	Time	IME Location ID	IME Concentration (ppm)
	0630	KCYN0084	31
	0607	KCYN0086	54
	0645	KCYN0087	81
	0632	KCYN0088	27
	0614	KCYN0089	36
	0627	KCYN0090	55
	0603	KCYN0091	40
	0620	KCYN0092	25
	0637	KCYN0093	36
	0634	KCYN0094	30
	0615	KCYN0095	39
	0631	KCYN0097	27
	0620	KCYN0098	26
	0636	KCYN0099	39
	0609	KCYN0101	47
	0627	KCYN0102	18
	0655	KCYN0103	20
	0631	KCYN0105	26
	0607	KCYN0118	51
	0610	KCYN0119	39
	0618	KCYN0121	905
	0647	KCYN0122	25
	0627	KCYN0123	77
	0624	KCYN0124	40
	0650	KCYN0125	60
	0630	KCYN0126	28
	0624	KCYN0127	30
	0641	KCYN0128	51
	0651	KCYN0129	66
	0605	KCYN0130	27
	0618	KCYN0131	35
	0647	KCYN0133	18
	0639	KCYN0134	28
	0650	KCYN0135	61
	0607	KCYNLR04	32
	0639	KCYNLR08	21
	0631	KCYNLR11	64
	0610	KCYN0162	45
	0605	KCYN0163	20
	0645	KCYN0164	54





**LEGEND**

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



- 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.

*Instantaneous 4-24-24*

- GRIDS MONITORED
- Active-flash
- No waste in place
- sbootppn

File: X:\PROJECTS\KIRBY CANON\200125 - 2020 AS-BUILT UPDATE\Project4\_Docs\200125-AS-BUILT.dwg Layer: 53 User: DICKSEA\DMK Rev: 13, 2020 - 9:39am



REV	DATE	DESCRIPTION	CHKD BY	DES BY	APP BY
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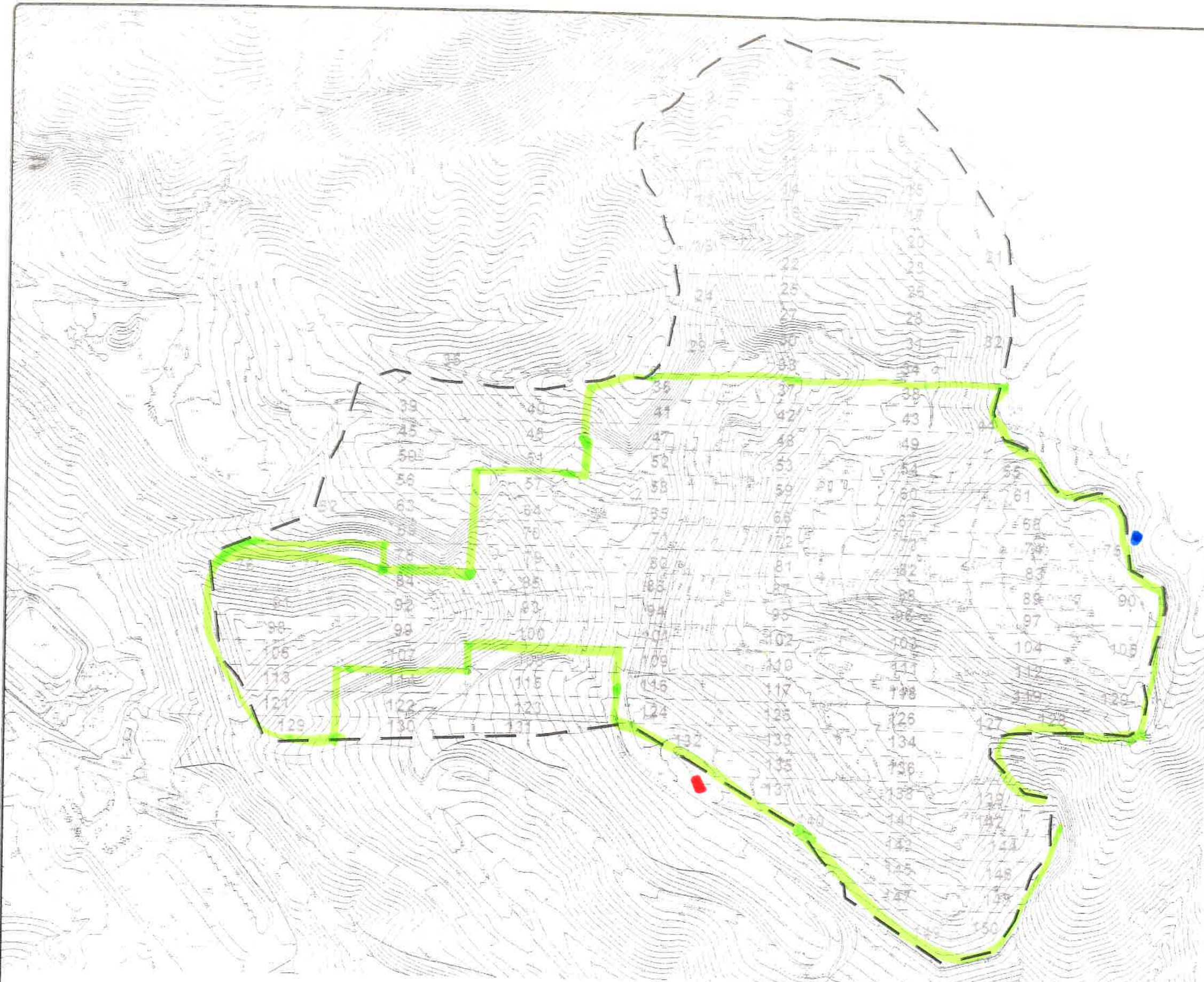


**FINAL AS-BUILT**

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

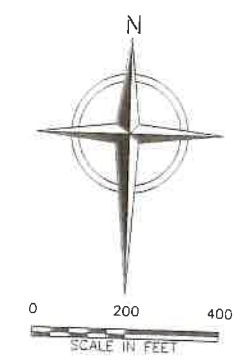
**SEM GRID MAP**

SHEET NO.  
**3**  
PROJECT NO.  
200125



**LEGEND**

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



**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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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.

*2ND QTR NSPS*  
*PERIMETER SWEEP*  
 ● UPWIND  
 ● DOWNWIND



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY
1	11/25/2020					



**FINAL AS-BUILT**  
 KIRBY CANYON RECYCLING AND DISPOSAL FACILITY  
 SAN JOSE, CALIFORNIA  
 2020 GCCS IMPROVEMENTS  
 SEM GRID MAP

SHEET NO  
**3**  
 PROJECT NO  
 200125

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**Attachment B**

Integrated Surface Emission Monitoring Event Records

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

**2024 QUARTER:** 2  
**INITIAL MONITORING PERFORMED BY:** RES  
**FOLLOW-UP MONITORING PERFORMED BY:** N/A  
**LANDFILL NAME:** Kirby Canyon Recycling & Disposal Facility

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



**KIRBY LANDFILL  
INTEGRATED LANDFILL SURFACE MONITORING**

Personnel: LEISHWOOD tylva gubonov  
MEGHEZ BSTRACON Anthony cavolles  
JERRY MURRIZ

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

Date: 4-23-24 Instrument Used: VA1000 Grid Spacing: 25'

Temperature: 65 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
36	LW	1245	1310	20.71	2	3	16	
37	ME	1245	1310	18.55	2	3	16	
38	JM	1245	1310	16.39	2	3	16	
41	TA	1245	1310	12.36	2	3	16	
42	AC	1245	1310	21.24	2	3	16	
43	LW	1310	1335	13.75	2	3	4	
44	ME	1310	1335	9.84	2	3	4	
47	JM	1310	1335	11.62	2	3	4	
48	TA	1310	1335	17.50	2	3	4	
49	AC	1310	1335	15.47	2	3	4	
52	LW	1335	1400	10.20	1	2	12	
53	ME	1335	1400	13.60	1	2	12	
54	JM	1335	1400	12.98	1	2	12	
55	TA	1335	1400	8.64	1	2	12	
57	AC	1335	1400	5.32	1	2	12	
58	LW	1400	1425	9.71	2	2	6	
59	ME	1400	1425	11.40	2	2	6	
60	JM	1400	1425	13.49	2	2	6	
61	TB	1400	1425	8.70	2	2	6	
64	AC	1400	1425	5.32	2	2	6	
65	LW	1425	1450	8.40	1	2	6	
66	ME	1425	1450	9.61	1	2	6	
67	JM	1425	1450	12.52	1	2	6	
68	TA	1425	1450	9.68	1	2	6	
70	AC	1425	1450	6.10	1	2	6	
71	LW	1450	1515	8.46	2	3	4	
72	ME	1450	1515	7.92	2	3	4	
73	JM	1450	1515	8.50	2	3	4	
74	TA	1450	1515	6.47	2	3	4	
75	AC	1450	1515	5.81	2	3	4	

Attach Calibration Sheet  
 Attach site map showing grid ID



# KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

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

Date: 4-23-24 Instrument Used \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
95								Active-trail
96								↓
102								
103								
110								
111								
117								
118								
125								
126								
1								
2								↓
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
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14								
15								
16								
17								
18								
19								
20								

Attach Calibration Sheet  
 Attach site map showing grid ID

# KIRBY LANDFILL INTEGRATED LANDFILL SURFACE MONITORING

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

Date: 4-23-24 Instrument Used: \_\_\_\_\_ Grid Spacing: \_\_\_\_\_

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

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
21								}
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
39								
40								
45								
46								
50								
51								
56								
63								
62								
75								
78								
108								
114								
115								
122							5	

Attach Calibration Sheet  
 Attach site map showing grid ID



**KIRBY LANDFILL  
INTEGRATED LANDFILL SURFACE MONITORING**

Personnel: LEIGHWOOD TYLER ANDERSON  
MIGUEL ESTACON ANTHONY CANALES  
JERRY MURPHY Cal. Gas Exp. Date: 11-10-24

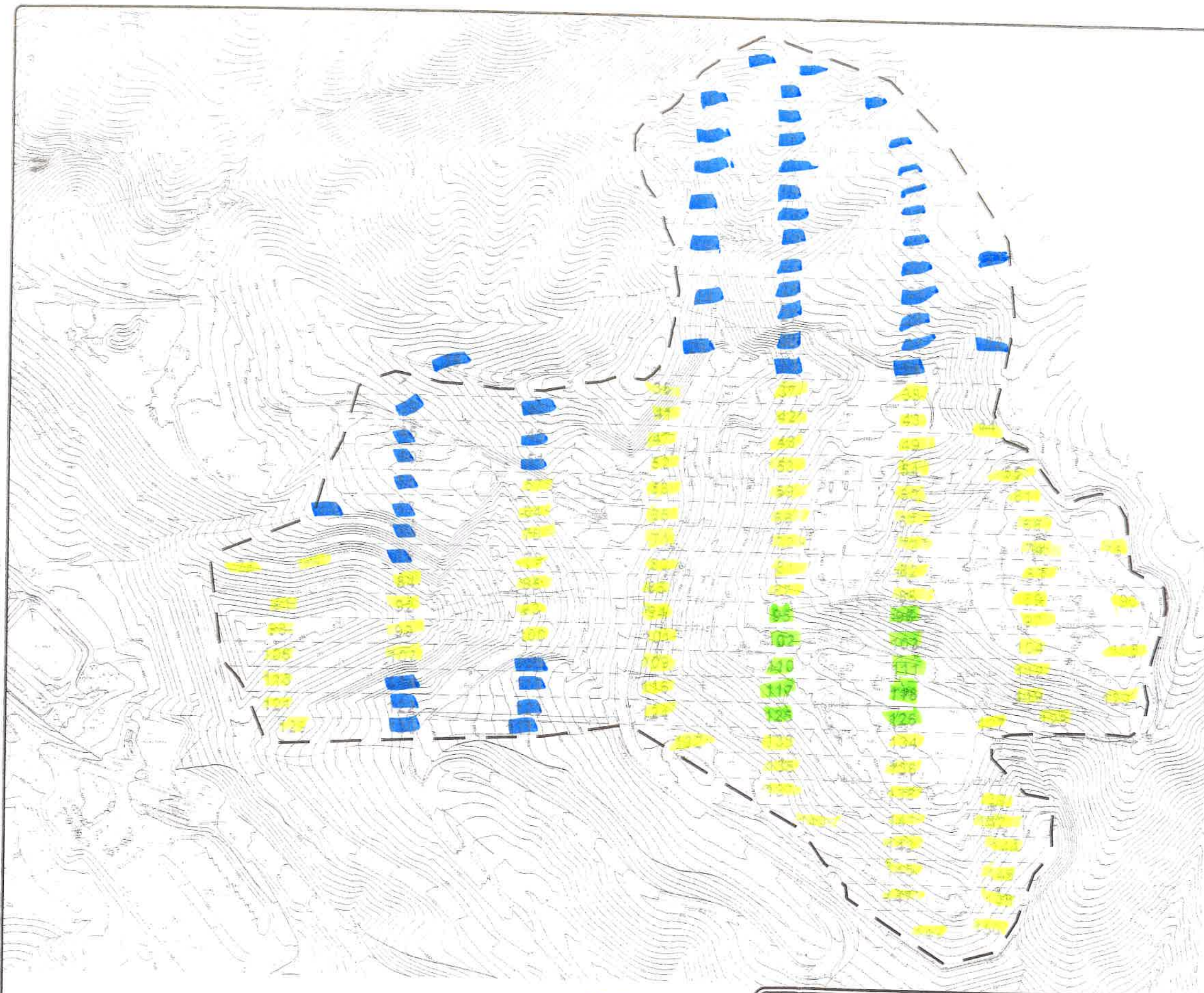
Date: 4-24-24 Instrument Used: VUA1000 Grid Spacing: 25'

Temperature: 70 Precip: 0 Upwind BG: 2.0 Downwind BG: 2.2

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	WIND INFORMATION			REMARKS
					AVG SPEED	MAX. SPEED	DIRECTION 16 POINT	
100	LW	1145	1210	7.45	4	5	14	
101	ME	1145	1210	9.12	4	5	14	
104	JM	1145	1210	6.30	4	5	14	
109	TA	1145	1210	6.07	4	5	14	
112	AC	1145	1210	9.35	4	5	14	
116	LW	1210	1235	7.51	2	3	14	
119	ME	1210	1235	6.94	2	3	14	
120	JM	1210	1235	8.56	2	3	14	
124	TA	1210	1235	7.98	2	3	14	
127	AC	1210	1235	6.13	2	3	14	
128	LW	1235	1310	5.42	4	5	14	
132	ME	1235	1300	9.67	4	5	14	
133	JM	1235	1300	8.12	4	5	14	
134	TA	1235	1300	9.27	4	5	14	
135	AC	1235	1300	7.16	4	5	14	
136	LW	1300	1325	6.84	4	5	14	
137	ME	1300	1325	7.95	4	5	14	
138	JM	1300	1325	6.88	4	5	14	
139	TA	1300	1325	6.50	4	5	14	
140	AC	1300	1325	7.13	4	5	14	
141	LW	1325	1350	6.97	3	5	14	
142	ME	1325	1350	6.10	3	5	14	
143	JM	1325	1350	5.47	3	5	14	
144	TA	1325	1350	6.79	3	5	14	
145	AC	1325	1350	6.81	3	5	14	
146	LW	1350	1415	7.13	4	5	14	
147	ME	1350	1415	6.25	4	5	14	
148	JM	1350	1415	6.54	4	5	14	
149	TA	1350	1415	5.47	4	5	14	
150	AC	1350	1415	6.03	4	5	14	

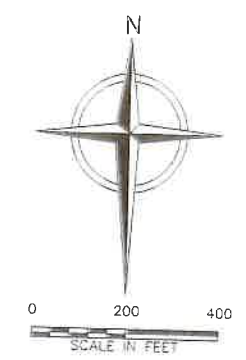
Attach Calibration Sheet  
 Attach site map showing grid ID





**LEGEND**

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



**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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7. SUPPLEMENTAL 2020 GCCS AS-BUILT MARKUPS/COMMENTS PROVIDED BY WM ON NOVEMBER 3, 2020, NOVEMBER 5, 2020 AND NOVEMBER 6, 2020

INTEGRATED 4-23-24  
4-24-24

- GRIDS MONITORED
- Active-trace
- NO WASTE IMPLUSE



REV	DATE	DESCRIPTION	DWN BY	DES BY	CHK BY	APP BY	
DATE OF ISSUE	11/12/2020	DRAWN BY	DVP	CHEKED BY	NS	APPROVED BY	MJS



**FINAL AS-BUILT**

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

**SEM GRID MAP**

SHEET NO  
**3**

PROJECT NO  
200125

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 Date: 11/12/2020  
 Time: 10:12:12 AM



**Attachment C**

Component Leak Monitoring Event Records

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

**2024 QUARTER:** 2  
**INITIAL MONITORING PERFORMED BY:** RES  
**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	04/24/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances

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

2024 QUARTER: 2

INITIAL MONITORING PERFORMED BY: RES

FOLLOW-UP MONITORING PERFORMED BY: NA

LANDFILL NAME: Kirby Canyon Recycling & Disposal Facility

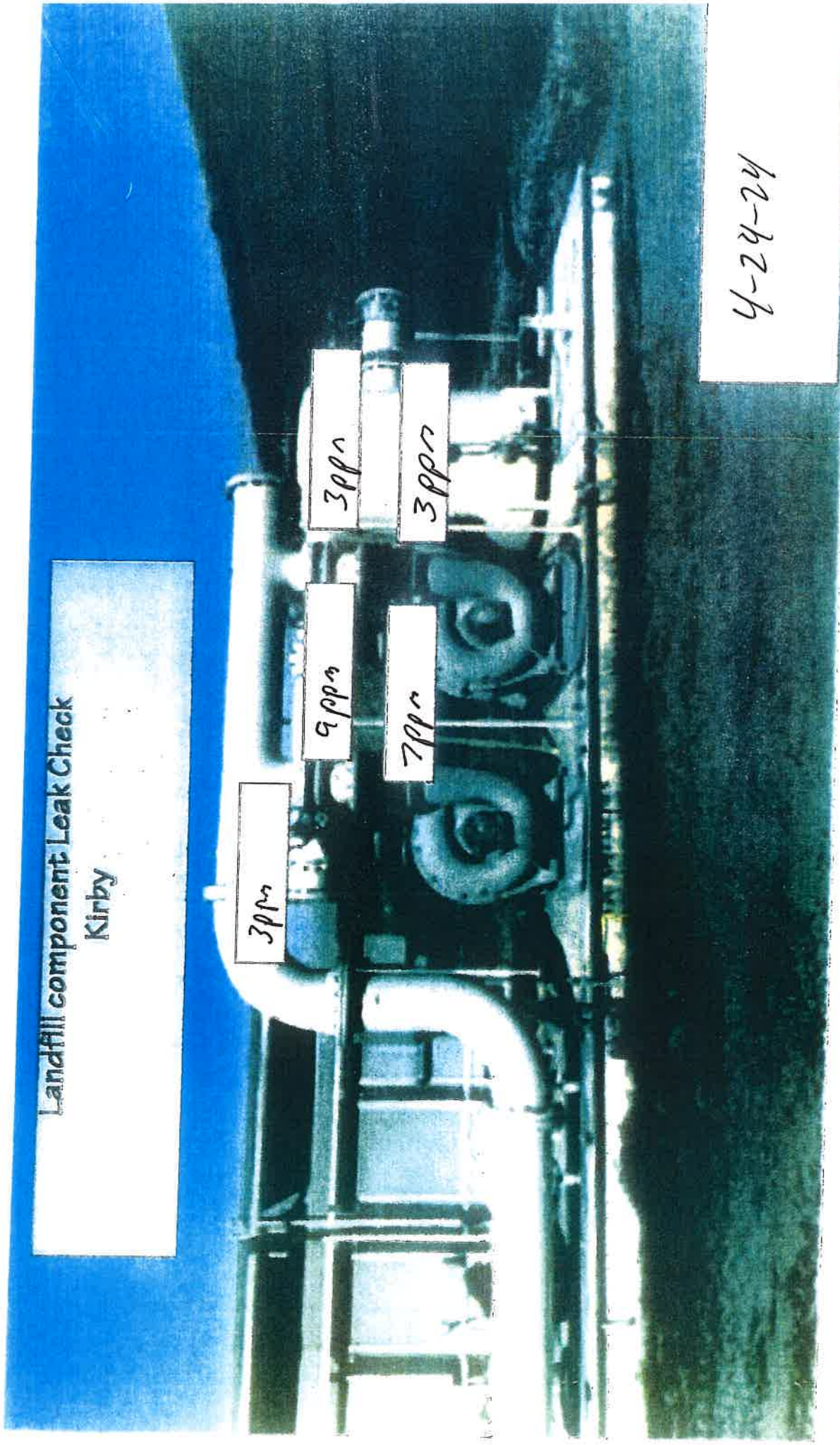
Location	Initial Monitoring			Corrective Action		7-Day Remonitoring		
	Date	TOC (ppmv)	Tech	Date	Description	Date	TOC (ppmv)	Tech
Flare Station	04/24/24	ND	Leigh wade	-	-	-	-	-

ND= No Exceedances



Landfill component Leak Check

Kirby



4-24-24

Landfill component Leak Check  
Kirby

5PP~

300~

300~

200~

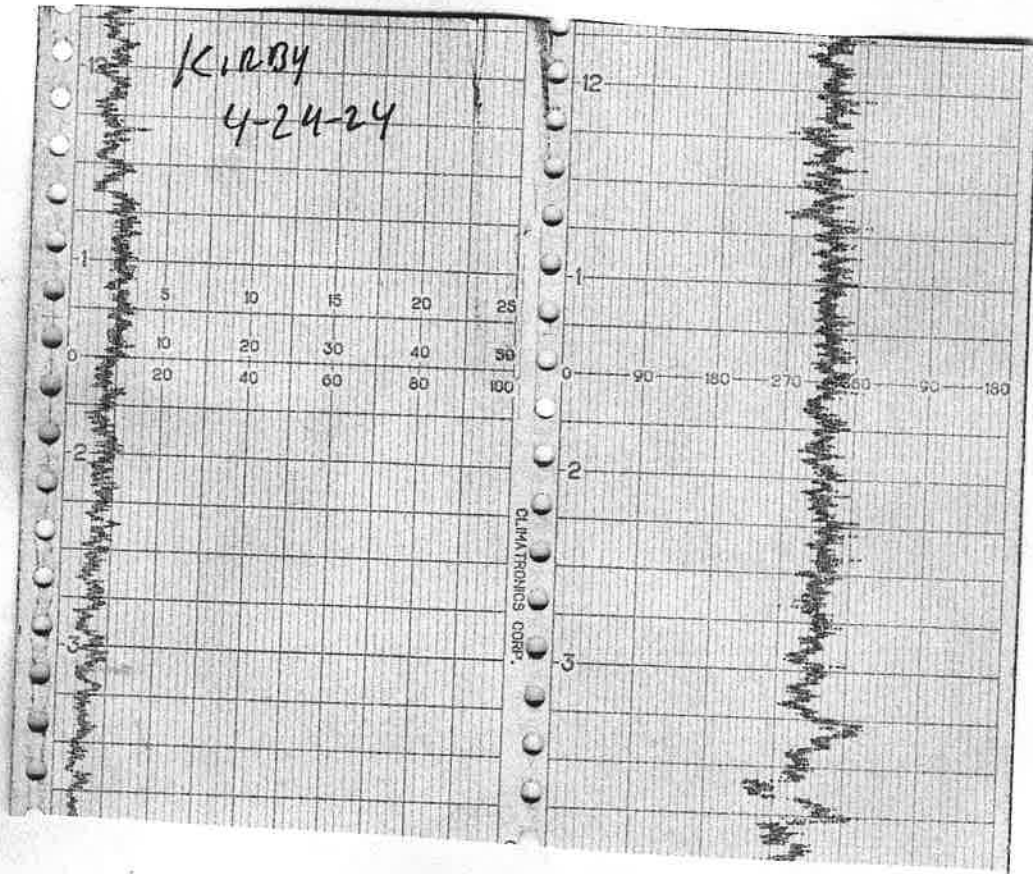
4-24-24



**Attachment D**

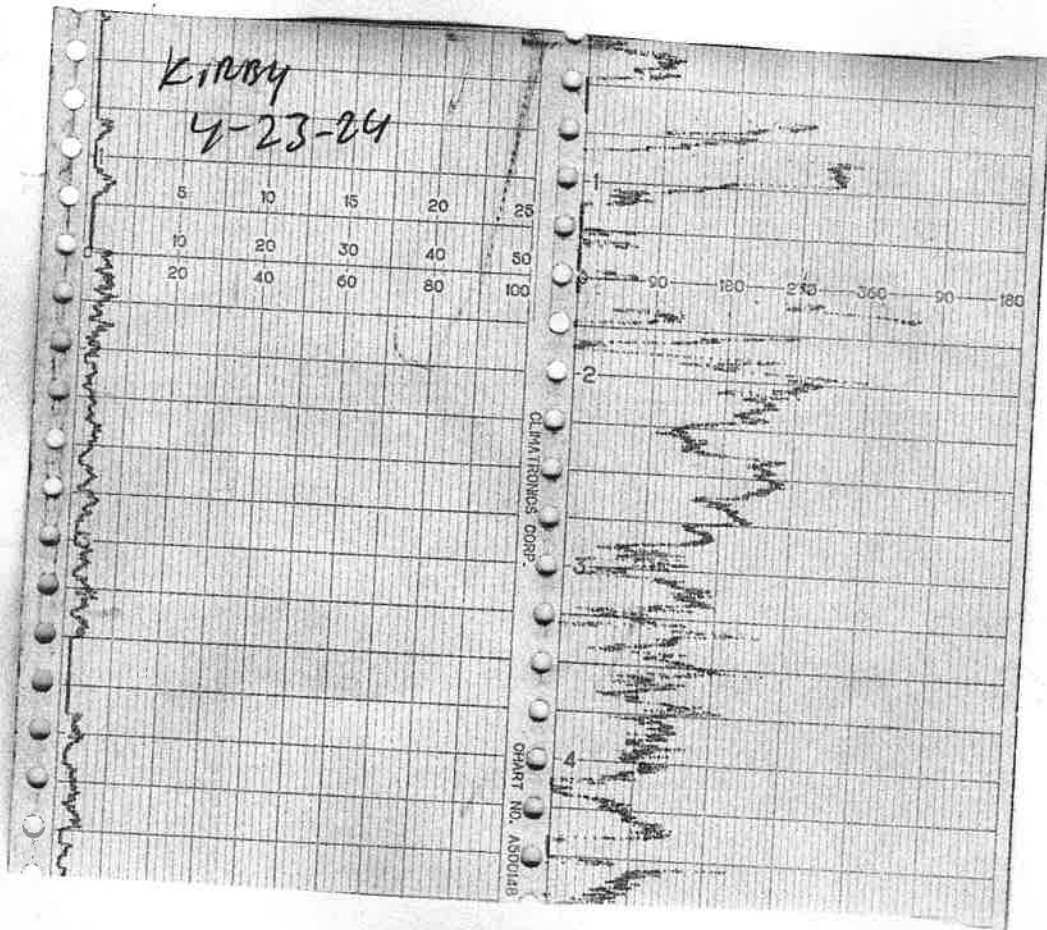
Weather Station Data

# WIND SPEED & DIRECTION CHART ROLL

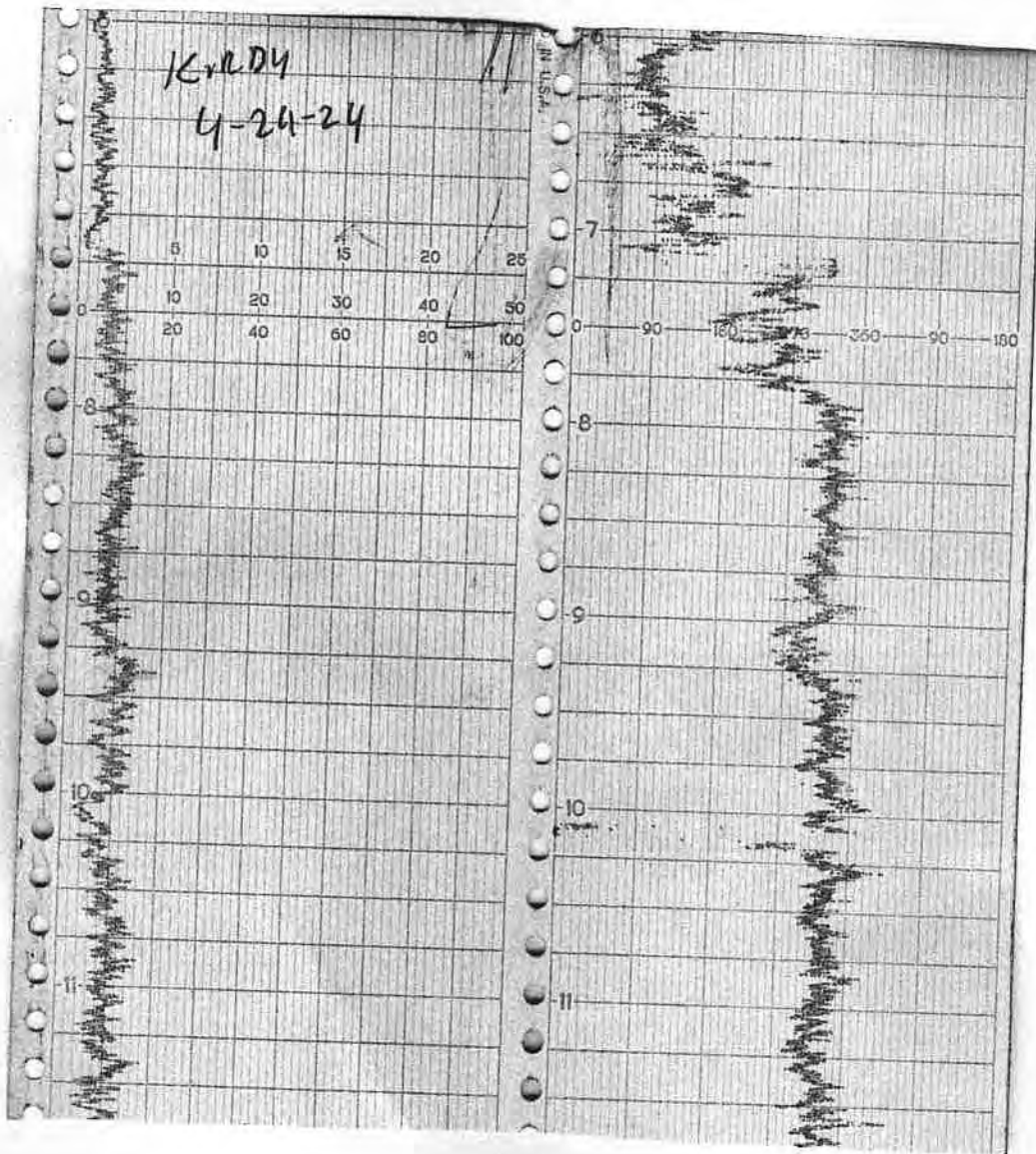




# WIND SPEED & DIRECTION CHART ROLL



# WIND SPEED & DIRECTION CHART ROLL



16-POINT WIND DIRECTION INDEX

<u>NO</u>	<u>DIRECTION</u>	<u>DEGREES</u>		
		<u>FROM</u>	<u>CENTER</u>	<u>TO</u>
16	NORTH (N)	348.8	<u>360.0</u>	0.0
1	NORTH-NORTHEAST (NNE)	011.3	<u>022.5</u>	033.8
2	NORTHEAST (NE)	033.8	<u>045.0</u>	056.3
3	EAST-NORTHEAST (ENE)	056.3	<u>067.5</u>	078.8
4	EAST (E)	078.8	<u>090.0</u>	101.3
5	EAST-SOUTHEAST (ESE)	101.3	<u>112.5</u>	123.8
6	SOUTHEAST (SE)	123.8	<u>135.0</u>	146.3
7	SOUTH-SOUTHEAST (SSE)	146.3	<u>157.5</u>	168.8
8	SOUTH (S)	168.8	<u>180.0</u>	191.3
9	SOUTH-SOUTHWEST (SSW)	191.3	<u>202.5</u>	213.8
10	SOUTHWEST (SW)	213.8	<u>225.0</u>	236.3
11	WEST-SOUTHWEST (WSW)	236.3	<u>247.5</u>	258.8
12	WEST (W)	258.8	<u>270.0</u>	281.3
13	WEST-NORTHWEST (WNW)	281.3	<u>292.5</u>	303.8
14	NORTHWEST (NW)	303.8	<u>315.0</u>	326.3
15	NORTH-NORTHWEST (NNW)	326.3	<u>337.5</u>	348.8

**Attachment E**  
Calibration Records

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME KINDY INSTRUMENT MAKE: FHWA  
 MODEL FVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773  
 MONITORING DATE: 4-24-24 TIME: 0550

Calibration Procedure:

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe. Stabilized reading = 500 ppm
- 3 Adjust meter settings to read 500 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>490</u> ppm	<u>440</u> ppm	<u>6</u>
#2	<u>501</u> ppm	<u>451</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.11</u> ppm	<u>490</u> ppm	<u>10</u>
#2	<u>0.07</u> ppm	<u>501</u> ppm	<u>1</u>
#3	<u>0.04</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.23</u> #DIV/0! Must be less than 10%

Performed By: LEISHWADK Date/Time: 4-24-24-0550

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME KURBY INSTRUMENT MAKE FHWA  
 MODEL: VA1000 EQUIPMENT #: 11 SERIAL # 1036346772  
 MONITORING DATE 4-24-24 TIME: 0550

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>507</u> ppm	<u>457</u> ppm	<u>5</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.13</u> ppm	<u>507</u> ppm	<u>7</u>
#2	<u>0.10</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.08</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times 1 \times \frac{100}{500}$		<u>0.46</u> #DIV/0! Must be less than 10%

Performed By: MIGUEL ESTRADA Date/Time: 4-24-24-0550

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME KINBY INSTRUMENT MAKE 7HERN  
 MODEL FA1000 EQUIPMENT # 12 SERIAL #: 1036246741  
 MONITORING DATE 4-24-24 TIME 0550

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>490</u> ppm	<u>440</u> ppm	<u>6</u>
#2	<u>503</u> ppm	<u>453</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	<u>0.24</u> ppm	<u>490</u> ppm	<u>10</u>
#2	<u>0.06</u> ppm	<u>503</u> ppm	<u>3</u>
#3	<u>0.11</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.86</u> #DIV/0! Must be less than 10%

Performed By: JERRY MURDZ Date/Time: 4-24-24-0550

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME KIRBY INSTRUMENT MAKE HANNA  
 MODEL: FVA1000 EQUIPMENT # 13 SERIAL #: 1102746775  
 MONITORING DATE: 4-24-24 TIME: 0550

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 500 ppm
3. Adjust meter settings to read 500 ppm

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>495</u> ppm	<u>445</u> ppm	<u>4</u>
#2	<u>500</u> ppm	<u>450</u> ppm	<u>4</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	<u>0.13</u> ppm	<u>495</u> ppm	<u>5</u>
#2	<u>0.09</u> ppm	<u>500</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.33</u> #DIV/0! Must be less than 10%

Performed By: 4/ERANDERSON Date/Time: 4-24-24-0550



**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INSTANTANEOUS**

LANDFILL NAME KIRBY INSTRUMENT MAKE TEKNO  
 MODEL FA1000 EQUIPMENT # 16 SERIAL # 1102746776  
 MONITORING DATE 4-24-24 TIME 0550

**Calibration Procedure:**

- 1 Allow instrument to zero itself while introducing air
- 2 Introduce calibration gas into the probe. Stabilized reading = 500 ppm
- 3 Adjust meter settings to read 500 ppm

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>498</u> ppm	<u>448</u> ppm	<u>6</u>
#2	<u>502</u> ppm	<u>452</u> ppm	<u>6</u>
#3	<u>500</u> ppm	<u>450</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 500 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.12</u> ppm	<u>498</u> ppm	<u>2</u>
#2	<u>0.08</u> ppm	<u>502</u> ppm	<u>2</u>
#3	<u>0.06</u> ppm	<u>500</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{500} \times \frac{100}{1}$		<u>0.26</u> #DIV/0! Must be less than 10%

Performed By: ANTHONY CANOLOS Date/Time: 4-24-24-0550

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED**

LANDFILL NAME KINDY INSTRUMENT MAKE Hann  
 MODEL: LVA1000 EQUIPMENT #: 10 SERIAL #: 1036346773  
 MONITORING DATE: 4-23-24 TIME: 1240

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: $\frac{(\text{Upwind} + \text{Downwind})}{2}$
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>4</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>4</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>4</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	<u>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.08</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[\text{STD-B1}] + [\text{STD-B2}] + [\text{STD-B3}]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By: LEISHWADK Date/Time: 4-23-24 1240

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME: KURBY INSTRUMENT MAKE: HANNA  
 MODEL: LVA1000 EQUIPMENT #: 11 SERIAL #: 1036346772  
 MONITORING DATE: 4-23-24 TIME: 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.19</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.11</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.07</u> ppm	<u>25</u> ppm	<u>6</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By: Miguel Estroza Date/Time: 4-23-24-1240

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME KIRBY INSTRUMENT MAKE: HAMMO  
 MODEL: LVA100 EQUIPMENT #: 12 SERIAL #: 1036246741  
 MONITORING DATE: 4-23-24 TIME 1240

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.2</u> ppm	<u>2.0</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>7</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>7</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.17</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.10</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.03</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By: JERRY M6102 Date/Time 4-23-24 -1240

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME KINBY INSTRUMENT MAKE HANNO  
 MODEL: FVA1000 EQUIPMENT #: 13 SERIAL #: 1102746775  
 MONITORING DATE: 4-23-24 TIME 1240

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.11</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By: TYLER ANDERSON Date/Time: 4-23-24-1240

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KILBY INSTRUMENT MAKE HANNA  
 MODEL: WA1000 EQUIPMENT #: 16 SERIAL #: 1102746776  
 MONITORING DATE: 4-23-24 TIME: 1240

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	<u>0.20</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.14</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By: Anthony Canelos Date/Time: 4-23-24-1240

CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED

LANDFILL NAME: KIRBY INSTRUMENT MAKE HANNA  
 MODEL: LVA1000 EQUIPMENT #: 10 SERIAL #: 1036J46773  
 MONITORING DATE: 4-24-24 TIME: 1140

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value:  (Upwind + Downwind) 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	<u>0.21</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.08</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By: LESLIE Date/Time: 4-24-24 1140

CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME KERRY INSTRUMENT MAKE: THOR  
 MODEL: FVA1000 EQUIPMENT #: 11 SERIAL #: 1036346774  
 MONITORING DATE: 4-24-24 TIME: 1140

Calibration Procedure:

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.15</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.09</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By: Miguel Estaca Date/Time: 4-24-24-1140



CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED

LANDFILL NAME LCRBY INSTRUMENT MAKE Hann  
 MODEL: LVA1000 EQUIPMENT # 12 SERIAL #: 1036246741  
 MONITORING DATE 4-24-24 TIME: 1140

Calibration Procedure:

1. Allow instrument to zero itself while introducing air
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm

Background Determination Procedure

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

INSTRUMENT RESPONSE TIME RECORD

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>23</u> ppm	<u>20.7</u> ppm	<u>7</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>7</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			#DIV/0! Must be less than 30 seconds

CALIBRATION PRECISION RECORD

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.18</u> ppm	<u>23</u> ppm	<u>2</u>
#2	<u>0.11</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.07</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By: JERRY MAZUR Date/Time: 4-24-24-1140

**CALIBRATION PROCEDURE AND BACKGROUND REPORT - INTEGRATED**

LANDFILL NAME: ICMBY INSTRUMENT MAKE Hera  
 MODEL: LVA100 EQUIPMENT #: 13 SERIAL # 1102746775  
 MONITORING DATE: 4-24-24 TIME: 1140

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>6</u>
#2	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>6</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>6</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD - (B)]
#1	<u>0.10</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.05</u> ppm	<u>25</u> ppm	<u>0</u>
#3	<u>0.04</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>1.3</u> #DIV/0! Must be less than 10%

Performed By: tyloranderson Date/Time: 4-24-24-1140

**CALIBRATION PROCEDURE AND BACKGROUND REPORT – INTEGRATED**

LANDFILL NAME: KIRBY INSTRUMENT MAKE: THORNO  
 MODEL: FVA 1000 EQUIPMENT # 16 SERIAL #: 1102746776  
 MONITORING DATE 4-24-24 TIME: 1140

**Calibration Procedure:**

1. Allow instrument to zero itself while introducing air.
2. Introduce calibration gas into the probe. Stabilized reading = 25 ppm
3. Adjust meter settings to read 25 ppm.

**Background Determination Procedure**

Upwind Background Reading: (Highest in 30 seconds)	Downwind Background Reading: (Highest in 30 seconds)	Background Value: <u>(Upwind + Downwind)</u> 2
<u>2.0</u> ppm	<u>2.2</u> ppm	<u>2.1</u> ppm

Background Value = 2.1 ppm

**INSTRUMENT RESPONSE TIME RECORD**

Measurement #	Stabilized Reading Using Calibration Gas	90% of the Stabilized Reading	Time to Reach 90% of Stabilized Reading after switching from Zero Air to Calibration Gas
#1	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#2	<u>24</u> ppm	<u>21.6</u> ppm	<u>5</u>
#3	<u>25</u> ppm	<u>22.5</u> ppm	<u>5</u>
Calculate Response Time $\frac{(1+2+3)}{3}$			<u>5</u> #DIV/0! Must be less than 30 seconds

**CALIBRATION PRECISION RECORD**

Calibration Gas Standard = 25 ppm

Measurement #	Meter Reading for Zero Air (A)	Meter Reading for Calibration Gas (B)	Calculate Precision [STD – (B)]
#1	<u>0.26</u> ppm	<u>24</u> ppm	<u>1</u>
#2	<u>0.10</u> ppm	<u>24</u> ppm	<u>1</u>
#3	<u>0.08</u> ppm	<u>25</u> ppm	<u>0</u>
Calculate Precision	$\frac{[STD-B1] + [STD-B2] + [STD-B3]}{3} \times \frac{1}{25} \times \frac{100}{1}$		<u>2.6</u> #DIV/0! Must be less than 10%

Performed By: Anthony Cancelos Date/Time: 4-24-24-1140



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit #10

SERIAL NUMBER: 1036346773

TECHNICIAN: [Signature] DATE: 4-6-29

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,006	+/- 2500
< 1	ZERO GAS	0.071	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Van #11

SERIAL NUMBER: 1036346774

TECHNICIAN: MM DATE: 4-6-29

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,001	+/- 2500
< 1	ZERO GAS	0.069	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



Environmental Inc.

TVA1000B CALIBRATION VERIFICATION

CUSTOMER: RES Unit # 12

SERIAL NUMBER: 103624674

TECHNICIAN: MM

DATE: 4-6-24

GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	99	+/- 25
500	500	499	+/- 125
10000	10000	10,003	+/- 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.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit # 13

SERIAL NUMBER: 1102746775

TECHNICIAN: MM

DATE: 4-6-29

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,000	+/- 2500
< 1	ZERO GAS	0.68	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50	/	+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



# TVA1000B CALIBRATION VERIFICATION

Environmental Inc.

CUSTOMER: RES Unit #16

SERIAL NUMBER: 1102746776

TECHNICIAN: Mc My DATE: 4-6-24

## GAS CALIBRATION CHECK (PERFORMED AT ROOM TEMPERATURE)

FID			
METHANE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
100	100	100	+/- 25
500	500	500	+/- 125
10000	10000	10,111	+/- 2500
< 1	ZERO GAS	0.73	< 3
PID			
ISOBUTYLENE GAS NOMINAL (ppm)	CALIBRATION GAS (ppm)	TVA READING (ppm)	TOLERANCE (ppm)
50	50		+/- 12.5
100	100		+/- 25
500	500		+/- 125
< 1	ZERO GAS		< 3

All measurement standards are calibrated at scheduled intervals by the National Institute of Standards and Technology (NIST), or against certified standards, which are traceable to the National Institute of Standards and Technology.



**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: MM MM

Date: 4-6-24 Time: 0845

Model # 7CA-1000

Serial # #10 1036346773

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-6-24</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>6</u>	
		2.	<u>6</u>	
		3.	<u>5</u>	
		Average	<u>5.6</u>	
		Equal to or less than 30 seconds?	<input checked="" type="radio"/>	N
		Instrument calibrated to <u>City</u> gas.		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: Jim M

Date: 4-6-24 Time: 0900

Model # 70A 1000

Serial # #11 1036346274

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.7</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-6-24</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>5</u>		
		2. <u>5</u>		
		3. <u>5</u>		
		Average <u>5.0</u>		
		Equal to or less than 30 seconds?	<input checked="" type="radio"/> Y	N
		Instrument calibrated to <u>CH<sub>4</sub></u> gas.		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator:       JLH             JH      

Date:       4-6-24       Time:       0915      

Model #       YVA 1000      

Serial #       #12 103624674      

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<input checked="" type="radio"/> Pass / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.3</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<input checked="" type="radio"/> Pass / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<input checked="" type="radio"/> Pass / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<input checked="" type="radio"/> Pass / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-6-24</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<input checked="" type="radio"/> Pass / Fail	Time required to attain 90% of Cal Gas ppm		
		1.	<u>6</u>	
		2.	<u>6</u>	
		3.	<u>6</u>	
		Average	<u>6.0</u>	
		Equal to or less than 30 seconds?	<input checked="" type="radio"/> Y	N
		Instrument calibrated to	<u>644</u>	gas.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**SURFACE EMISSION MONITORING INSTRUMENT  
 CALIBRATION LOG**

Site: \_\_\_\_\_

Purpose: \_\_\_\_\_

Operator: MM

Date: 4-6-24 Time: 1015

Model # TC1 1000

Serial # #16 1102746716

INSTRUMENT INTEGRITY CHECKLIST		INSTRUMENT CALIBRATION		
Battery test	<u>Pass</u> / Fail	CALIBRATION CHECK		
Reading following ignition	<u>2.1</u> ppm	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
Leak test	<u>Pass</u> / Fail / NA	<u>500</u>	<u>500</u>	<u>100%</u>
Clean system check (check valve chatter)	<u>Pass</u> / Fail / NA	RESPONSE TIME		
H <sub>2</sub> supply pressure gauge (acceptable range 9.5 - 12)	<u>Pass</u> / Fail / NA	Calibration Gas, ppm	<u>500</u>	
Date of last factory calibration	<u>4-6-24</u>	90% of Calibration Gas, ppm	<u>450</u>	
Factory calibration record w/instrument within 3 months	<u>Pass</u> / Fail	Time required to attain 90% of Cal Gas ppm		
		1. <u>5</u>		
		2. <u>6</u>		
		3. <u>6</u>		
		Average <u>5.6</u>		
		Equal to or less than 30 seconds?	<input checked="" type="checkbox"/>	N
		Instrument calibrated to <u>clay</u> gas.		

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# Intermountain Specialty Gases

520 N. Kings Road  
Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



## CERTIFICATE OF ANALYSIS

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy (+/-)</u>
Oxygen	20.9 %	2%
Nitrogen	Balance UHP	

**Lot #** 20-7421  
Mfg. Date: 5/20/2020  
Expiration Date:  
Transfill Date: see cylinder  
Parent Cylinder ID Number: NY02268

### Method of Preparation:

Gravimetric/Pressure Transfilled

### Method of Analysis:

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

Analysis By: Tony Janquart  
Title: Quality Assurance Manager  
Certificate Date: 5/20/2020

103 L  
103-01-100  
OXYGEN

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

103 L

P/N: 01-100

Lot#: 20-7421

Exp Date  
7/10/2024

Contents: 3.6M<sup>3</sup> @ 70°F and 1,000 PSIG

DO NOT REUSE  
DISPOSE OF IN ACCORDANCE WITH  
LOCAL AND FEDERAL REGULATIONS  
FOR HAZARDOUS WASTE  
DO NOT REUSE



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





# INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

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## CERTIFICATE OF ANALYSIS

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<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
--------------	----------------

Mfg. Date: 10/16/2017  
Parent Cylinder ID Number: 17161

**Method of Preparation:**  
Gravimetric/Pressure Transfilled

**Method of Analysis:**

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

Analysis By: Tony Janquart  
Quality Assurance Manager  
800-552-5003  
Certificate Date: 10/16/2017



ProSupply Service INC.

Concentration (Mole%) Accuracy  
+/- 5%  
(CH<sub>4</sub>) - 25 ppm  
- Balance

3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
7/10/2024

Lot#: 17-6074

P/N:23-0025

**103 L**

Kaiser Avenue, Irvine, CA 92614  
(949) 253-0053 or (800) 201-8150 Fax (949) 757-0363

Methane



CONTAINS GAS UNDER PRESSURE  
Read label before use. Keep label at hand. Use appropriate PPE.  
Do not handle until all safety instructions are read.  
Use a back flow preventer when connecting to equipment.  
Use slowly. Close valve after use. Store in a cool, dry place away from sunlight when ambient temperature is above 100°F.  
Dispose of content and container in accordance with applicable regulations.  
DO NOT REMOVE THIS LABEL  
Federal law forbids transportation of hazardous materials without proper labeling (49 CFR 171.15-171.16, 173.15-173.16, 173.24, 173.25, 173.26, 173.27, 173.28, 173.29, 173.30, 173.31, 173.32, 173.33, 173.34, 173.35, 173.36, 173.37, 173.38, 173.39, 173.40, 173.41, 173.42, 173.43, 173.44, 173.45, 173.46, 173.47, 173.48, 173.49, 173.50, 173.51, 173.52, 173.53, 173.54, 173.55, 173.56, 173.57, 173.58, 173.59, 173.60, 173.61, 173.62, 173.63, 173.64, 173.65, 173.66, 173.67, 173.68, 173.69, 173.70, 173.71, 173.72, 173.73, 173.74, 173.75, 173.76, 173.77, 173.78, 173.79, 173.80, 173.81, 173.82, 173.83, 173.84, 173.85, 173.86, 173.87, 173.88, 173.89, 173.90, 173.91, 173.92, 173.93, 173.94, 173.95, 173.96, 173.97, 173.98, 173.99, 174.00).

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

**103 L**

Lot #  
17-6074

COA



2 of 2



# INTERMOUNTAIN SPECIALTY GASES

520 N. Kings Road • Nampa • Idaho • 83687

800-552-5003 • www.isgases.com

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## CERTIFICATE OF ANALYSIS

---

<u>Composition</u>	<u>Certification</u>	<u>Analytical Accuracy</u>
Methane	25 ppm	± 5%
Air	Balance	

<b>Lot #</b>	<b>17-6074</b>
--------------	----------------

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

MicroSupply Service INC.



Concentration (Mole%) Accuracy  
(CH<sub>4</sub>) - 25 ppm +/- 5%  
- Balance

Methane



CONTAINS GAS  
Read label before use  
label at time of use  
Do not handle with  
protective gloves  
Use a back flow preventer  
slowly Close valve in  
sunlight when not in  
use  
Dispose of contents  
DO NOT REMOVE  
Federal law prohibits  
5124). Federal law

Contents: 3.6ft<sup>3</sup> @ 70°F and 1,000 PSIG

Exp Date  
4/27/2023

Lot#: 17-6074

P/N:23-0025

103 L

1 Kaiser Avenue, Irvine, CA 92614  
949-4353 or (800) 201-8150 Fax (949) 757-0363

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

103 L

Lot #  
17-6074



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

# Intermountain Specialty Gases

520 N. Kings Road  
Nampa, ID 83687 (USA)  
Phone (800) 552-5003, Fax (208) 466-9143  
[www.isgases.com](http://www.isgases.com)



"Your calibration gas manufacturer since 1992"

## CERTIFICATE OF ANALYSIS

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

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

**Method of Preparation:**  
Gravimetric/Pressure Transfilled

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

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

Supply Service INC.

Concentration (Mole%) Accuracy  
± 2%  
± 500 ppm  
Balance

70°F and 1,000 PSIG

Exp Date  
7/10/2024

Lot#: 20-7497

P/N: 23-0500

**103 L**

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

Methane (0.001%)



WARNING

CONTAINS GAS UNDER PRESSURE

Read label before use. Keep out of reach of children. Label at hand. Use equipment with proper safety features.

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

Use a back flow preventive device and open slowly. Close valve after each use. Store in a cool, dry place, away from sunlight when ambient temperature is above 50°F.

Dispose of content and/or container in accordance with applicable regulations.

DO NOT REMOVE THIS PRODUCT LABEL

Federal law forbids transportation in motor vehicles (49 CFR 173.34). Federal law prohibits selling, offering for sale, or transporting in interstate commerce.

103-23-0500  
Methane 500 ppm/  
± 2.0% Nitrogen

**103 L**

Lot #  
20-7497



COA



4 of 4



A DIVISION OF NORCO, INC.

Calibration Gases & Equipment

CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd
Sterling 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

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

Customer Part# N/A

Table with 3 columns: Component, Reported Concentration, Requested Concentration. Rows for Methane and Air.

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: [Signature] Date Signed: 6/10/2022
David Reed
Lab Technician



800.962.7837  
www.premiersafety.com

33596 Sterling Pond  
Sterling Heights, MI

Components	Concentration (Mole %)
Methane	500 ppm
Air	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**





## Calibration Gases & Equipment

### CERTIFICATE OF ANALYSIS

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

Cust Number WH012  
Order Number 71846398  
PO Number 04A35563

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

  
\_\_\_\_\_  
Jeff Korn  
Lab Technician

Date Signed:

4/7/2023





800.962.7837  
www.premiersafety.com

33596 Sterling Road  
Sterling Heights, MI

**Components** **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**



A DIVISION OF NORCO, INC.

### Calibration Gases & Equipment

## CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd  
Sterling Hights MI 48312

Cust Number 07152  
Order Number 69679439  
PO Number 04906817

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

David Reed  
Lab Technician

Date Signed:

6/13/2022



800.962.7837  
www.premiersafety.com

33596 Sterling  
Sterling Heights

**Components**

**Concentration (Mole %)**

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

Zero Grade  
20.9 %  
< 1.0 ppm  
Balance

Lot: 2-154-85

Accuracy: Certified

Part: J1002

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

MFG Date: 6/13/2022

Exp. Date: 08/2025

**CALIBRATION GAS**





## Calibration Gases & Equipment

### CERTIFICATE OF ANALYSIS

Premier Safety & Service

33596 Sterling Pond Blvd  
Sterling Hights MI 48312

Cust Number 07152  
Order Number 73732858  
PO Number 04B70733

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

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

Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

Approved:

  
\_\_\_\_\_  
Aaron Schwenken  
Lab Manager

Date Signed:

12/7/2023

**PREMIER SAFETY**

800.962.7837  
www.premiersafety.com

33596 Sterling  
Sterling Hg

**Components**

Methane  
Air

**Concentration (Methane)**

500 ppm  
Balance

Lot#: 3-340-61

Accuracy: +/- 2 %

Part: J1971500PA

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

MFG Date: 12/7/00

Exp. Date: 12/2007

**CALIBRATION GAS**



## Calibration Gases & Equipment

### CERTIFICATE OF ANALYSIS

Premier Safety & Service  
33596 Sterling Pond Blvd  
Sterling Hights MI 48312

Cust Number 07152  
Order Number 73732858  
PO Number 04B70733

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

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


Customer Part# N/A

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

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

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

NIST Traceable Numbers are available upon request.

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



800.962.7837  
www.premiersafety.com

33596 Sterling Parkway  
Sterling Heights, MI

**Components**

**Concentration (Mole %)**

Methane  
Air

25 ppm  
Balance

Lot#: 3-340-62

Accuracy: +/- 5 %

Part: J197125PA

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

MFG Date: 12/7/2023

Exp. Date: 12/2027

**CALIBRATION GAS**



**EQUIPCO** SALES & SERVICE

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

**METHANE 500ppm  
AIR BALANCE**

Analytical Accuracy +/- 2%

103L @ 70F & 1000 PSIG  
Lot# 260447  
P/N MET-500-103L

EXP: JAN/2025

TVA

**EQUIPCO** SALES & SERVICE

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

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

Analytical Accuracy +/- 2%

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

EXP: JAN/2025

TVA  
zero



# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon

Date: 4/24/24

Time:        AM 1210 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 = 504
3. Adjust meter to read 500 ppm.

## Background Determination Procedure

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

Calculate Background Value:

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

Performed by: Robb

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon Date: 5/17/24

Time: 5:00 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 ppm

3. Adjust meter to read 500 ppm.

## Background Determination Procedure

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

Calculate Background Value:

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

Performed by: T.Robles

# RESPONSE TIME TEST RECORD

Date: 4/1/24

Expiration Date (3 months): 7/1/24

Time: 5:50 AM        PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm  
90% of the Stabilized Reading: 480 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 499 ppm  
90% of the Stabilized Reading: 495 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: 485 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

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

Performed by: T.Robles

# CALIBRATION PRECISION TEST RECORD

Date: 4/1/2024

Expiration Date (3 months): 7/1/2024

Time: 5:50 AM        PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

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: 502 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 501 ppm (f)

Calculate Precision:

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

1.0 % (must be < than 10%)

Performed by: T. Robles

## **APPENDIX G**

### **COMPONENT LEAK CHECK REPORTS**





## **APPENDIX H**

### **MONTHLY SOLID WASTE PLACEMENT TOTALS**



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

**Solid Waste Placement Totals**

January 1, 2024 through June 30, 2024

July	Disposed	August	Disposed	September	Disposed	October	Disposed	November	Disposed	December	Disposed
Total in Tons	18,222		16,760		13,764		16,803		18,139		16,899

Total Disposed January 1, 2024 through June 30, 2024 **100,588**

# **APPENDIX I**

## **WELLFIELD MONITORING LOGS**



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
 Wellfield Monitoring Report - January 5, 8, 10, 23, and 25, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0121	1/10/2024 9:05	56.7	43.3	0.0	0.0	98.2	98.3	-32.6	-32.5
KCYN0122	1/10/2024 9:14	57.1	42.9	0.0	0.0	99.4	99.4	-29.4	-29.4
KCYN0123	1/10/2024 7:48	58.0	41.7	0.0	0.3	120.3	125.3	-17.9	-19.1
KCYN0124	1/10/2024 7:36	46.1	38.2	0.0	15.7	111.4	111.4	-4.9	-4.8
KCYN0125	1/8/2024 13:52	57.7	40.6	0.0	1.7	125.4	127.7	-19.1	-19.5
KCYN0126	1/10/2024 7:23	51.7	39.9	0.0	8.4	127.3	127.3	-17.5	-17.4
KCYN0127	1/10/2024 13:13	43.2	37.0	0.0	19.8	126.3	126.6	-14.3	-14.4
KCYN0128	1/10/2024 8:26	51.9	42.0	0.1	6.0	121.9	121.6	-24.9	-24.9
KCYN0129	1/8/2024 9:18	58.4	41.6	0.0	0.0	95.5	98.3	-34.4	-35.0
KCYN0130	1/10/2024 13:39	50.4	36.6	0.0	13.0	109.9	110.0	-3.2	-3.1
KCYN0131	1/10/2024 14:01	56.9	43.1	0.0	0.0	109.6	109.8	-39.5	-38.3
KCYN0133	1/8/2024 8:33	56.1	42.0	0.4	1.5	101.8	109.3	-25.8	-25.8
KCYN0134	1/8/2024 8:40	57.0	43.0	0.0	0.0	87.3	87.7	-24.0	-24.0
KCYN0135	1/8/2024 8:44	55.7	42.3	0.0	2.0	126.8	126.8	-27.0	-26.9
KCYN0162	1/10/2024 8:55	51.9	38.3	2.0	7.8	42.6	42.6	-35.9	-35.9
KCYN0163	1/23/2024 9:02	64.2	35.7	0.1	0.0	66.0	67.2	-1.1	-4.5
KCYN0164	1/10/2024 8:51	57.7	42.3	0.0	0.0	52.0	52.1	-35.8	-35.6
KCYN0165	1/10/2024 8:47	56.4	41.3	0.0	2.3	118.7	117.6	-16.8	-18.7
KCYN0166	1/10/2024 13:30	53.0	40.4	0.0	6.6	128.2	128.6	-3.3	-3.9
KCYN0167	1/10/2024 13:27	58.5	41.5	0.0	0.0	117.4	117.4	-33.5	-33.4
KCYN0168	1/10/2024 13:23	52.8	40.8	0.0	6.4	121.6	122.2	-14.8	-15.3
KCYN0169	1/3/2024 7:31	57.0	43.0	0.0	0.0	107.9	108.0	-1.7	-1.7
KCYN0169	1/25/2024 8:33	55.9	42.0	0.0	2.1	108.7	108.7	-2.1	-2.3
KCYN0170	1/3/2024 7:35	54.7	43.4	0.0	1.9	104.5	104.4	-3.6	-3.7
KCYN0170	1/25/2024 8:36	54.7	42.7	0.0	2.6	104.5	104.5	-4.4	-4.9
KCYN0171	1/3/2024 7:41	55.6	44.3	0.0	0.1	111.1	111.0	-8.2	-8.7
KCYN0171	1/25/2024 8:44	55.9	44.1	0.0	0.0	111.5	111.5	-10.1	-12.5
KCYN0172	1/3/2024 7:45	55.4	44.4	0.0	0.2	115.4	115.5	-5.1	-5.3
KCYN0172	1/25/2024 8:49	54.3	43.9	0.0	1.8	115.6	115.7	-7.1	-7.0
KCYNLR04	1/5/2024 8:00	57.9	37.9	0.4	3.8	97.5	97.5	-16.3	-16.6
KCYNLR08	1/5/2024 7:50	59.3	38.6	0.8	1.3	66.4	69.9	-27.4	-31.3
KCYNLR11	1/10/2024 13:52	48.1	34.4	3.4	14.1	57.6	57.7	-0.9	-0.6
KCYNLR12	1/3/2024 7:22	52.0	40.8	0.2	7.0	84.9	84.8	-5.2	-5.5
KCYNLR12	1/25/2024 8:25	50.6	39.9	0.2	9.3	84.2	84.4	-7.1	-8.0

\*The following wells are approved to operate at a temperature HOV 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 temperature HOV of 156°F.

As of January 31, 2024, 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 - February 6, 9, 12, and 13, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	2/6/2024 9:52	53.0	37.6	0.0	9.4	71.2	73.6	-26.7	-37.1
KCLC0109	2/6/2024 10:01	57.6	42.4	0.0	0.0	85.9	85.8	-34.6	-34.6
KCLC0110	2/6/2024 10:04	57.2	42.8	0.0	0.0	102.4	102.5	-38.5	-39.0
KCLC0111	2/6/2024 10:16	55.5	42.3	0.6	1.6	52.3	52.5	-37.5	-37.6
KCLC0112	2/6/2024 10:12	57.1	42.9	0.0	0.0	71.0	72.0	-35.3	-35.3
KCLC0139	2/12/2024 9:39	56.2	43.8	0.0	0.0	114.9	114.7	-19.4	-19.4
KCLC0140	2/12/2024 9:35	56.8	43.2	0.0	0.0	94.1	104.9	-3.0	-20.5
KCLC0141	2/12/2024 9:16	48.7	37.6	0.0	13.7	84.2	84.2	-0.7	-0.7
KCLC0142	2/12/2024 9:08	42.2	34.5	0.0	23.3	79.3	79.3	0.0	0.0
KCLC0143	2/12/2024 10:46	45.4	37.4	0.0	17.2	101.7	101.1	-0.7	-0.5
KCLC0145	2/12/2024 8:01	39.9	30.0	3.2	26.9	42.8	42.5	-27.6	-26.9
KCLC0147	2/12/2024 7:47	58.2	41.8	0.0	0.0	42.8	42.8	-30.1	-30.1
KCLC0149	2/12/2024 8:08	55.2	41.8	0.0	3.0	83.3	83.4	-5.5	-8.0
KCLC0151	2/12/2024 7:44	57.2	42.8	0.0	0.0	117.7	117.7	-24.0	-24.0
KCLC0152	2/12/2024 7:40	51.4	40.2	0.0	8.4	110.6	110.9	-12.1	-12.8
KCLC0153	2/12/2024 8:12	47.6	39.0	0.0	13.4	98.3	96.1	-7.9	-1.8
KCLC0154	2/12/2024 8:05	39.8	35.3	0.0	24.9	100.4	94.1	-3.7	-1.4
KCLC0155	2/12/2024 7:56	55.0	42.3	0.0	2.7	110.9	111.0	-11.7	-14.1
KCLC0156	2/12/2024 7:53	57.7	42.3	0.0	0.0	95.4	95.4	-24.0	-25.1
KCLC0157	2/12/2024 8:22	44.4	35.9	3.1	16.6	43.7	43.8	-27.4	-25.4
KCLC0158	2/12/2024 10:40	51.5	40.8	0.0	7.7	104.2	106.4	-5.9	-9.2
KCLC0159	2/6/2024 12:07	50.4	39.0	0.0	10.6	108.0	108.2	-14.3	-17.2
KCLC0160	2/6/2024 10:52	45.3	36.6	3.9	14.2	53.4	53.8	-35.7	-35.8
KCLC0161	2/6/2024 11:00	47.4	39.5	0.0	13.1	113.8	113.3	-27.7	-23.9
KCYN0014	2/6/2024 9:48	54.4	33.8	0.0	11.8	96.5	98.3	-2.9	-3.9
KCYN0027	2/9/2024 9:02	53.9	37.6	1.8	6.7	61.3	61.3	-45.8	-45.9
KCYN0048	2/6/2024 10:31	49.4	40.6	0.0	10.0	117.4	116.6	-2.5	-2.5
KCYN0051	2/12/2024 10:52	56.7	42.2	0.0	1.1	88.6	88.6	-27.2	-27.1
KCYN0054	2/12/2024 9:23	48.9	34.0	3.8	13.3	51.9	52.0	-2.0	-8.6
KCYN0056	2/12/2024 9:50	56.4	43.5	0.0	0.1	122.4	121.8	-22.2	-22.2
KCYN0057	2/12/2024 11:00	55.9	44.1	0.0	0.0	91.8	92.3	-23.9	-22.9
KCYN0058	2/12/2024 11:05	50.9	40.2	0.0	8.9	125.8	128.5	-6.9	-7.5
KCYN0062	2/9/2024 7:34	53.7	40.4	0.1	5.8	118.4	118.3	-29.5	-30.2
KCYN0063	2/9/2024 7:27	42.7	36.6	0.0	20.7	113.7	113.8	-2.6	-2.8
KCYN0065	2/12/2024 9:31	56.8	43.2	0.0	0.0	70.6	71.0	-21.9	-22.0
KCYN0066	2/9/2024 7:08	57.7	42.0	0.3	0.0	115.8	116.5	-45.4	-45.4
KCYN0070	2/9/2024 8:44	51.3	39.3	0.0	9.4	111.2	111.1	-15.3	-15.9
KCYN0071	2/9/2024 7:58	53.7	41.7	0.1	4.5	128.7	128.7	-44.7	-44.8
KCYN0072	2/9/2024 7:37	58.1	41.9	0.0	0.0	106.3	106.8	-3.8	-4.4
KCYN0074	2/6/2024 11:48	56.7	43.3	0.0	0.0	129.1	129.1	-45.2	-42.6
KCYN0075	2/12/2024 9:46	56.0	44.0	0.0	0.0	117.5	118.0	-31.2	-31.2
KCYN0076	2/6/2024 11:14	56.3	43.7	0.0	0.0	128.8	124.8	-28.9	-28.8
KCYN0078	2/6/2024 11:55	56.7	43.3	0.0	0.0	128.4	128.2	-24.7	-25.3
KCYN0082	2/12/2024 10:37	48.1	38.9	0.0	13.0	116.0	114.2	-6.5	-3.5
KCYN0084	2/12/2024 10:49	51.5	39.8	0.0	8.7	119.4	120.3	-1.1	-1.6
KCYN0086	2/12/2024 8:30	56.2	43.8	0.0	0.0	129.9	130.4	-24.2	-24.2
KCYN0087	2/12/2024 8:47	50.7	41.8	0.0	7.5	130.0	130.0	-12.0	-11.9
KCYN0088	2/9/2024 9:17	46.2	31.9	2.6	19.3	107.6	97.3	-24.9	-16.9
KCYN0089	2/6/2024 11:18	56.9	43.1	0.0	0.0	129.8	129.4	-7.1	-7.7
KCYN0090	2/9/2024 8:48	55.7	41.3	0.0	3.0	102.0	102.4	-46.2	-46.7
KCYN0091	2/6/2024 11:27	56.2	43.8	0.0	0.0	127.7	128.8	-28.0	-28.0
KCYN0092	2/6/2024 11:51	57.4	42.5	0.0	0.1	123.9	123.9	-35.8	-36.4
KCYN0093	2/6/2024 11:34	56.6	43.1	0.0	0.3	113.5	114.1	-26.1	-29.0
KCYN0094									
KCYN0095									
KCYN0097	2/9/2024 8:52	57.5	42.5	0.0	0.0	119.2	119.2	-38.3	-38.3
KCYN0098									
KCYN0099	2/9/2024 8:01	53.1	41.7	0.0	5.2	127.8	127.9	-24.7	-25.3
KCYN0101	2/9/2024 9:08	52.8	23.1	3.9	20.2	54.7	54.2	-43.8	-44.9
KCYN0102	2/9/2024 7:44	37.3	33.7	0.0	29.0	96.1	93.6	-3.0	-2.3
KCYN0103	2/9/2024 7:53	39.6	33.2	0.4	26.8	116.6	115.6	-10.6	-8.9
KCYN0105	2/6/2024 10:09	57.4	42.5	0.0	0.1	60.4	60.2	-38.6	-37.9
KCYN0118	2/6/2024 10:56	56.1	42.7	0.1	1.1	109.9	109.7	-35.5	-33.9
KCYN0119	2/6/2024 11:08	55.7	43.0	0.0	1.3	129.1	129.5	-6.8	-9.2
KCYN0121	2/6/2024 10:45	56.3	43.7	0.0	0.0	84.1	84.0	-32.7	-32.2
KCYN0122	2/6/2024 11:03	56.7	42.9	0.0	0.4	102.5	102.9	-30.4	-30.3
KCYN0123	2/13/2024 12:37	57.3	41.9	0.0	0.8	88.6	88.6	-29.0	-29.0
KCYN0124	2/13/2024 12:32	55.9	40.0	0.0	4.1	110.2	110.1	-1.3	-1.3
KCYN0125	2/12/2024 9:28	56.2	43.3	0.0	0.5	129.8	129.9	-16.5	-16.9
KCYN0126	2/12/2024 9:41	54.2	42.3	0.0	3.5	127.2	127.2	-14.5	-14.4
KCYN0127	2/12/2024 10:57	49.7	40.3	0.0	10.0	127.5	127.3	-16.6	-18.2

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

Wellfield Monitoring Report - February 6, 9, 12, and 13, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	2/12/2024 8:27	54.1	43.3	0.0	2.6	129.2	127.1	-29.3	-29.3
KCYN0129	2/12/2024 7:36	58.9	41.0	0.1	0.0	81.1	81.2	-30.0	-29.5
KCYN0130	2/6/2024 10:25	53.0	37.1	0.0	9.9	109.9	110.5	-4.5	-4.7
KCYN0131	2/6/2024 10:19	56.8	43.1	0.1	0.0	74.4	74.5	-39.3	-39.0
KCYN0133	2/6/2024 11:59	58.1	41.9	0.0	0.0	78.4	78.3	-25.6	-25.1
KCYN0134	2/12/2024 8:55	57.4	42.6	0.0	0.0	61.9	62.3	-23.0	-22.5
KCYN0135	2/12/2024 8:59	56.7	43.3	0.0	0.0	125.8	125.7	-21.8	-21.7
KCYN0162	2/6/2024 12:19	46.3	34.6	3.4	15.7	58.3	58.0	-35.3	-34.3
KCYN0163	2/6/2024 12:27	46.2	36.9	0.3	16.6	78.4	74.3	-19.0	-12.3
KCYN0164	2/6/2024 12:15	56.6	41.4	0.3	1.7	56.8	58.0	-35.0	-35.0
KCYN0165	2/6/2024 12:11	53.1	40.1	0.0	6.8	118.4	118.6	-23.2	-23.6
KCYN0166	2/6/2024 10:34	49.9	40.4	0.0	9.7	128.3	128.3	-5.6	-5.6
KCYN0167	2/6/2024 10:38	57.1	42.1	0.0	0.8	116.8	116.8	-34.5	-34.5
KCYN0168	2/6/2024 10:41	54.1	41.3	0.0	4.6	120.7	121.4	-22.9	-23.7
KCYN0169	2/6/2024 9:15	52.3	41.6	0.0	6.1	109.1	109.1	-3.0	-3.2
KCYN0170	2/6/2024 9:20	53.7	43.0	0.0	3.3	104.3	104.3	-5.4	-5.4
KCYN0171	2/6/2024 9:23	55.2	44.8	0.0	0.0	112.2	112.1	-12.2	-12.2
KCYN0172	2/6/2024 9:29	53.7	43.0	0.0	3.3	115.5	115.5	-7.5	-7.4
KCYNLR04	2/12/2024 9:02	56.7	39.7	0.3	3.3	94.4	94.4	-19.8	-20.5
KCYNLR08	2/9/2024 7:16	54.6	37.1	1.8	6.5	68.4	69.3	-17.3	-17.9
KCYNLR11	2/6/2024 9:55	59.5	40.5	0.0	0.0	54.9	55.3	-0.8	-1.4
KCYNLR12	2/6/2024 9:08	49.6	39.3	0.4	10.7	84.1	84.1	-10.3	-11.3

\*The following wells are approved to operate at a temperature HOV 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 temperature HOV of 156°F .

As of February 29, 2024, 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 - March 5, 6, 11, 12, and 27, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	3/6/2024 7:28	47.70	38.00	0.00	14.30	82.80	78.30	-39.47	-23.11
KCLC0109	3/6/2024 7:20	57.70	42.30	0.00	0.00	85.60	84.60	-36.90	-37.36
KCLC0110	3/6/2024 7:15	59.90	40.00	0.10	0.00	96.70	96.10	-40.71	-40.90
KCLC0111	3/6/2024 7:53	54.50	41.20	1.00	3.30	50.60	50.60	-40.85	-40.97
KCLC0112	3/6/2024 7:56	56.80	43.20	0.00	0.00	82.00	82.70	-39.40	-39.35
KCLC0139	3/12/2024 12:11	56.90	43.10	0.00	0.00	117.40	117.40	-24.36	-24.35
KCLC0140	3/12/2024 11:56	56.70	43.30	0.00	0.00	66.10	65.90	-27.93	-28.06
KCLC0141	3/12/2024 9:05	57.70	40.30	0.00	2.00	81.50	89.90	-0.76	-3.38
KCLC0142	3/12/2024 9:00	58.70	41.30	0.00	0.00	87.40	84.20	-0.30	-0.22
KCLC0143	3/12/2024 9:36	58.40	41.60	0.00	0.00	94.50	98.40	-0.03	-0.43
KCLC0145	3/6/2024 9:32	49.60	36.60	2.80	11.00	57.20	57.50	-31.53	-33.35
KCLC0147	3/6/2024 9:40	58.80	41.20	0.00	0.00	57.90	58.00	-33.44	-33.44
KCLC0149	3/6/2024 9:28	56.50	43.50	0.00	0.00	75.50	76.40	-1.54	-5.55
KCLC0151	3/6/2024 9:07	57.60	42.40	0.00	0.00	117.80	117.80	-30.40	-30.32
KCLC0152	3/6/2024 8:59	48.40	39.40	0.00	12.20	112.40	112.10	-19.09	-18.22
KCLC0153	3/6/2024 9:24	56.80	43.20	0.00	0.00	94.10	95.90	-1.00	-2.10
KCLC0154	3/6/2024 9:19	57.90	42.10	0.00	0.00	80.90	92.90	-0.37	-1.52
KCLC0155	3/6/2024 9:15	57.80	42.20	0.00	0.00	112.30	112.60	-14.01	-16.95
KCLC0156	3/6/2024 9:11	57.20	42.80	0.00	0.00	97.30	97.50	-34.07	-34.10
KCLC0157	3/12/2024 12:52	44.40	35.00	3.90	16.70	60.80	60.90	-28.92	-27.52
KCLC0158	3/12/2024 9:28	55.90	40.40	0.00	3.70	109.70	110.50	-9.81	-14.01
KCLC0159	3/6/2024 9:46	44.70	36.10	0.00	19.20	109.60	108.80	-23.77	-14.03
KCLC0160	3/6/2024 8:05	46.10	34.00	3.30	16.60	51.60	51.60	-39.81	-39.41
KCLC0161	3/6/2024 8:14	49.00	39.50	0.00	11.50	114.50	114.60	-21.94	-21.92
KCYN0014	3/6/2024 7:37	45.50	32.90	0.00	21.60	99.80	91.00	-7.60	-4.32
KCYN0027	3/12/2024 8:34	57.90	42.10	0.00	0.00	48.00	48.50	-46.92	-43.76
KCYN0048	3/6/2024 8:38	47.60	39.50	0.00	12.90	70.40	61.50	-2.07	-1.98
KCYN0051	3/12/2024 9:43	56.80	43.20	0.00	0.00	86.20	86.30	-25.92	-26.83
KCYN0054	3/12/2024 9:16	51.40	38.90	0.50	9.20	50.90	51.40	-0.04	-0.07
KCYN0056	3/12/2024 12:30	56.60	43.40	0.00	0.00	117.10	120.70	-28.28	-28.43
KCYN0057	3/12/2024 12:19	54.60	42.80	0.00	2.60	73.50	74.70	-29.75	-29.71
KCYN0058	3/12/2024 12:16	46.10	39.60	0.00	14.30	129.40	127.90	-10.82	-8.53
KCYN0062	3/5/2024 15:30	57.20	42.80	0.00	0.00	97.50	107.10	-20.83	-47.11
KCYN0063	3/5/2024 15:25	57.50	42.50	0.00	0.00	105.10	107.80	-36.90	-46.53
KCYN0065	3/12/2024 12:01	56.80	42.00	0.50	0.70	73.10	73.10	-28.00	-27.71
KCYN0066	3/6/2024 7:01	59.00	40.90	0.00	0.10	125.60	125.70	-47.77	-47.69
KCYN0070	3/12/2024 7:37	57.30	39.60	0.10	3.00	110.60	110.70	-14.99	-15.01
KCYN0071	3/5/2024 15:53	57.80	42.20	0.00	0.00	128.00	128.00	-47.01	-48.47
KCYN0072	3/5/2024 15:34	48.90	39.10	0.00	12.00	110.10	109.10	-11.77	-9.16
KCYN0074	3/11/2024 8:25	57.60	42.40	0.00	0.00	127.80	128.40	-45.65	-44.78
KCYN0075	3/12/2024 11:47	56.70	43.20	0.10	0.00	114.30	114.90	-29.62	-29.66
KCYN0076	3/12/2024 8:06	57.30	42.70	0.00	0.00	127.50	127.00	-31.95	-31.95
KCYN0078	3/12/2024 8:45	56.80	43.20	0.00	0.00	129.80	129.30	-29.80	-29.81
KCYN0082	3/12/2024 9:24	56.30	43.70	0.00	0.00	110.50	111.40	-0.77	-0.72
KCYN0084	3/12/2024 9:40	53.00	40.00	0.00	7.00	121.00	121.60	-2.14	-2.81
KCYN0086	3/12/2024 13:04	55.30	41.70	0.00	3.00	130.30	130.20	-24.47	-24.31
KCYN0087	3/12/2024 13:11	53.00	40.90	0.00	6.10	129.40	129.60	-13.25	-16.99
KCYN0088	3/12/2024 7:50	60.40	39.60	0.00	0.00	97.60	99.40	-1.37	-3.69
KCYN0089	3/12/2024 8:17	57.20	42.80	0.00	0.00	129.40	129.80	-10.04	-13.93
KCYN0090	3/12/2024 7:43	59.00	40.80	0.20	0.00	98.90	99.60	-47.72	-48.31
KCYN0091	3/12/2024 8:12	57.50	42.50	0.00	0.00	126.20	126.30	-29.48	-31.51
KCYN0092	3/11/2024 8:28	58.20	41.80	0.00	0.00	124.00	124.00	-40.87	-40.88
KCYN0093	3/11/2024 8:22	59.20	40.80	0.00	0.00	108.20	108.10	-44.68	-47.04
KCYN0094	3/27/2024 10:04	59.40	40.50	0.00	0.10	111.10	111.20	-3.91	-3.90
KCYN0095						Offline for filling			
KCYN0097	3/12/2024 7:56	58.60	41.40	0.00	0.00	117.90	117.30	-38.42	-38.45
KCYN0098						Offline for filling			
KCYN0099	3/5/2024 15:19	51.50	39.40	0.00	9.10	128.10	128.20	-30.47	-32.54
KCYN0101	3/5/2024 15:46	64.10	23.80	2.30	9.80	53.10	52.90	-47.88	-48.72
KCYN0102	3/5/2024 15:39	58.80	39.60	0.00	1.60	90.00	93.80	-1.10	-1.79
KCYN0103	3/5/2024 15:50	61.50	37.70	0.00	0.80	103.90	106.70	-0.04	-0.33
KCYN0105	3/6/2024 7:49	57.50	42.50	0.00	0.00	64.30	64.80	-40.74	-41.75
KCYN0118	3/6/2024 8:11	57.30	42.60	0.00	0.10	110.70	110.20	-34.98	-36.77
KCYN0119	3/6/2024 8:52	44.20	37.10	0.30	18.40	129.30	125.50	-13.64	-6.13
KCYN0121	3/6/2024 8:00	56.70	43.30	0.00	0.00	92.20	92.60	-36.62	-36.68
KCYN0122	3/6/2024 8:23	57.40	42.60	0.00	0.00	105.30	105.70	-35.03	-35.03
KCYN0123	3/12/2024 12:26	55.70	42.50	0.00	1.80	128.50	128.60	-20.72	-20.72
KCYN0124	3/12/2024 9:31	57.60	42.40	0.00	0.00	109.50	110.10	-1.28	-1.89
KCYN0125	3/12/2024 12:04	57.30	42.70	0.00	0.00	129.80	129.60	-22.27	-22.26
KCYN0126	3/12/2024 12:07	56.90	41.90	0.00	1.20	127.10	127.10	-18.15	-18.13
KCYN0127	3/12/2024 12:22	49.50	40.30	0.00	10.20	127.30	127.30	-16.04	-16.02

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

Wellfield Monitoring Report - March 5, 6, 11, 12, and 27, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0128	3/12/2024 13:00	53.60	42.30	0.00	4.10	127.30	126.80	-28.84	-28.83
KCYN0129	3/6/2024 9:03	57.90	42.10	0.00	0.00	89.00	89.20	-37.00	-37.02
KCYN0130	3/6/2024 7:40	48.20	36.30	0.00	15.50	111.30	111.20	-6.21	-5.53
KCYN0131	3/6/2024 7:44	57.30	42.70	0.00	0.00	102.30	102.50	-41.14	-42.27
KCYN0133	3/12/2024 8:41	58.20	41.80	0.00	0.00	63.90	63.90	-30.42	-30.42
KCYN0134	3/12/2024 8:49	57.40	42.50	0.00	0.10	53.50	53.50	-29.86	-29.84
KCYN0135	3/12/2024 8:53	56.60	43.40	0.00	0.00	124.70	124.90	-27.28	-27.30
KCYN0162	3/6/2024 10:02	56.40	40.20	0.70	2.70	64.40	64.80	-38.22	-38.96
KCYN0163	3/6/2024 10:05	53.20	38.50	0.00	8.30	68.60	70.80	-5.92	-17.29
KCYN0164	3/6/2024 9:56	54.20	38.80	1.20	5.80	61.00	61.80	-39.65	-39.65
KCYN0165	3/6/2024 9:49	51.00	39.90	0.00	9.10	119.10	119.20	-28.46	-28.40
KCYN0166	3/6/2024 8:43	45.10	38.00	0.00	16.90	128.60	127.30	-5.91	-3.53
KCYN0167	3/6/2024 8:30	57.30	42.70	0.00	0.00	117.40	117.40	-36.36	-36.33
KCYN0168	3/6/2024 8:27	51.80	40.90	0.00	7.30	121.70	121.80	-30.30	-31.29
KCYN0169	3/5/2024 14:55	47.30	40.30	0.00	12.40	109.70	109.40	-3.55	-1.34
KCYN0169	3/22/2024 10:54	57.40	42.00	0.00	0.60	107.30	108.70	-0.05	-0.59
KCYN0170	3/5/2024 14:47	53.60	42.60	0.00	3.80	104.90	104.90	-5.82	-5.80
KCYN0170	3/22/2024 11:19	52.70	40.90	0.50	5.90	104.10	104.50	-1.08	-1.34
KCYN0171	3/5/2024 14:36	57.10	42.90	0.00	0.00	113.30	113.30	-12.87	-12.85
KCYN0171	3/22/2024 11:42	56.20	43.80	0.00	0.00	104.60	108.40	-1.98	-3.73
KCYN0172	3/5/2024 14:59	54.00	43.10	0.00	2.90	116.40	116.40	-7.67	-7.64
KCYN0172	3/22/2024 10:22	53.60	39.40	0.40	6.60	114.10	116.20	-1.47	-3.28
KCYNLR04	3/11/2024 7:44	60.00	36.70	0.60	2.70	96.10	96.10	-23.93	-24.07
KCYNLR08	3/5/2024 15:13	57.90	41.60	0.30	0.20	74.50	76.70	-39.23	-42.17
KCYNLR11	3/6/2024 7:24	59.30	40.70	0.00	0.00	52.90	52.80	-0.41	-1.41
KCYNLR12	3/5/2024 14:26	46.80	38.30	0.60	14.30	85.10	84.90	-14.17	-9.03

\*The following wells are approved to operate at a temperature HOV 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 temperature HOV of 156°F .

As of March 31, 2024, 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 - April 9, 10, 11, 12, 15, 16, and 24, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	4/12/2024 7:14	57.1	38.8	0.0	4.1	72.1	74.1	-20.2	-34.0
KCLC0109	4/12/2024 7:04	57.9	42.1	0.0	0.0	82.1	83.8	-38.9	-38.7
KCLC0110	4/12/2024 7:00	58.3	41.6	0.0	0.1	105.0	105.0	-41.8	-41.8
KCLC0111	4/12/2024 7:33	52.9	40.0	1.4	5.7	48.6	48.6	-41.2	-40.3
KCLC0112	4/12/2024 7:39	57.9	42.1	0.0	0.0	74.9	74.9	-38.6	-38.6
KCLC0139	4/15/2024 12:16	50.2	38.3	1.4	10.1	118.7	118.7	-24.2	-24.2
KCLC0140	4/15/2024 12:05	43.5	32.4	3.9	20.2	65.1	64.6	-27.0	-21.5
KCLC0141	4/12/2024 9:04	48.4	37.6	0.0	14.0	97.2	97.2	-4.1	-4.1
KCLC0142	4/12/2024 9:32	42.9	34.5	0.0	22.6	100.8	98.8	-0.7	-0.4
KCLC0142	4/24/2024 13:39	54.3	38.8	0.0	6.9	97.9	98.9	-0.1	-0.2
KCLC0143	4/15/2024 13:01	43.4	35.5	0.6	20.5	105.0	104.8	-1.3	-0.8
KCLC0145	4/15/2024 11:20	47.4	34.2	2.8	15.6	59.2	59.2	-42.0	-41.9
KCLC0147	4/15/2024 11:04	58.4	38.8	0.3	2.5	58.4	58.3	-38.4	-38.6
KCLC0149	4/15/2024 11:29	57.5	41.4	0.0	1.1	81.7	82.8	-1.5	-7.5
KCLC0151	4/15/2024 11:00	43.7	32.1	3.7	20.5	118.3	115.3	-28.3	-6.8
KCLC0151	4/24/2024 13:04	56.7	43.3	0.0	0.0	118.5	118.8	-0.4	-1.5
KCLC0152	4/15/2024 11:38	47.1	37.4	0.3	15.2	112.3	110.7	-17.4	-14.9
KCLC0153	4/15/2024 10:49	55.9	38.7	0.7	4.7	97.2	97.3	-1.9	-2.5
KCLC0154	4/15/2024 11:25	49.8	38.4	0.0	11.8	101.1	101.0	-2.8	-2.8
KCLC0155	4/15/2024 11:16	42.1	32.5	3.4	22.0	112.6	110.4	-18.2	-6.9
KCLC0156	4/15/2024 11:11	45.2	32.2	3.7	18.9	93.8	91.0	-34.2	-5.3
KCLC0157	4/16/2024 10:00	50.1	36.2	2.5	11.2	70.9	70.2	-25.1	-23.7
KCLC0158	4/12/2024 9:28	48.5	38.2	0.0	13.3	94.8	96.4	-13.6	-9.5
KCLC0159	4/12/2024 10:02	53.7	39.3	0.9	6.1	106.2	108.2	-5.0	-8.8
KCLC0160	4/12/2024 8:03	47.3	37.9	0.7	14.1	54.0	54.2	-39.2	-38.3
KCLC0161	4/12/2024 8:19	47.0	39.4	0.0	13.6	113.9	114.0	-20.8	-22.1
KCYN0014	4/12/2024 7:19	59.7	33.3	0.0	7.0	87.5	90.8	-1.5	-2.2
KCYN0027	4/10/2024 10:51	47.8	37.2	2.1	12.9	83.6	83.7	-45.1	-45.1
KCYN0048	4/12/2024 12:16	48.3	39.4	0.0	12.3	121.8	121.1	-2.0	-1.3
KCYN0051	4/15/2024 12:57	56.9	41.1	0.0	2.0	86.7	86.7	-22.2	-22.0
KCYN0054	4/12/2024 9:16	17.6	16.7	11.2	54.5	77.5	77.6	-8.2	-7.7
KCYN0054	4/12/2024 9:20	16.9	15.8	12.2	55.1	79.6	80.0	-4.3	-4.1
KCYN0054	4/22/2024 7:02	14.9	13.3	13.2	58.6	75.3	75.2	-4.3	-4.3
KCYN0056	4/15/2024 12:44	50.3	37.8	1.7	10.2	119.9	119.7	-26.6	-26.5
KCYN0057	4/16/2024 9:42	48.3	37.9	2.1	11.7	71.5	65.7	-27.9	-12.5
KCYN0058	4/15/2024 12:31	48.9	38.3	0.0	12.8	72.9	66.1	-5.4	-5.4
KCYN0062	4/10/2024 8:17	54.9	42.4	0.0	2.7	104.9	105.2	-47.2	-47.5
KCYN0063	4/10/2024 8:24	16.0	16.1	9.9	58.0	70.1	69.4	-49.9	-50.3
KCYN0063	4/10/2024 8:28	15.9	16.0	9.7	58.4	68.9	69.0	-22.4	-50.0
KCYN0063	4/16/2024 12:34	19.2	15.7	12.0	53.1	71.8	71.5	-49.9	-49.9
KCYN0065	4/15/2024 11:59	54.7	39.7	0.3	5.3	69.0	68.9	-26.9	-26.9
KCYN0066	4/12/2024 6:46	60.1	39.5	0.4	0.0	125.5	125.6	-47.8	-47.8
KCYN0070	4/10/2024 8:55	50.3	39.7	0.0	10.0	111.1	111.6	-16.5	-13.6
KCYN0071	4/10/2024 9:09	52.9	40.5	0.0	6.6	127.1	127.2	-44.7	-45.3
KCYN0072	4/10/2024 8:32	55.7	39.0	0.2	5.1	108.6	111.5	-7.1	-10.2
KCYN0074	4/10/2024 10:10	54.9	42.3	0.0	2.8	127.4	126.8	-46.1	-46.2
KCYN0075	4/15/2024 12:25	56.0	41.5	0.0	2.5	118.0	117.9	-26.0	-25.8
KCYN0076	4/12/2024 8:40	54.8	42.5	0.6	2.1	127.2	127.1	-28.3	-28.4
KCYN0078	4/16/2024 9:19	58.6	41.4	0.0	0.0	107.4	107.1	-28.7	-28.7
KCYN0082	4/12/2024 9:24	60.6	38.8	0.5	0.1	114.4	114.9	-3.4	-4.5
KCYN0082	4/24/2024 13:33	56.7	40.8	0.0	2.5	113.0	113.1	-4.5	-4.5
KCYN0084	4/15/2024 13:07	49.8	37.4	0.0	12.8	119.7	115.3	-3.8	-2.4
KCYN0086	4/16/2024 10:11	54.6	41.8	0.0	3.6	126.8	127.0	-22.1	-22.1
KCYN0087	4/15/2024 11:50	49.2	39.7	0.0	11.1	128.9	125.6	-18.4	-18.9
KCYN0088	4/10/2024 9:04	53.6	39.1	0.0	7.3	108.7	108.9	-16.2	-17.5
KCYN0089	4/12/2024 9:45	56.0	40.7	0.0	3.3	128.5	128.4	-14.2	-14.3
KCYN0090	4/10/2024 8:57	55.5	40.8	0.0	3.7	101.0	102.9	-46.8	-46.9
KCYN0091	4/10/2024 10:01	55.4	41.8	0.0	2.8	129.0	127.8	-33.8	-34.8
KCYN0092	4/10/2024 10:18	55.7	41.6	0.0	2.7	122.4	124.6	-40.5	-41.8
KCYN0093	4/10/2024 10:27	55.5	41.8	0.0	2.7	111.6	111.6	-45.8	-45.7
KCYN0094	4/25/2024 9:36	58.8	41.1	0.1	0.0	126.2	126.1	-45.3	-45.3
KCYN0095									
KCYN0097	4/10/2024 9:35	55.7	41.1	0.0	3.2	119.3	119.3	-38.5	-39.2
KCYN0098									
KCYN0099	4/10/2024 8:42	47.5	39.9	0.0	12.6	128.1	128.1	-33.3	-29.9
KCYN0101	4/10/2024 9:27	48.3	27.8	3.6	20.3	68.9	68.8	-45.9	-40.6
KCYN0102	4/10/2024 9:21	48.2	38.8	0.0	13.0	99.6	101.1	-2.5	-2.4
KCYN0103	4/10/2024 9:15	51.5	40.5	0.0	8.0	115.3	115.9	-4.6	-5.2
KCYN0105	4/12/2024 6:56	58.4	40.2	0.3	1.1	65.0	65.3	-41.1	-41.7
KCYN0118	4/12/2024 8:14	55.8	43.0	0.0	1.2	114.1	113.4	-38.0	-33.6
KCYN0119	4/12/2024 8:33	56.3	43.7	0.0	0.0	127.9	128.0	-1.5	-1.6

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

Wellfield Monitoring Report - April 9, 10, 11, 12, 15, 16, and 24, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0121	4/12/2024 8:07	56.5	42.9	0.0	0.6	93.8	94.7	-37.3	-37.3
KCYN0122	4/12/2024 8:26	56.9	43.1	0.0	0.0	98.8	105.5	-35.3	-34.9
KCYN0123	4/16/2024 9:30	55.4	41.3	0.0	3.3	110.0	110.1	-19.9	-19.9
KCYN0124	4/15/2024 12:51	54.0	40.0	0.0	6.0	111.1	111.2	-3.5	-5.0
KCYN0125	4/15/2024 12:11	45.7	33.6	2.7	18.0	129.9	128.5	-22.3	-19.6
KCYN0126	4/15/2024 12:20	53.9	39.8	0.0	6.3	124.0	124.1	-18.3	-18.2
KCYN0127	4/16/2024 9:47	53.2	38.3	0.0	8.5	122.5	122.8	-8.4	-11.4
KCYN0128	4/16/2024 10:07	53.7	40.7	0.1	5.5	126.0	126.1	-24.9	-24.9
KCYN0129	4/15/2024 11:42	55.6	39.1	0.0	5.3	90.9	89.2	-40.4	-42.1
KCYN0130	4/12/2024 7:25	58.6	36.2	0.0	5.2	109.3	109.8	-3.4	-3.7
KCYN0131	4/12/2024 7:30	58.3	41.7	0.0	0.0	106.8	107.1	-42.3	-42.3
KCYN0133	4/10/2024 10:31	54.7	41.5	0.0	3.8	93.9	94.0	-28.8	-28.0
KCYN0134	4/10/2024 10:43	55.1	42.2	0.0	2.7	79.3	80.5	-27.6	-27.9
KCYN0135	4/10/2024 10:47	53.4	43.3	0.0	3.3	126.9	126.9	-25.1	-25.1
KCYN0162	4/12/2024 7:56	47.3	34.0	3.0	15.7	53.5	53.6	-39.6	-39.6
KCYN0163	4/12/2024 7:55	50.4	34.9	3.3	11.4	56.1	56.0	-38.8	-39.7
KCYN0164	4/12/2024 10:16	54.1	39.2	0.9	5.8	61.8	63.5	-40.6	-39.8
KCYN0165	4/12/2024 10:10	47.2	37.0	0.0	15.8	118.8	118.5	-27.8	-21.1
KCYN0166	4/12/2024 12:12	53.8	39.9	0.6	5.7	126.4	127.2	-2.4	-3.0
KCYN0167	4/12/2024 12:08	53.0	38.0	1.2	7.8	117.7	117.6	-37.0	-36.6
KCYN0168	4/12/2024 12:02	48.2	38.2	0.0	13.6	121.9	119.5	-34.7	-30.4
KCYN0169	4/10/2024 12:24	54.2	42.5	0.0	3.3	111.3	111.5	-1.2	-1.8
KCYN0169	4/11/2024 13:22	55.6	42.5	0.0	1.9	111.4	111.4	-2.0	-2.0
KCYN0169	4/24/2024 12:43	47.2	39.6	0.0	13.2	111.7	111.7	-2.5	-2.5
KCYN0170	4/10/2024 12:32	52.9	43.4	0.0	3.7	106.9	107.0	-2.8	-3.6
KCYN0170	4/11/2024 13:26	54.5	42.5	0.0	3.0	107.1	107.1	-4.1	-4.1
KCYN0171	4/10/2024 12:37	53.6	43.4	0.0	3.0	115.4	115.6	-8.3	-10.1
KCYN0171	4/11/2024 13:33	55.7	43.7	0.0	0.6	116.0	116.1	-12.9	-13.2
KCYN0172	4/10/2024 12:16	55.2	40.6	0.2	4.0	118.3	118.5	-4.2	-5.6
KCYN0172	4/11/2024 13:18	56.2	42.4	0.3	1.1	118.4	118.5	-6.0	-6.2
KCYNLR04	4/12/2024 8:47	55.4	38.8	0.4	5.4	97.7	97.6	-23.0	-23.9
KCYNLR08	4/9/2024 8:23	54.9	35.9	1.8	7.4	75.4	75.8	-49.9	-51.1
KCYNLR11	4/12/2024 12:37	34.1	33.2	3.1	29.6	76.9	83.5	-0.6	-0.5
KCYNLR12	4/9/2024 11:09	55.6	41.1	0.1	3.2	83.0	83.1	-2.3	-3.9

\*The following wells are approved to operate at a temperature HOV 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 temperature HOV of 156°F .

As of April 30, 2024, 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 - May 6, 7, 8, 9, 10, and 14, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	5/9/2024 6:40	48.3	37.6	0.0	14.1	82.3	82.3	-38.6	-38.6
KCLC0109	5/9/2024 6:33	58.8	40.9	0.0	0.3	83.7	84.2	-40.9	-41.9
KCLC0110	5/9/2024 6:30	58.1	41.8	0.0	0.1	100.3	100.3	-44.4	-44.1
KCLC0111	5/8/2024 9:24	52.2	40.2	1.1	6.5	65.0	65.0	-44.5	-44.1
KCLC0112	5/8/2024 9:18	55.5	41.9	0.0	2.6	82.4	82.5	-43.0	-43.0
KCLC0139	5/8/2024 9:27	53.6	42.2	0.0	4.2	117.7	117.9	-22.1	-22.1
KCLC0140	5/8/2024 9:24	51.1	40.1	0.9	7.9	70.3	72.5	-12.2	-25.3
KCLC0141	5/8/2024 9:10	51.0	38.8	0.0	10.2	96.3	96.8	-3.5	-8.1
KCLC0142	5/8/2024 9:16	37.1	34.0	0.0	28.9	101.4	101.4	-0.7	-0.7
KCLC0143	5/8/2024 8:03	47.9	38.6	0.0	13.5	102.2	102.2	-1.1	-1.0
KCLC0145	5/9/2024 7:17	57.5	41.7	0.0	0.8	60.7	60.3	-36.1	-37.1
KCLC0147	5/9/2024 7:28	49.8	34.9	2.9	12.4	59.8	59.9	-39.2	-38.7
KCLC0149	5/9/2024 7:11	57.6	42.4	0.0	0.0	95.6	96.0	-7.0	-9.8
KCLC0151	5/9/2024 7:31	57.2	42.2	0.0	0.6	119.0	119.1	-5.3	-7.1
KCLC0152	5/9/2024 7:40	57.3	42.1	0.0	0.6	109.7	110.9	-6.9	-8.7
KCLC0153	5/9/2024 7:04	57.7	41.0	0.0	1.3	98.0	98.2	-4.3	-5.0
KCLC0154	5/9/2024 7:08	56.9	41.1	0.0	2.0	101.1	101.6	-2.6	-3.8
KCLC0155	5/9/2024 7:15	57.9	42.1	0.0	0.0	109.0	111.1	-1.8	-4.2
KCLC0156	5/9/2024 7:24	58.2	41.4	0.0	0.4	84.1	88.7	-4.5	-15.4
KCLC0157	5/9/2024 7:49	28.2	22.8	10.2	38.8	56.6	56.6	-20.4	-21.2
KCLC0157	5/9/2024 8:01	21.0	16.9	12.9	49.2	61.8	61.8	-23.0	-22.3
KCLC0157	5/9/2024 10:14	45.0	33.4	3.9	17.7	80.7	80.9	-19.6	-20.5
KCLC0158	5/8/2024 8:44	51.1	40.2	0.0	8.7	109.7	110.0	-8.0	-11.1
KCLC0159	5/8/2024 8:35	46.7	36.8	0.0	16.5	108.2	105.0	-1.2	0.0
KCLC0160	5/8/2024 8:13	55.0	41.1	0.7	3.2	65.0	65.1	-42.6	-42.6
KCLC0161	5/8/2024 8:08	48.9	39.5	0.0	11.6	113.2	113.5	-21.7	-18.5
KCYN0014	5/9/2024 6:44	52.0	32.8	0.0	15.2	99.5	98.3	-4.7	-4.4
KCYN0027	5/9/2024 11:05	53.4	39.3	0.9	6.4	84.6	85.2	-44.0	-45.5
KCYN0048	5/8/2024 9:05	51.3	40.2	0.0	8.5	87.5	86.4	-1.0	-1.1
KCYN0051	5/8/2024 7:53	55.8	41.6	0.0	2.6	85.1	85.1	-25.0	-25.0
KCYN0054	5/8/2024 9:02	13.8	12.1	13.7	60.4	78.7	78.9	-6.2	-6.2
KCYN0056	5/8/2024 8:08	54.7	42.9	0.0	2.4	122.3	122.1	-26.1	-26.0
KCYN0057	5/8/2024 8:25	53.5	41.6	0.2	4.7	59.2	66.3	-6.3	-21.3
KCYN0058	5/8/2024 8:29	49.6	40.3	0.0	10.1	129.3	129.9	-4.1	-4.7
KCYN0062	5/7/2024 7:16	57.3	42.3	0.4	0.0	99.5	103.8	-47.7	-48.5
KCYN0063	5/7/2024 7:23	7.0	6.2	17.2	69.6	66.5	65.8	-50.7	-50.7
KCYN0065	5/8/2024 9:20	52.6	39.4	0.6	7.4	72.1	72.2	-25.2	-25.2
KCYN0066	5/7/2024 6:57	58.4	41.5	0.0	0.1	123.8	123.7	-48.6	-48.6
KCYN0070	5/7/2024 8:00	59.0	41.0	0.0	0.0	108.9	109.1	-8.9	-10.7
KCYN0071	5/7/2024 7:40	57.6	42.4	0.0	0.0	126.8	126.8	-47.6	-46.5
KCYN0072	5/7/2024 7:12	47.3	38.3	0.0	14.4	108.3	107.6	-15.5	-13.2
KCYN0074	5/6/2024 10:17	55.2	41.0	0.0	3.8	124.8	121.4	-43.6	-42.5
KCYN0075	5/8/2024 8:34	54.8	41.8	0.0	3.4	103.8	105.2	-23.0	-23.1
KCYN0076	5/8/2024 7:50	57.3	42.6	0.1	0.0	96.7	93.9	-28.4	-28.4
KCYN0078	5/9/2024 7:29	57.0	42.6	0.0	0.4	129.8	129.4	-26.0	-26.0
KCYN0082	5/8/2024 8:48	55.1	41.9	0.0	3.0	113.1	114.3	-6.5	-7.8
KCYN0084	5/8/2024 7:49	56.0	38.5	0.1	5.4	118.4	119.5	-1.9	-2.6
KCYN0086	5/9/2024 7:57	55.1	43.0	0.0	1.9	129.2	129.5	-18.4	-18.5
KCYN0087	5/9/2024 7:52	52.4	41.1	0.0	6.5	127.8	129.7	-18.3	-23.0
KCYN0088	5/7/2024 7:48	56.7	38.9	0.0	4.4	107.6	107.8	-21.6	-24.3
KCYN0089	5/8/2024 7:21	58.3	41.4	0.4	-0.1	124.6	127.3	-15.6	-16.3
KCYN0089	5/9/2024 7:18	56.6	42.0	0.0	1.4	129.4	129.1	-19.0	-19.8
KCYN0090	5/7/2024 7:54	59.4	40.6	0.0	0.0	101.4	101.4	-47.8	-47.8
KCYN0091	5/8/2024 7:27	55.5	39.8	0.2	4.5	127.3	128.4	-37.2	-36.8
KCYN0092	5/6/2024 10:19	57.7	40.5	0.0	1.8	122.2	122.3	-43.5	-43.6
KCYN0093	5/6/2024 9:57	58.9	41.1	0.0	0.0	108.2	108.2	-46.1	-45.4
KCYN0094	5/7/2024 7:53	59.2	39.3	1.6	-0.1	117.1	117.4	-44.9	-40.1
KCYN0095									
					Offline for filling				
KCYN0097	5/7/2024 7:55	57.9	42.0	0.0	0.1	117.6	117.6	-40.0	-40.0
KCYN0098	5/14/2024 12:11	57.1	42.8	0.0	0.1	128.8	128.8	-34.4	-34.4
KCYN0099	5/7/2024 7:33	54.1	41.7	0.0	4.2	124.4	125.3	-15.2	-17.7
KCYN0101	5/7/2024 7:42	39.5	34.9	0.3	25.3	53.9	53.7	-47.0	-46.9
KCYN0102	5/7/2024 7:38	51.6	38.5	0.0	9.9	97.2	98.7	-2.1	-2.7
KCYN0103	5/7/2024 7:44	55.2	39.6	0.0	5.2	115.7	115.8	-7.3	-7.3
KCYN0105	5/8/2024 9:27	55.0	40.7	0.3	4.0	72.3	72.5	-44.3	-44.3
KCYN0118	5/8/2024 8:10	55.3	41.7	0.0	3.0	113.0	112.8	-40.0	-35.6
KCYN0119	5/8/2024 7:56	56.9	43.1	0.0	0.0	128.9	129.3	-1.2	-1.3
KCYN0121	5/8/2024 8:42	55.6	41.8	0.5	2.1	94.0	94.4	-42.0	-41.5
KCYN0122	5/8/2024 8:03	56.9	42.8	0.3	0.0	106.7	106.8	-39.8	-39.1
KCYN0123	5/8/2024 8:12	52.7	42.3	0.2	4.8	129.8	129.3	-20.8	-20.8
KCYN0124	5/8/2024 7:58	46.1	38.3	0.0	15.6	110.1	110.1	-7.3	-6.1
KCYN0125	5/8/2024 9:06	55.6	40.7	0.0	3.7	127.4	127.3	-9.2	-9.3
KCYN0126	5/8/2024 8:39	47.4	38.8	1.7	12.1	126.2	126.2	-16.7	-15.4
KCYN0127	5/8/2024 8:19	52.3	41.3	0.0	6.4	86.7	80.3	-13.7	-15.8
KCYN0128	5/9/2024 7:53	55.0	43.5	0.0	1.5	127.9	127.2	-22.9	-22.9

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
 Wellfield Monitoring Report - May 6, 7, 8, 9, 10, and 14, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0129	5/9/2024 7:46	56.7	41.4	0.0	1.9	92.2	92.4	-38.6	-37.6
KCYN0130	5/8/2024 9:38	50.2	36.2	0.0	13.6	110.9	110.9	-5.5	-5.4
KCYN0131	5/8/2024 9:30	55.4	41.4	0.6	2.6	110.2	110.7	-44.1	-44.5
KCYN0133	5/9/2024 7:22	54.4	41.0	0.6	4.0	80.9	81.5	-25.7	-26.2
KCYN0134	5/9/2024 7:32	54.2	39.7	0.6	5.5	65.7	65.9	-26.1	-26.5
KCYN0135	5/9/2024 7:36	55.6	44.0	0.0	0.4	124.5	124.4	-24.5	-24.5
KCYN0162	5/8/2024 8:17	54.5	39.5	1.0	5.0	68.2	68.3	-42.2	-43.3
KCYN0163	5/8/2024 8:21	54.0	37.4	1.4	7.2	66.8	66.9	-3.1	-3.1
KCYN0164	5/8/2024 8:26	55.3	39.4	1.0	4.3	65.6	65.9	-43.5	-44.7
KCYN0165	5/8/2024 8:29	56.9	41.0	0.0	2.1	119.4	119.3	-13.6	-14.9
KCYN0166	5/8/2024 9:09	52.2	40.6	0.0	7.2	127.5	127.6	-4.1	-4.7
KCYN0167	5/8/2024 8:56	57.4	40.0	0.2	2.4	117.6	117.6	-39.2	-39.7
KCYN0168	5/8/2024 8:46	53.9	41.5	0.1	4.5	116.2	119.8	-10.6	-11.2
KCYN0169	5/6/2024 13:16	45.4	38.0	0.0	16.6	111.7	111.5	-2.7	-1.6
KCYN0170	5/6/2024 13:35	50.8	40.7	0.0	8.5	107.1	107.1	-4.6	-4.8
KCYN0170	5/10/2024 12:33	51.3	42.2	0.0	6.5	107.7	107.6	-5.3	-5.8
KCYN0171	5/6/2024 13:41	55.7	42.9	0.0	1.4	116.4	116.5	-14.9	-15.4
KCYN0171	5/10/2024 12:37	53.6	42.8	0.0	3.6	116.9	116.9	-16.4	-17.1
KCYN0172	5/6/2024 13:09	53.4	41.5	0.0	5.1	118.5	118.5	-7.8	-8.0
KCYN0172	5/10/2024 12:27	51.5	41.7	0.0	6.8	119.0	118.9	-9.1	-9.7
KCYNLR04	5/9/2024 7:40	53.5	38.1	0.5	7.9	95.6	95.6	-24.3	-25.6
KCYNLR08	5/7/2024 7:04	60.1	39.6	0.2	0.1	73.4	73.4	-51.8	-52.0
KCYNLR11	5/9/2024 12:02	46.5	30.9	3.8	18.8	79.2	79.6	-1.6	-0.3
KCYNLR12	5/6/2024 13:02	49.3	38.8	0.4	11.5	85.0	85.1	-5.7	-5.1
KCYNLR12	5/10/2024 12:21	50.8	39.9	0.5	8.8	86.8	86.2	-3.9	-5.0

\*The following wells are approved to operate at a temperature HOV 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 temperature HOV of 156°F.

As of May 31, 2024, 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 - June 3, 4, 5, 6, 10, and 14, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCLC0108	6/5/2024 6:04	47.8	36.8	0.0	15.4	93.5	93.4	-37.8	-35.6
KCLC0109	6/5/2024 5:53	59.0	40.7	0.0	0.3	92.1	92.1	-39.9	-40.0
KCLC0110	6/5/2024 5:50	58.8	41.2	0.0	0.0	107.4	107.4	-42.2	-42.7
KCLC0111	6/5/2024 6:25	52.8	40.2	1.1	5.9	64.5	64.5	-43.1	-43.1
KCLC0112	6/5/2024 6:33	57.4	42.4	0.0	0.2	87.3	87.4	-39.6	-38.9
KCLC0139	6/4/2024 7:35	57.2	42.6	0.0	0.2	116.1	116.9	-21.0	-21.5
KCLC0140	6/4/2024 7:43	56.5	43.4	0.0	0.1	65.9	67.8	-22.5	-24.3
KCLC0141	6/4/2024 6:28	43.2	33.3	0.0	23.5	98.6	98.7	-8.8	-8.8
KCLC0142	6/4/2024 6:31	28.5	28.6	0.0	42.9	100.5	100.5	-0.9	-0.3
KCLC0143	6/4/2024 7:01	52.1	38.5	0.0	9.4	105.0	105.4	-1.0	-1.5
KCLC0145	6/6/2024 10:02	55.0	42.3	0.0	2.7	82.2	82.1	-36.2	-36.1
KCLC0147	6/6/2024 10:24	55.9	42.1	0.0	2.0	78.1	78.2	-36.2	-35.8
KCLC0149	6/6/2024 10:51	51.4	38.1	0.0	10.5	111.7	111.7	-8.9	-8.8
KCLC0151	6/6/2024 10:22	54.9	41.3	0.0	3.8	120.6	120.6	-9.6	-12.1
KCLC0152	6/6/2024 10:19	53.7	40.0	0.0	6.3	113.5	113.7	-12.8	-13.8
KCLC0153	6/6/2024 9:52	53.8	40.6	0.0	5.6	99.4	99.5	-5.0	-6.0
KCLC0154	6/6/2024 9:56	46.6	39.1	0.0	14.3	103.2	102.6	-4.5	-2.7
KCLC0155	6/6/2024 10:00	55.8	41.9	0.0	2.3	112.6	113.2	-4.9	-7.2
KCLC0156	6/6/2024 10:06	56.4	41.1	0.0	2.5	95.4	95.9	-17.1	-23.3
KCLC0157	6/6/2024 7:37	18.5	15.3	13.3	52.9	61.2	61.2	-24.4	-24.4
KCLC0157	6/6/2024 7:40	38.2	28.0	6.5	27.3	62.9	62.9	-23.9	-24.4
KCLC0158	6/4/2024 6:50	50.3	39.7	0.0	10.0	113.3	113.2	-9.6	-9.6
KCLC0159	6/5/2024 11:42	54.3	39.6	0.0	6.1	108.2	108.5	-0.9	-1.8
KCLC0160	6/5/2024 6:45	51.6	36.2	1.7	10.5	66.2	66.2	-37.9	-39.7
KCLC0161	6/5/2024 11:28	46.5	38.9	0.0	14.6	116.8	116.4	-16.1	-14.5
KCYN0014	6/5/2024 6:08	53.1	32.8	0.0	14.1	99.7	99.7	-3.0	-3.0
KCYN0027	6/5/2024 10:29	57.7	38.2	0.0	4.1	98.1	98.6	-46.1	-46.1
KCYN0048	6/5/2024 12:02	43.4	37.5	0.0	19.1	125.8	125.1	-2.1	-1.8
KCYN0051	6/4/2024 6:58	60.5	38.1	0.4	1.0	91.0	91.0	-23.9	-24.2
KCYN0054	6/4/2024 6:40	9.8	14.5	14.1	61.6	71.9	71.9	-12.3	-12.3
KCYN0056	6/4/2024 7:28	55.7	43.1	0.0	1.2	123.2	123.2	-23.8	-23.7
KCYN0057	6/4/2024 7:16	56.4	42.3	0.1	1.2	74.2	82.3	-22.6	-24.0
KCYN0058	6/4/2024 7:20	51.7	40.2	0.0	8.1	128.6	128.7	-6.1	-6.0
KCYN0062	6/6/2024 9:15	54.3	40.9	0.0	4.8	110.1	110.4	-47.7	-47.7
KCYN0063	6/6/2024 9:19	0.8	9.2	17.1	72.9	70.3	70.3	-50.4	-50.4
KCYN0065	6/4/2024 7:46	52.6	40.4	0.5	6.5	67.2	67.5	-22.9	-22.9
KCYN0066	6/3/2024 8:21	52.5	40.4	0.0	7.1	124.0	123.9	-47.8	-47.8
KCYN0070	6/6/2024 8:55	53.4	39.3	0.5	6.8	111.4	111.3	-11.5	-13.6
KCYN0071	6/6/2024 8:26	51.4	42.2	0.0	6.4	127.8	127.7	-47.1	-47.1
KCYN0072	6/6/2024 9:23	58.1	39.1	0.0	2.8	107.4	106.1	-4.1	-6.6
KCYN0074	6/5/2024 9:51	59.4	37.5	0.4	2.7	103.9	104.1	-44.7	-46.2
KCYN0075	6/4/2024 7:32	56.6	43.0	0.0	0.4	101.0	101.4	-22.6	-22.6
KCYN0076	6/5/2024 11:01	54.5	42.4	0.0	3.1	127.3	127.2	-26.9	-27.0
KCYN0078	6/3/2024 8:57	52.4	39.3	0.2	8.1	129.3	129.4	-22.3	-22.0
KCYN0078	6/6/2024 8:06	49.3	38.5	0.0	12.2	127.8	126.8	-19.9	-18.7
KCYN0082	6/4/2024 6:36	55.8	40.7	0.0	3.5	116.9	116.9	-9.9	-10.6
KCYN0084	6/4/2024 7:05	53.4	40.2	0.0	6.4	122.8	123.2	-2.9	-4.1
KCYN0086	6/6/2024 7:47	55.5	42.2	0.0	2.3	126.3	126.5	-24.2	-24.2
KCYN0087	6/10/2024 10:03	47.5	40.5	0.0	12.0	128.5	127.8	-16.6	-16.6
KCYN0088	6/5/2024 10:37	52.8	38.7	0.0	8.5	109.9	109.9	-29.2	-29.6
KCYN0089	6/5/2024 11:06	52.9	42.1	0.0	5.0	129.9	130.4	-20.4	-23.2
KCYN0090	6/6/2024 8:49	56.3	42.4	0.0	1.3	104.2	104.1	-47.4	-47.3
KCYN0091	6/5/2024 10:57	56.0	39.3	0.0	4.7	128.7	128.2	-37.8	-38.2
KCYN0092	6/10/2024 11:43	60.6	39.4	0.0	0.0	116.9	116.9	-14.3	-14.3
KCYN0093	6/5/2024 10:54	56.4	42.0	0.0	1.6	106.0	105.9	-46.0	-46.0
KCYN0094	6/5/2024 10:40	55.6	39.9	0.0	4.5	126.0	126.0	-38.9	-38.3
KCYN0095	6/14/2024 12:34	59.4	39.3	0.0	1.3	108.7	108.7	-32.5	-32.5
KCYN0097	6/6/2024 8:46	56.8	41.8	0.0	1.4	119.0	119.0	-38.6	-38.6
KCYN0098	6/5/2024 10:44	56.4	41.7	0.0	1.9	129.9	129.9	-35.2	-35.2
KCYN0099	6/6/2024 9:00	49.1	40.1	0.0	10.8	121.0	120.0	-19.3	-19.3
KCYN0101	6/6/2024 9:06	36.7	33.7	1.1	28.5	100.8	100.4	-1.5	-1.4
KCYN0102	6/6/2024 9:04	39.1	35.0	0.0	25.9	102.7	102.9	-3.1	-2.5
KCYN0103	6/6/2024 8:22	45.0	37.6	0.0	17.4	118.4	117.7	-11.1	-9.5
KCYN0105	6/5/2024 6:31	55.9	40.7	0.4	3.0	75.1	75.3	-43.0	-43.0
KCYN0118	6/5/2024 11:25	52.4	43.3	0.0	4.3	118.2	117.9	-38.2	-37.8
KCYN0119	6/5/2024 11:17	55.9	39.4	0.0	4.7	130.2	130.3	-3.6	-3.8
KCYN0121	6/5/2024 11:47	54.6	39.8	0.0	5.6	105.2	105.2	-38.1	-38.0
KCYN0122	6/5/2024 11:20	53.3	44.5	0.0	2.2	110.8	110.7	-37.2	-37.3
KCYN0123	6/4/2024 7:25	52.8	41.8	0.6	4.8	128.4	128.1	-18.1	-18.1
KCYN0124	6/4/2024 6:53	53.9	40.2	0.0	5.9	110.7	110.9	-4.4	-4.9
KCYN0125	6/4/2024 7:39	56.5	41.4	0.0	2.1	127.1	127.7	-12.0	-12.1

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

Wellfield Monitoring Report - June 3, 4, 5, 6, 10, and 14, 2024

Device Name	Date Time	CH <sub>4</sub> % by Volume	CO <sub>2</sub> % by Volume	O <sub>2</sub> % by Volume	Balance % by Volume	Initial Temperature (degrees F)	Adjusted Temperature (degrees F)	Initial Pressure (in. w.c.)	Adjusted Pressure (in. w.c.)
KCYN0126	6/4/2024 6:45	59.7	37.7	0.4	2.2	127.5	127.5	-16.2	-15.6
KCYN0127	6/4/2024 7:12	53.3	40.7	0.0	6.0	118.3	122.2	-16.0	-16.0
KCYN0128	6/6/2024 7:43	55.7	41.4	0.0	2.9	129.8	129.5	-25.5	-25.5
KCYN0129	6/6/2024 10:12	54.8	41.2	0.0	4.0	97.3	98.2	-36.1	-36.4
KCYN0130	6/5/2024 6:15	51.3	36.0	0.0	12.7	111.7	111.5	-5.5	-5.2
KCYN0131	6/5/2024 6:21	56.8	39.5	0.0	3.7	114.2	114.1	-43.1	-42.8
KCYN0133	6/3/2024 8:53	52.3	38.1	0.0	9.6	77.1	77.2	-22.1	-22.5
KCYN0134	6/3/2024 9:02	53.3	40.2	0.0	6.5	76.9	76.8	-21.2	-21.2
KCYN0135	6/10/2024 11:48	55.9	42.9	0.0	1.2	123.7	124.0	-14.2	-14.7
KCYN0162	6/5/2024 6:41	56.1	41.5	0.0	2.4	70.1	70.4	-41.1	-41.1
KCYN0163	6/5/2024 6:37	42.0	35.9	0.0	22.1	70.4	70.4	-11.0	-11.0
KCYN0164	6/6/2024 9:45	54.1	38.0	0.7	7.2	82.6	82.6	-41.4	-41.6
KCYN0165	6/5/2024 11:36	51.0	39.5	0.0	9.5	120.8	120.8	-19.3	-19.3
KCYN0166	6/5/2024 11:58	49.0	38.9	0.0	12.1	129.9	129.9	-4.7	-4.2
KCYN0167	6/5/2024 11:55	53.9	41.4	0.0	4.7	118.1	118.1	-37.6	-37.6
KCYN0168	6/5/2024 11:52	48.7	39.0	0.3	12.0	124.0	123.6	-16.2	-15.0
KCYN0169	6/3/2024 7:54	58.1	36.3	0.1	5.5	111.3	111.3	-0.8	-0.7
KCYN0170	6/3/2024 7:57	50.6	38.2	0.0	11.2	107.4	107.4	-6.5	-6.5
KCYN0171	6/3/2024 8:03	51.3	39.4	0.0	9.3	116.9	116.9	-19.4	-19.4
KCYN0172	6/10/2024 9:40	50.3	39.7	0.2	9.8	114.1	114.1	-10.8	-10.8
KCYNLR04	6/3/2024 10:19	50.4	34.7	0.0	14.9	98.2	98.3	-28.5	-26.6
KCYNLR08	6/3/2024 8:27	53.4	39.9	0.0	6.7	81.1	81.2	-47.9	-48.4
KCYNLR11	6/5/2024 6:02	52.8	28.7	0.9	17.6	65.3	65.3	-0.1	-0.1
KCYNLR12	6/3/2024 7:30	46.3	36.9	0.2	16.6	87.1	87.1	-6.4	-5.6

\*The following wells are approved to operate at a temperature HOV 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 temperature HOV of 156°F .

As of June 30, 2024, 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

March 7, 2024 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

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

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,  
Request for Breakdown Relief RCA Number 200227  
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 surge event on March 6, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted on March 6, 2024, at ~5:00 PM by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down on March 6, 2024, at ~3:12 PM during PG&E unplanned power surge. The flare was back online on March 6, 2024, at around ~4:44 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 surge, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the March 6, 2024, PG&E power surge event via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on March 6, 2024, and was assigned RCA number 200227 (see Attachment B for copy of RCA submittal).

The unplanned power surge shutdown noted in RCA 200227 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 200227

Attachment A  
KCRDF flare data

## Kirby Canyon Recycling and Disposal Facility

Date	Time	Flare F		Flare SCFM	
		MIN	MAX	MIN	MAX
2024/03/06	14:00:00	1539	1559	1912	1965
2024/03/06	14:02:00	1539	1562	1915	1963
2024/03/06	14:04:00	1543	1562	1912	1963
2024/03/06	14:06:00	1543	1558	1914	1958
2024/03/06	14:08:00	1537	1569	1910	1960
2024/03/06	14:10:00	1540	1565	1917	1959
2024/03/06	14:12:00	1543	1570	1912	1956
2024/03/06	14:14:00	1542	1557	1902	1954
2024/03/06	14:16:00	1541	1566	1910	1954
2024/03/06	14:18:00	1541	1562	1909	1959
2024/03/06	14:20:00	1543	1557	1898	1947
2024/03/06	14:22:00	1540	1564	1909	1954
2024/03/06	14:24:00	1541	1557	1896	1947
2024/03/06	14:26:00	1546	1562	1899	1942
2024/03/06	14:28:00	1539	1562	1898	1952
2024/03/06	14:30:00	1539	1563	1906	1955
2024/03/06	14:32:00	1539	1562	1906	1946
2024/03/06	14:34:00	1539	1560	1895	1934
2024/03/06	14:36:00	1540	1558	1871	1937
2024/03/06	14:38:00	1543	1561	1873	1926
2024/03/06	14:40:00	1538	1565	1877	1915
2024/03/06	14:42:00	1544	1565	1872	1916
2024/03/06	14:44:00	1543	1565	1874	1917
2024/03/06	14:46:00	1546	1558	1870	1914
2024/03/06	14:48:00	1540	1555	1863	1931
2024/03/06	14:50:00	1543	1567	1873	1920
2024/03/06	14:52:00	1540	1562	1869	1923
2024/03/06	14:54:00	1544	1566	1869	1927
2024/03/06	14:56:00	1546	1554	1885	1933
2024/03/06	14:58:00	1543	1565	1881	1924
2024/03/06	15:00:00	1542	1562	1888	1929
2024/03/06	15:02:00	1543	1554	1870	1923
2024/03/06	15:04:00	1544	1560	1871	1928
2024/03/06	15:06:00	1539	1565	1877	1921
2024/03/06	15:08:00	1544	1565	1868	1926
2024/03/06	15:10:00	1539	1558	1878	1929
2024/03/06	15:12:00				
2024/03/06	15:14:00	1041	1409	-404	77
2024/03/06	15:16:00	835	1041	-4	24
2024/03/06	15:18:00	699	835	-4	23
2024/03/06	15:20:00	596	699	-4	18
2024/03/06	15:22:00	516	596	-4	18
2024/03/06	15:24:00	450	516	-3	17
2024/03/06	15:26:00	396	450	-3	22
2024/03/06	15:28:00	354	396	-3	-3
2024/03/06	15:30:00	320	354	-3	-3
2024/03/06	15:32:00	287	320	-3	-3

2024/03/06	15:34:00	255	287	-3	-3
2024/03/06	15:36:00	222	255	-3	-3
2024/03/06	15:38:00	197	222	-3	-3
2024/03/06	15:40:00	175	197	-3	-3
2024/03/06	15:42:00	157	175	-3	-3
2024/03/06	15:44:00	139	157	-3	-1
2024/03/06	15:46:00	121	139	-3	-3
2024/03/06	15:48:00	103	121	-3	-3
2024/03/06	15:50:00	88	103	-3	-3
2024/03/06	15:52:00	77	88	-3	-3
2024/03/06	15:54:00	70	77	-3	-3
2024/03/06	15:56:00	64	70	-3	-3
2024/03/06	15:58:00	61	64	-3	-3
2024/03/06	16:00:00	58	61	-3	-3
2024/03/06	16:02:00	57	58	-3	-3
2024/03/06	16:04:00	56	57	-3	-3
2024/03/06	16:06:00	55	56	-3	-3
2024/03/06	16:08:00	55	55	-3	-3
2024/03/06	16:10:00	54	55	-3	-3
2024/03/06	16:12:00	54	55	-3	-3
2024/03/06	16:14:00	54	54	-3	-1
2024/03/06	16:16:00	54	54	-3	-3
2024/03/06	16:18:00	53	54	-3	-3
2024/03/06	16:20:00	53	54	-3	-3
2024/03/06	16:22:00	53	53	-3	-3
2024/03/06	16:24:00	53	53	-3	-3
2024/03/06	16:26:00	53	53	-3	-3
2024/03/06	16:28:00	51	53	-3	-3
2024/03/06	16:30:00	51	53	-3	-3
2024/03/06	16:32:00	51	52	-3	-3
2024/03/06	16:34:00	51	52	-3	-3
2024/03/06	16:36:00	51	52	-3	-3
2024/03/06	16:38:00	51	52	-3	-3
2024/03/06	16:40:00	51	53	-3	-3
2024/03/06	16:42:00	53	649	-3	4097
2024/03/06	16:44:00	649	1597	2275	2997
2024/03/06	16:46:00	1558	1602	2235	2333
2024/03/06	16:48:00	1544	1566	2258	2333
2024/03/06	16:50:00	1537	1554	2205	2281
2024/03/06	16:52:00	1541	1561	2179	2230
2024/03/06	16:54:00	1541	1559	2165	2222
2024/03/06	16:56:00	1541	1566	2128	2193
2024/03/06	16:58:00	1541	1561	2124	2174
2024/03/06	17:00:00	1539	1561	2097	2156
2024/03/06	17:02:00	1542	1563	2091	2137
2024/03/06	17:04:00	1541	1563	2078	2133
2024/03/06	17:06:00	1542	1559	2080	2115
2024/03/06	17:08:00	1544	1556	2078	2126
2024/03/06	17:10:00	1546	1556	2073	2110
2024/03/06	17:12:00	1546	1556	2051	2103
2024/03/06	17:14:00	1544	1559	2060	2103
2024/03/06	17:16:00	1544	1559	2055	2091

2024/03/06	17:18:00	1544	1563	2042	2096
2024/03/06	17:20:00	1541	1558	2047	2081
2024/03/06	17:22:00	1541	1561	2033	2083
2024/03/06	17:24:00	1547	1554	2041	2078
2024/03/06	17:26:00	1546	1556	2037	2078
2024/03/06	17:28:00	1542	1566	2042	2072
2024/03/06	17:30:00	1542	1558	2030	2065
2024/03/06	17:32:00	1544	1554	2023	2069
2024/03/06	17:34:00	1547	1554	2020	2063
2024/03/06	17:36:00	1547	1556	2023	2056
2024/03/06	17:38:00	1544	1561	2020	2063
2024/03/06	17:40:00	1544	1566	2017	2067
2024/03/06	17:42:00	1544	1559	2017	2055
2024/03/06	17:44:00	1542	1570	2017	2060
2024/03/06	17:46:00	1546	1558	2005	2056
2024/03/06	17:48:00	1546	1556	2010	2050
2024/03/06	17:50:00	1544	1556	2012	2046
2024/03/06	17:52:00	1541	1565	2006	2046
2024/03/06	17:54:00	1541	1561	2003	2051
2024/03/06	17:56:00	1544	1559	2002	2041
2024/03/06	17:58:00	1548	1554	2004	2035
2024/03/06	18:00:00	1544	1566	2000	2043

Attachment B  
Copy of KCRDF RCA Form -Number 200227

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Azevedo, Becky](#); [Colline, Christian](#); [Erin Phillips](#)  
**Subject:** [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power surge on 3.6.2024  
**Date:** Wednesday, March 6, 2024 5:07:15 PM

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ID# 200227

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**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Wednesday, March 6, 2024 4:57 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Phadnis, Rajan <rphadnis@wm.com>  
**Subject:** KCRDF A1812-RCA for PG&E power surge on 3.6.2024

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

I am attaching the RCA notification form for PG&E power surge event on 3.6.2024, 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

March 6, 2024 ([via email rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 surge/interruption on March 6, 2024, ~ 3:00 PM. A breakdown report about the PG&E's power surge is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on March 6, 2024, around ~5:00 PM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power surge. 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 March 6, 2024, the GCCS was back online at ~ 4:30 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

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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.  **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	3/6/2024 at ~3:00 PM	Clear Time	3/6/2024 at ~4:30 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power surge		
Unit(s) of Measurement			
	<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg		
	<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input checked="" type="checkbox"/> ▶ Other (describe)		

#### Event Description:

This breakdown report is being submitted on 3/6/2024 at ~ 5:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power surge. During the PG&E power surge, 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 3/6/2024.

### District Use Only

Received by

Date

Time

### General Instructions

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

## Detailed Instructions

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

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

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

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

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

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

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

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

- Check Box #3 only if inoperative for greater than 24hours.
- 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

March 7, 2024 ([via email: compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: 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 March 6, 2024, at ~5:00 PM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on March 6, 2024, at ~3:12 PM during PG&E unplanned power surge event. The flare was online on March 6, 2024, at ~4:44 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 March 6, 2024, PG&E power surge via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on March 6, 2024, and was assigned RCA number 200227 (see Attachment B for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 200227 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 200227

Attachment A  
KCRDF flare data

## Kirby Canyon Recycling and Disposal Facility

Date	Time	Flare F		Flare SCFM	
		MIN	MAX	MIN	MAX
2024/03/06	14:00:00	1539	1559	1912	1965
2024/03/06	14:02:00	1539	1562	1915	1963
2024/03/06	14:04:00	1543	1562	1912	1963
2024/03/06	14:06:00	1543	1558	1914	1958
2024/03/06	14:08:00	1537	1569	1910	1960
2024/03/06	14:10:00	1540	1565	1917	1959
2024/03/06	14:12:00	1543	1570	1912	1956
2024/03/06	14:14:00	1542	1557	1902	1954
2024/03/06	14:16:00	1541	1566	1910	1954
2024/03/06	14:18:00	1541	1562	1909	1959
2024/03/06	14:20:00	1543	1557	1898	1947
2024/03/06	14:22:00	1540	1564	1909	1954
2024/03/06	14:24:00	1541	1557	1896	1947
2024/03/06	14:26:00	1546	1562	1899	1942
2024/03/06	14:28:00	1539	1562	1898	1952
2024/03/06	14:30:00	1539	1563	1906	1955
2024/03/06	14:32:00	1539	1562	1906	1946
2024/03/06	14:34:00	1539	1560	1895	1934
2024/03/06	14:36:00	1540	1558	1871	1937
2024/03/06	14:38:00	1543	1561	1873	1926
2024/03/06	14:40:00	1538	1565	1877	1915
2024/03/06	14:42:00	1544	1565	1872	1916
2024/03/06	14:44:00	1543	1565	1874	1917
2024/03/06	14:46:00	1546	1558	1870	1914
2024/03/06	14:48:00	1540	1555	1863	1931
2024/03/06	14:50:00	1543	1567	1873	1920
2024/03/06	14:52:00	1540	1562	1869	1923
2024/03/06	14:54:00	1544	1566	1869	1927
2024/03/06	14:56:00	1546	1554	1885	1933
2024/03/06	14:58:00	1543	1565	1881	1924
2024/03/06	15:00:00	1542	1562	1888	1929
2024/03/06	15:02:00	1543	1554	1870	1923
2024/03/06	15:04:00	1544	1560	1871	1928
2024/03/06	15:06:00	1539	1565	1877	1921
2024/03/06	15:08:00	1544	1565	1868	1926
2024/03/06	15:10:00	1539	1558	1878	1929
2024/03/06	15:12:00				
2024/03/06	15:14:00	1041	1409	-404	77
2024/03/06	15:16:00	835	1041	-4	24
2024/03/06	15:18:00	699	835	-4	23
2024/03/06	15:20:00	596	699	-4	18
2024/03/06	15:22:00	516	596	-4	18
2024/03/06	15:24:00	450	516	-3	17
2024/03/06	15:26:00	396	450	-3	22
2024/03/06	15:28:00	354	396	-3	-3
2024/03/06	15:30:00	320	354	-3	-3
2024/03/06	15:32:00	287	320	-3	-3

2024/03/06	15:34:00	255	287	-3	-3
2024/03/06	15:36:00	222	255	-3	-3
2024/03/06	15:38:00	197	222	-3	-3
2024/03/06	15:40:00	175	197	-3	-3
2024/03/06	15:42:00	157	175	-3	-3
2024/03/06	15:44:00	139	157	-3	-1
2024/03/06	15:46:00	121	139	-3	-3
2024/03/06	15:48:00	103	121	-3	-3
2024/03/06	15:50:00	88	103	-3	-3
2024/03/06	15:52:00	77	88	-3	-3
2024/03/06	15:54:00	70	77	-3	-3
2024/03/06	15:56:00	64	70	-3	-3
2024/03/06	15:58:00	61	64	-3	-3
2024/03/06	16:00:00	58	61	-3	-3
2024/03/06	16:02:00	57	58	-3	-3
2024/03/06	16:04:00	56	57	-3	-3
2024/03/06	16:06:00	55	56	-3	-3
2024/03/06	16:08:00	55	55	-3	-3
2024/03/06	16:10:00	54	55	-3	-3
2024/03/06	16:12:00	54	55	-3	-3
2024/03/06	16:14:00	54	54	-3	-1
2024/03/06	16:16:00	54	54	-3	-3
2024/03/06	16:18:00	53	54	-3	-3
2024/03/06	16:20:00	53	54	-3	-3
2024/03/06	16:22:00	53	53	-3	-3
2024/03/06	16:24:00	53	53	-3	-3
2024/03/06	16:26:00	53	53	-3	-3
2024/03/06	16:28:00	51	53	-3	-3
2024/03/06	16:30:00	51	53	-3	-3
2024/03/06	16:32:00	51	52	-3	-3
2024/03/06	16:34:00	51	52	-3	-3
2024/03/06	16:36:00	51	52	-3	-3
2024/03/06	16:38:00	51	52	-3	-3
2024/03/06	16:40:00	51	53	-3	-3
2024/03/06	16:42:00	53	649	-3	4097
2024/03/06	16:44:00	649	1597	2275	2997
2024/03/06	16:46:00	1558	1602	2235	2333
2024/03/06	16:48:00	1544	1566	2258	2333
2024/03/06	16:50:00	1537	1554	2205	2281
2024/03/06	16:52:00	1541	1561	2179	2230
2024/03/06	16:54:00	1541	1559	2165	2222
2024/03/06	16:56:00	1541	1566	2128	2193
2024/03/06	16:58:00	1541	1561	2124	2174
2024/03/06	17:00:00	1539	1561	2097	2156
2024/03/06	17:02:00	1542	1563	2091	2137
2024/03/06	17:04:00	1541	1563	2078	2133
2024/03/06	17:06:00	1542	1559	2080	2115
2024/03/06	17:08:00	1544	1556	2078	2126
2024/03/06	17:10:00	1546	1556	2073	2110
2024/03/06	17:12:00	1546	1556	2051	2103
2024/03/06	17:14:00	1544	1559	2060	2103
2024/03/06	17:16:00	1544	1559	2055	2091



2024/03/06	17:18:00	1544	1563	2042	2096
2024/03/06	17:20:00	1541	1558	2047	2081
2024/03/06	17:22:00	1541	1561	2033	2083
2024/03/06	17:24:00	1547	1554	2041	2078
2024/03/06	17:26:00	1546	1556	2037	2078
2024/03/06	17:28:00	1542	1566	2042	2072
2024/03/06	17:30:00	1542	1558	2030	2065
2024/03/06	17:32:00	1544	1554	2023	2069
2024/03/06	17:34:00	1547	1554	2020	2063
2024/03/06	17:36:00	1547	1556	2023	2056
2024/03/06	17:38:00	1544	1561	2020	2063
2024/03/06	17:40:00	1544	1566	2017	2067
2024/03/06	17:42:00	1544	1559	2017	2055
2024/03/06	17:44:00	1542	1570	2017	2060
2024/03/06	17:46:00	1546	1558	2005	2056
2024/03/06	17:48:00	1546	1556	2010	2050
2024/03/06	17:50:00	1544	1556	2012	2046
2024/03/06	17:52:00	1541	1565	2006	2046
2024/03/06	17:54:00	1541	1561	2003	2051
2024/03/06	17:56:00	1544	1559	2002	2041
2024/03/06	17:58:00	1548	1554	2004	2035
2024/03/06	18:00:00	1544	1566	2000	2043

Attachment B  
Copy of KCRDF RCA Form -Number 200227

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Azevedo, Becky](#); [Colline, Christian](#); [Erin Phillips](#)  
**Subject:** [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power surge on 3.6.2024  
**Date:** Wednesday, March 6, 2024 5:07:15 PM

---

ID# 200227

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**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Wednesday, March 6, 2024 4:57 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Azevedo, Becky <Razevedo@wm.com>; Colline, Christian <CColline@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Phadnis, Rajan <rphadnis@wm.com>  
**Subject:** KCRDF A1812-RCA for PG&E power surge on 3.6.2024

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

I am attaching the RCA notification form for PG&E power surge event on 3.6.2024, 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

March 6, 2024 ([via email rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 surge/interruption on March 6, 2024, ~ 3:00 PM. A breakdown report about the PG&E's power surge is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on March 6, 2024, around ~5:00 PM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power surge. 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 March 6, 2024, the GCCS was back online at ~ 4:30 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

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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.  **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	3/6/2024 at ~3:00 PM	Clear Time	3/6/2024 at ~4:30 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power surge		
Unit(s) of Measurement			
	<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg		
	<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input checked="" type="checkbox"/> ▶ Other (describe)		

#### Event Description:

This breakdown report is being submitted on 3/6/2024 at ~ 5:00 PM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power surge. During the PG&E power surge, 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 3/6/2024.

### District Use Only

Received by

Date

Time

### General Instructions

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

## Detailed Instructions

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

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

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

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

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

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

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

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

- Check Box #3 only if inoperative for greater than 24hours.
- 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

April 3, 2024 ([via email: compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: 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 March 31, 2024, at ~8:00 AM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on March 30, 2024, at ~5:14 PM during PG&E unplanned power surge event. The flare was online on March 30, 2024, at ~6:48 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the March 30, 2024, PG&E power surge via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on March 31, 2024, and was assigned RCA number 200259 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 200259 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

A handwritten signature in cursive script that reads "JK Jones".

Jessica K Jones  
Area General Manager  
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- Copy of KCRDF RCA Form -Number 200259

Attachment A  
Copy of KCRDF RCA Form -Number 200259



**Kirby Canyon Recycling & Disposal Facility**

910 Coyote Creek Golf Drive  
PO Box 1870  
Morgan Hill, California 95037

March 31, 2024 ([via email rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 surge/interruption on March 30, 2024, ~ 5:00 PM. A breakdown report about the PG&E's power surge is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on March 31, 2024, around ~8:00 AM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power surge. 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 March 30, 2024, the GCCS was back online at ~5:50 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

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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.  **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	3/30/2024 at~5:00 PM	Clear Time	3/30/2024 at~5:50 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power surge		
Unit(s) of Measurement			
	<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg		
	<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input checked="" type="checkbox"/> ▶ Other (describe)		

Event Description:

This breakdown report is being submitted on 3/31/2024 at ~ 8:00 AM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power surge. During the PG&E power surge, 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 3/31/2024.

### District Use Only

Received by

Date

Time

### General Instructions

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

## Detailed Instructions

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

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

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

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

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

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

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

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

- Check Box #3 only if inoperative for greater than 24hours.
- 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:** [My Air Online](#)  
**To:** [Phadnis, Rajan](#)  
**Subject:** [EXTERNAL] Acknowledgement of Receipt of Breakdown Report: RCA ID# RCA200259  
**Date:** Monday, April 1, 2024 11:41:16 AM

---

Please do not reply to this message. This is an automatically generated notification.

Kirby Canyon Recycling and Disposal Facility  
Facility #: 1812  
910 Coyote Creek Drive  
Morgan Hill CA 95037-5037

Attention: Rebecca Azevedo  
Technical Manager

The Bay Area Air Quality Management District acknowledges Receipt of your Reportable Compliance Activity (RCA) Episode Report as described below:

RCA Type: Breakdown  
Location: 910 Coyote Creek Drive  
Morgan Hill CA 95037-5037

Source: Kirby Canyon MSW Landfill/Waste Decomposition Process S # 1

Started: 3/30/2024 5:00:00 PM  
Cleared: 3/30/2024 5:50:00 PM

Reported: 3/31/2024 7:56:00 AM  
By: Rajan Phadnis  
Phone: (510) 875-9338  
Email: rphadnis@wm.com

Problem: GCCS shutdown due to PG&E power surge

Monitor:  
Type:  
Parameter:

Breakdown or Excess RCA ID#:

Ind Excess:        Minutes avg  
Allow Limit:

Once reported, a breakdown may not be canceled or withdrawn under any circumstances. If the information shown above does not agree with the information originally reported, please call (415) 749-4979 with the corrections or submit corrections to [rca@baaqmd.gov](mailto:rca@baaqmd.gov). Reference the RCA ID# shown above.



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

April 3, 2024 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

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

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,  
Request for Breakdown Relief RCA Number 200259  
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 surge event on March 30, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted on March 31, 2024, at ~8:00 AM by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down on March 30, 2024, at ~5:14 PM during PG&E unplanned power surge. The flare was back online on March 30, 2024, at around ~6:48 PM. Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the March 30, 2024, PG&E power surge event via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on March 31, 2024, and was assigned RCA number 200259 (see Attachment A for copy of RCA submittal).

The unplanned power surge shutdown noted in RCA 200259 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

A handwritten signature in black ink that reads "JK Jones". The letters are cursive and fluid.

Jessica K Jones  
Area General Manager  
Northern California / Nevada

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- Copy of KCRDF RCA Form Number 200259

Attachment A  
Copy of KCRDF RCA Form Number 200259



**Kirby Canyon Recycling & Disposal Facility**

910 Coyote Creek Golf Drive  
PO Box 1870  
Morgan Hill, California 95037

March 31, 2024 ([via email rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 surge/interruption on March 30, 2024, ~ 5:00 PM. A breakdown report about the PG&E's power surge is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on March 31, 2024, around ~8:00 AM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power surge. 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 March 30, 2024, the GCCS was back online at ~5:50 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

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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.  **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	3/30/2024 at~5:00 PM	Clear Time	3/30/2024 at~5:50 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power surge		
Unit(s) of Measurement			
	<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg		
	<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input checked="" type="checkbox"/> ▶ Other (describe)		

#### Event Description:

This breakdown report is being submitted on 3/31/2024 at ~ 8:00 AM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power surge. During the PG&E power surge, 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 3/31/2024.

### District Use Only

Received by

Date

Time

### General Instructions

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

## Detailed Instructions

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

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

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

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

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

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

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

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

- Check Box #3 only if inoperative for greater than 24hours.
- 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:** [My Air Online](#)  
**To:** [Phadnis, Rajan](#)  
**Subject:** [EXTERNAL] Acknowledgement of Receipt of Breakdown Report: RCA ID# RCA200259  
**Date:** Monday, April 1, 2024 11:41:16 AM

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Please do not reply to this message. This is an automatically generated notification.

Kirby Canyon Recycling and Disposal Facility  
Facility #: 1812  
910 Coyote Creek Drive  
Morgan Hill CA 95037-5037

Attention: Rebecca Azevedo  
Technical Manager

The Bay Area Air Quality Management District acknowledges Receipt of your Reportable Compliance Activity (RCA) Episode Report as described below:

RCA Type: Breakdown  
Location: 910 Coyote Creek Drive  
Morgan Hill CA 95037-5037

Source: Kirby Canyon MSW Landfill/Waste Decomposition Process S # 1

Started: 3/30/2024 5:00:00 PM  
Cleared: 3/30/2024 5:50:00 PM

Reported: 3/31/2024 7:56:00 AM  
By: Rajan Phadnis  
Phone: (510) 875-9338  
Email: rphadnis@wm.com

Problem: GCCS shutdown due to PG&E power surge

Monitor:  
Type:  
Parameter:

Breakdown or Excess RCA ID#:

Ind Excess:        Minutes avg  
Allow Limit:

Once reported, a breakdown may not be canceled or withdrawn under any circumstances. If the information shown above does not agree with the information originally reported, please call (415) 749-4979 with the corrections or submit corrections to [rca@baaqmd.gov](mailto:rca@baaqmd.gov). Reference the RCA ID# shown above.



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

April 11, 2024 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
375 Beale Street, Suite 600  
San Francisco, California 94105  
Attn: 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 April 8, at ~7:10 AM by KCRDF because the landfill gas collection and control system (GCCS) temporarily shut down on April 7, 2024, at ~8:30 PM during PG&E unplanned power surge event. The flare was online on April 7, 2024, at ~9:50 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, KCRDF submitted the request for Breakdown Relief from BAAQMD for the April 7, 2024, PG&E power surge via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on April 8, 2024 and was assigned RCA number 200267 (see Attachment A for copy of RCA submittal).

The unplanned power outage shutdown noted in RCA number 200267 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) 225-5209.

Sincerely,  
Kirby Canyon Recycling & Disposal Facility



Michael Tejero  
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- Copy of KCRDF RCA Form -Number 200267

|

Attachment A

Copy of KCRDF RCA Form -Number 200267



**Kirby Canyon Recycling & Disposal Facility**

910 Coyote Creek Golf Drive  
PO Box 1870  
Morgan Hill, California 95037

April 8, 2024 ([via email rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 surge/interruption on April 7, 2024, ~ 8:30 PM. A breakdown report about the PG&E's power surge is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on April 8, 2024, around ~7:10 AM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power surge. 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 April 7, 2024, the GCCS was back online at ~9:50 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

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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.  **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	4/7/2024 at~8:30 PM	Clear Time	4/7/2024 at~9:50 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power surge		
Unit(s) of Measurement			
	<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg		
	<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input checked="" type="checkbox"/> ▶ Other (describe)		

#### Event Description:

This breakdown report is being submitted on 4/8/2024 at ~ 7:10 AM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power surge. During the PG&E power surge, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 4/8/2024.

### District Use Only

Received by

Date

Time

### General Instructions

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

## Detailed Instructions

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

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

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

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

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

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

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

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

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

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

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

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

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Colline, Christian](#); [Tejero, Michael](#); [Erin Phillips](#); [Azevedo, Becky](#)  
**Subject:** [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power surge on 3.30.2024  
**Date:** Monday, April 8, 2024 10:19:41 AM

---

I am confirming receipt, the RCA for your notification is 200267

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Monday, April 8, 2024 7:09  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Phadnis, Rajan <rphadnis@wm.com>; Colline, Christian <CColline@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>  
**Subject:** KCRDF A1812-RCA for PG&E power surge on 3.30.2024

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

I am attaching the RCA notification form for PG&E power surge event on 4.7.2024 at ~8:30 PM, 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  
T: 408.779.2206

April 11, 2024 (via email: [compliance@baaqmd.gov](mailto:compliance@baaqmd.gov))

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

Re: Kirby Canyon Recycling & Disposal Facility, San Jose, CA. Facility Number A1812,  
Request for Breakdown Relief RCA Number 200267  
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 surge event on April 7, 2024.

A breakdown report (Per Regulation 1, Section 431) was submitted on April 8, 2024, at ~7:10 AM by KCRDF because the landfill gas collection and control system (GCCS) was temporarily shut down on April 7, 2024, at ~8:30 PM during PG&E unplanned power surge. The flare was back online on April 7, 2024, at around ~9:50 PM. Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, KCRDF submitted the request for Breakdown Relief from BAAQMD for the April 8, 2024, PG&E power surge event via BAAQMD’s Reportable Compliance Activity (RCA) notification form submitted on April 8, 2024, and was assigned RCA number 200267 (see Attachment A for copy of RCA submittal).

The unplanned power surge shutdown noted in RCA 200267 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) 225-5209.

Sincerely,  
Kirby Canyon Recycling & Disposal Facility



Michael Tejero  
District Manager

cc: Erin Phillips, BAAQMD

Attachments:

Attachment A- Copy of KCRDF RCA Form Number 200267

Attachment A  
Copy of KCRDF RCA Form Number 200267



**Kirby Canyon Recycling & Disposal Facility**

910 Coyote Creek Golf Drive  
PO Box 1870  
Morgan Hill, California 95037

April 8, 2024 ([via email rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 surge/interruption on April 7, 2024, ~ 8:30 PM. A breakdown report about the PG&E's power surge is being submitted via this letter to Bay Area Air Quality Management District (BAAQMD) on April 8, 2024, around ~7:10 AM.

Although KCRDF disagrees that Breakdown Relief is the appropriate methodology for compliance with Rule 8-34 during an unplanned power surge, due to direction from BAAQMD staff, this letter is to request Breakdown Relief from BAAQMD for the PG&E power surge. 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 April 7, 2024, the GCCS was back online at ~9:50 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

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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.  **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	4/7/2024 at~8:30 PM	Clear Time	4/7/2024 at~9:50 PM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Parameter(s) exceeded or not functioning due to inoperation		
	<input type="checkbox"/> ▶ NO <sub>x</sub> <input type="checkbox"/> ▶ SO <sub>2</sub> <input type="checkbox"/> ▶ CO <input type="checkbox"/> ▶ CO <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> S <input type="checkbox"/> ▶ TRS <input type="checkbox"/> ▶ NH <sub>3</sub>		
	<input type="checkbox"/> ▶ O <sub>2</sub> <input type="checkbox"/> ▶ H <sub>2</sub> O <input type="checkbox"/> ▶ Opacity <input type="checkbox"/> ▶ Lead <input type="checkbox"/> ▶ Gauge Pressure <input type="checkbox"/> ▶ Flow		
	<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC) <input type="checkbox"/> ▶ Temperature <input type="checkbox"/> ▶ Wind Speed		
	<input type="checkbox"/> ▶ Wind Direction <input type="checkbox"/> ▶ Steam <input checked="" type="checkbox"/> ▶ Other (describe) Power surge		
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm <input type="checkbox"/> ▶ ppb <input type="checkbox"/> ▶ min/hr > 20% <input type="checkbox"/> ▶ inches H <sub>2</sub> O <input type="checkbox"/> ▶ mmHg			
<input type="checkbox"/> ▶ psig <input type="checkbox"/> ▶ pH <input type="checkbox"/> ▶ °Fahrenheit <input checked="" type="checkbox"/> ▶ Other (describe)			

#### Event Description:

This breakdown report is being submitted on 4/8/2024 at ~ 7:10 AM by Kirby Canyon Recycling & Disposal Facility (KCRDF) because the GCCS was temporarily shut down due to the potential PG&E power surge. During the PG&E power surge, the GCCS was potentially out of compliance with BAAQMD regulation 8-34-301.1. Please also see objections and discussion in the attached cover letter dated 4/8/2024.

### District Use Only

Received by

Date

Time

### General Instructions

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

## **Detailed Instructions**

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

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

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

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

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

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

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

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

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

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

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

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

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Colline, Christian](#); [Tejero, Michael](#); [Erin Phillips](#); [Azevedo, Becky](#)  
**Subject:** [EXTERNAL] RE: KCRDF A1812-RCA for PG&E power surge on 3.30.2024  
**Date:** Monday, April 8, 2024 10:19:41 AM

---

I am confirming receipt, the RCA for your notification is 200267

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Monday, April 8, 2024 7:09  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Phadnis, Rajan <rphadnis@wm.com>; Colline, Christian <CColline@wm.com>; Tejero, Michael <mtejero@wm.com>; Erin Phillips <ephillips@baaqmd.gov>; Azevedo, Becky <Razevedo@wm.com>  
**Subject:** KCRDF A1812-RCA for PG&E power surge on 3.30.2024

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

I am attaching the RCA notification form for PG&E power surge event on 4.7.2024 at ~8:30 PM, 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

January 22, 2024 (via email [rca@baaqmd.gov](mailto:rca@baaqmd.gov))

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

**Re: Reportable Compliance Activity (RCA) Notification  
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 inoperative flowmeter that recorded out of range flow data readings for more than a 24-hour period. The flare was operating normally during this period with steady temperature and vacuum readings. Maintenance was performed on the flowmeter and it returned to normal operation.

Sincerely,  
Kirby Canyon Recycling & Disposal Facility

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

Rajan Phadnis  
EP Specialist

cc: Erin Phillips, BAAQMD

Attachment: RCA Form 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. NA  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	NA
Start Time/Date	1/19/24 ~22:36	Clear Time	1/22/24 at ~8:30 AM
Monitor/device type(s)	<input type="checkbox"/> ▶ CEM <input type="checkbox"/> ▶ GLM <input checked="" type="checkbox"/> ▶ Parametric <input type="checkbox"/> ▶ PRD <input type="checkbox"/> ▶ Non-monitor		
Monitor description(s)	Gas flowmeter		
Parameter(s) exceeded or not functioning due to inoperation			
<input type="checkbox"/> ▶ NO <sub>x</sub>	<input type="checkbox"/> ▶ SO <sub>2</sub>	<input type="checkbox"/> ▶ CO	<input type="checkbox"/> ▶ CO <sub>2</sub>
<input type="checkbox"/> ▶ O <sub>2</sub>	<input type="checkbox"/> ▶ H <sub>2</sub> O	<input type="checkbox"/> ▶ Opacity	<input type="checkbox"/> ▶ Lead
<input type="checkbox"/> ▶ Hydrocarbon Breakthrough (VOC)	<input type="checkbox"/> ▶ Temperature	<input type="checkbox"/> ▶ Wind Speed	<input type="checkbox"/> ▶ TRS
<input type="checkbox"/> ▶ Wind Direction	<input type="checkbox"/> ▶ Steam	<input type="checkbox"/> ▶ Other (describe)	<input type="checkbox"/> ▶ NH <sub>3</sub>
Unit(s) of Measurement			
<input type="checkbox"/> ▶ ppm	<input type="checkbox"/> ▶ ppb	<input type="checkbox"/> ▶ min/hr > 20%	<input type="checkbox"/> ▶ inches H <sub>2</sub> O
<input type="checkbox"/> ▶ psig	<input type="checkbox"/> ▶ pH	<input type="checkbox"/> ▶ °Fahrenheit	<input checked="" type="checkbox"/> ▶ Other (describe) Scfm
<input type="checkbox"/> ▶ Flow			

Event Description:

This report is being submitted by Kirby Canyon Recycling & Disposal Facility for inoperative flowmeter that recorded out of range flow data readings for more than a 24-hour period. The flare was operating normally during this period with steady temperature and vacuum readings. Maintenance was performed on the flowmeter and it returned to normal operation.

### District Use Only

Received by

Date

Time

### General Instructions

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

## Detailed Instructions

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

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- Check Box #1.
- NOTE:** Start and end times given for these events in the required information section must be inclusive of all events.
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- 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)**

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

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

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

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- All reports of inoperative monitors must be reported by the following BAAQMD working day and additionally be cleared by a notification of resumption of monitoring. To notify the BAAQMD regarding the resumption of monitoring, do not send in a separate RCA form; call (415) 749-4979 and give the RCA ID #, date, and the time of resumption.
- Inoperative monitors (except parametric monitors) with downtime greater than 15 days must furnish proof of expedited repair in a follow-up report.

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

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

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

**From:** [RCA Notification](#)  
**To:** [Phadnis, Rajan](#)  
**Cc:** [Colline, Christian](#); [Azevedo, Becky](#); [Erin Phillips](#)  
**Subject:** [EXTERNAL] RE: KCRDF A1812-RCA -1.22.2024  
**Date:** Monday, January 22, 2024 5:32:57 PM

---

Good Afternoon,

Confirming receipt, the RCA# for this notification is RCA200121.

Cheers,  
Joe Dobosz

---

**From:** Phadnis, Rajan <rphadnis@wm.com>  
**Sent:** Monday, January 22, 2024 5:15 PM  
**To:** RCA Notification <rca@baaqmd.gov>  
**Cc:** Colline, Christian <CColline@wm.com>; Azevedo, Becky <Razevedo@wm.com>; Phadnis, Rajan <rphadnis@wm.com>; Erin Phillips <ephillips@baaqmd.gov>  
**Subject:** KCRDF A1812-RCA -1.22.2024

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

I am attaching the RCA notification form for 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.**

## **APPENDIX K**

### **WELLFIELD DEVIATION LOG**

KIRBY CANYON RECYCLING & DISPOSAL FACILITY  
WELLFIELD DEVIATION REPORT  
Reporting Period: From January 1 2024 through June 30, 2024

REPORT PREPARED BY: Rajan Phadnis  
UPDATED DATE: July 1, 2024  
LFG MONITORING DEVICE: GEM  
MODEL: 2000  
DATE LAST CALIBRATED: DAILY

Well ID	Date and Time	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	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
KCYN0054	4/12/2024 9:20	16.9	15.8	12.2	55.1	79.6	80.0	-4.3	-4.1	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCYN0054	4/22/2024 7:02	14.9	13.3	13.2	58.6	75.3	75.2	-4.3	-4.3	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCYN0054	5/8/2024 9:02	13.8	12.1	13.7	60.4	78.7	78.9	-6.2	-6.2	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCYN0054	6/4/2024 6:40	9.8	14.5	14.1	61.6	71.9	71.9	-12.3	-12.3	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	>70
Well KCYN0054 has an existing oxygen exceedance.											
KCYN0063	4/10/2024 8:28	15.9	16.0	9.7	58.4	68.9	69.0	-22.4	-50.0	NSPS/EG CAI;Barely Open;Watered In	
KCYN0063	4/16/2024 12:34	19.2	15.7	12.0	53.1	71.8	71.5	-49.9	-49.9	Barely Open;No Adj. Made;Watered In	
KCYN0063	5/7/2024 7:23	7.0	6.2	17.2	69.6	66.5	65.8	-50.7	-50.7	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCYN0063	6/6/2024 9:19	0.8	9.2	17.1	72.9	70.3	70.3	-50.4	-50.4	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	>73
Well KCYN0063 has an existing oxygen exceedance.											
KCLC0157	5/9/2024 7:49	28.2	22.8	10.2	38.8	56.6	56.6	-20.4	-21.2	NSPS/EG CAI;Fully Closed;No Adj. Made;Surging	
KCLC0157	5/9/2024 8:01	21.0	16.9	12.9	49.2	61.8	61.8	-23.0	-22.3	NSPS/EG CAI;Barely Open;Watered In	
KCLC0157	5/9/2024 10:14	45.0	33.4	3.9	17.7	80.7	80.9	-19.6	-20.5	NSPS/EG CAI;Barely Open;No Adj. Made	<1
Well KCLC0157 had oxygen exceedance during May monitoring.											
KCLC0157	6/6/2024 7:37	18.5	15.3	13.3	52.9	61.2	61.2	-24.4	-24.4	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	
KCLC0157	6/6/2024 7:40	38.2	28.0	6.5	27.3	62.9	62.9	-23.9	-24.4	NSPS/EG CAI;Barely Open;No Adj. Made;Watered In	>24
Well KCLC0157 has an existing oxygen exceedance.											

EG CAI= Emissions Guidelines Corrective Action Initiated

## **APPENDIX L**

### **MONTHLY LANDFILL GAS FLOW RATES**

**MONTHLY LFG Input to Flare (A-12)                      January 1, 2024-June 30, 2024**  
**KIRBY CANYON RECYCLING & DISPOSAL FACILITY, San Jose, CA**

Month	Total Available Runtime (hours)	Total Downtime (hours)	Total Runtime (hours)	Average Flow (scfm)	CH <sub>4</sub> (%)*	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Total Heat Input (MMBTU)
<b>January-24</b>	744.0	5.0	739.03	2,190	46.6	97,115,694	45,270,481	45,859
<b>February-24</b>	696.0	5.1	690.93	2,119	46.6	87,812,369	40,933,736	41,466
<b>March 2024<sup>1</sup></b>	743.0	4.7	738.27	1,960	46.6	86,830,892	40,476,220	41,002
<b>April-24</b>	720.0	2.5	717.50	1,997	48.1	85,963,495	41,358,922	41,897
<b>May-24</b>	744.0	2.2	741.80	2,053	48.8	91,347,126	44,607,999	45,188
<b>June-24</b>	720.0	11.5	708.50	2,032	48.8	86,357,446	42,171,363	42,720
<b>January 1-June 30, 2024, Totals/Avg</b>	<b>4,367.0</b>	<b>31.0</b>	<b>4,336.0</b>	<b>2,058</b>	<b>47.6</b>	<b>535,427,022</b>	<b>254,818,721</b>	<b>258,131</b>

**NOTES:**

\*\*Methane content determined from March 3, 2023 and February 14, 2024 source test events.

<sup>1</sup>There were 743 hours in March 2024, 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<sub>4</sub>= methane

<b>MONTHLY LFG Input to Flare (A-12)</b>		
<b>KIRBY CANYON RECYCLING &amp; DISPOSAL FACILITY, San Jose,</b>		
<b>MONTHLY LFG Heat Input: Partial 2024</b>		
<b>Month</b>	<b>Monthly Total Heat Input (MMBTU)</b>	<b>12-Month Total Heat Input (MMBTU)</b>
<b>January-24</b>	45,859	454,012
<b>February-24</b>	41,466	463,174
<b>March-24</b>	41,002	469,838
<b>April-24</b>	41,897	474,955
<b>May-24</b>	45,188	480,022
<b>June-24</b>	42,720	483,172
MMBTU= million British thermal units		



**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
**San Jose, CA**

Heat Input Rate  
A-12 Flare

MONTH: January-24

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
1/1/2024	24.00	46.6	2,133	3,071,501	1,431,780	1,013.0	1,450
1/2/2024	24.00	46.6	2,115	3,045,282	1,419,558	1,013.0	1,438
1/3/2024	24.00	46.6	2,123	3,057,715	1,425,354	1,013.0	1,444
1/4/2024	24.00	46.6	2,143	3,086,378	1,438,715	1,013.0	1,457
1/5/2024	24.00	46.6	2,130	3,067,894	1,430,099	1,013.0	1,449
1/6/2024	24.00	46.6	2,109	3,036,321	1,415,381	1,013.0	1,434
1/7/2024	24.00	46.6	2,089	3,008,341	1,402,338	1,013.0	1,421
1/8/2024	24.00	46.6	2,135	3,074,056	1,432,971	1,013.0	1,452
1/9/2024	24.00	46.6	2,138	3,079,182	1,435,361	1,013.0	1,454
1/10/2024	23.57	46.6	2,129	3,011,026	1,403,590	1,013.0	1,422
1/11/2024	23.97	46.6	2,162	3,108,466	1,449,011	1,013.0	1,468
1/12/2024	24.00	46.6	2,131	3,068,472	1,430,368	1,013.0	1,449
1/13/2024	24.00	46.6	2,131	3,068,012	1,430,154	1,013.0	1,449
1/14/2024	24.00	46.6	2,134	3,073,003	1,432,480	1,013.0	1,451
1/15/2024	24.00	46.6	2,132	3,070,017	1,431,088	1,013.0	1,450
1/16/2024	24.00	46.6	2,133	3,071,666	1,431,857	1,013.0	1,450
1/17/2024	24.00	46.6	2,140	3,081,182	1,436,293	1,013.0	1,455
1/18/2024	24.00	46.6	2,131	3,068,695	1,430,472	1,013.0	1,449
1/19/2024	23.53	46.6	2,219	3,133,074	1,460,482	1,013.0	1,479
1/20/2024	24.00	46.6	2,775	3,996,000	1,862,735	1,013.0	1,887
1/21/2024	24.00	46.6	2,775	3,996,000	1,862,735	1,013.0	1,887
1/22/2024	22.67	46.6	2,386	3,244,830	1,512,578	1,013.0	1,532
1/23/2024	23.23	46.6	2,159	3,009,595	1,402,923	1,013.0	1,421
1/24/2024	24.00	46.6	2,117	3,048,732	1,421,166	1,013.0	1,440
1/25/2024	24.00	46.6	2,139	3,080,543	1,435,995	1,013.0	1,455
1/26/2024	24.00	46.6	2,146	3,089,654	1,440,242	1,013.0	1,459
1/27/2024	24.00	46.6	2,156	3,105,008	1,447,399	1,013.0	1,466
1/28/2024	24.00	46.6	2,154	3,101,357	1,445,698	1,013.0	1,464
1/29/2024	22.07	46.6	2,182	2,889,582	1,346,979	1,013.0	1,364
1/30/2024	24.00	46.6	2,192	3,156,695	1,471,493	1,013.0	1,491
1/31/2024	24.00	46.6	2,165	3,117,415	1,453,183	1,013.0	1,472
<b>Totals/ Average:</b>	<b>739.03</b>	<b>46.6</b>	<b>2,190</b>	<b>97,115,694</b>	<b>45,270,481</b>	1,013.0	<b>45,859</b>
						<b>Maximum</b>	<b>1,887</b>

**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<sub>4</sub>= methane

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
**San Jose, CA**

Heat Input Rate

A-12 Flare

MONTH: February-24

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
2/1/2024	24.00	46.6	2,150	3,096,597	1,443,479	1,013.0	1,462
2/2/2024	22.83	46.6	2,184	2,992,723	1,395,058	1,013.0	1,413
2/3/2024	24.00	46.6	2,167	3,121,183	1,454,939	1,013.0	1,474
2/4/2024	20.27	46.6	2,183	2,655,090	1,237,670	1,013.0	1,254
2/5/2024	24.00	46.6	2,126	3,061,924	1,427,316	1,013.0	1,446
2/6/2024	24.00	46.6	2,166	3,119,450	1,454,132	1,013.0	1,473
2/7/2024	24.00	46.6	2,168	3,121,931	1,455,288	1,013.0	1,474
2/8/2024	23.83	46.6	2,199	3,143,891	1,465,525	1,013.0	1,485
2/9/2024	24.00	46.6	2,146	3,090,670	1,440,716	1,013.0	1,459
2/10/2024	24.00	46.6	2,107	3,033,621	1,414,122	1,013.0	1,433
2/11/2024	24.00	46.6	2,116	3,047,067	1,420,390	1,013.0	1,439
2/12/2024	24.00	46.6	2,093	3,013,921	1,404,939	1,013.0	1,423
2/13/2024	24.00	46.6	2,061	2,967,584	1,383,339	1,013.0	1,401
2/14/2024	24.00	46.6	2,064	2,972,078	1,385,434	1,013.0	1,403
2/15/2024	24.00	46.6	2,067	2,976,835	1,387,652	1,013.0	1,406
2/16/2024	24.00	46.6	2,070	2,980,666	1,389,437	1,013.0	1,408
2/17/2024	24.00	46.6	2,057	2,962,170	1,380,816	1,013.0	1,399
2/18/2024	24.00	46.6	2,067	2,976,654	1,387,567	1,013.0	1,406
2/19/2024	24.00	46.6	2,061	2,967,153	1,383,138	1,013.0	1,401
2/20/2024	24.00	46.6	2,077	2,990,242	1,393,901	1,013.0	1,412
2/21/2024	24.00	46.6	2,110	3,038,154	1,416,235	1,013.0	1,435
2/22/2024	24.00	46.6	2,157	3,105,640	1,447,694	1,013.0	1,467
2/23/2024	24.00	46.6	2,165	3,116,982	1,452,981	1,013.0	1,472
2/24/2024	24.00	46.6	2,169	3,123,593	1,456,063	1,013.0	1,475
2/25/2024	24.00	46.6	2,149	3,094,448	1,442,477	1,013.0	1,461
2/26/2024	24.00	46.6	2,112	3,040,917	1,417,523	1,013.0	1,436
2/27/2024	24.00	46.6	2,084	3,001,537	1,399,166	1,013.0	1,417
2/28/2024	24.00	46.6	2,099	3,022,141	1,408,771	1,013.0	1,427
2/29/2024	24.00	46.6	2,068	2,977,507	1,387,965	1,013.0	1,406
<b>Totals/ Average:</b>	<b>690.93</b>	<b>46.6</b>	<b>2,119</b>	<b>87,812,369</b>	<b>40,933,736</b>	1,013.0	<b>41,466</b>
						<b>Maximum</b>	<b>1,485</b>

**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<sub>4</sub>= methane

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
**San Jose, CA**

Heat Input Rate

A-12 Flare

MONTH: March-24

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
3/1/2024	24.00	46.6	2,057	2,961,865	1,380,673	1,013.0	1,399
3/2/2024	24.00	46.6	2,047	2,947,508	1,373,981	1,013.0	1,392
3/3/2024	24.00	46.6	2,049	2,950,082	1,375,181	1,013.0	1,393
3/4/2024	24.00	46.6	2,058	2,963,797	1,381,574	1,013.0	1,400
3/5/2024	24.00	46.6	2,008	2,891,091	1,347,682	1,013.0	1,365
3/6/2024	22.50	46.6	1,941	2,620,872	1,221,719	1,013.0	1,238
3/7/2024	22.30	46.6	1,957	2,618,822	1,220,764	1,013.0	1,237
3/8/2024	24.00	46.6	1,936	2,787,780	1,299,524	1,013.0	1,316
3/9/2024	24.00	46.6	1,921	2,766,607	1,289,654	1,013.0	1,306
3/10/2024	23.00	46.6	1,916	2,643,675	1,232,349	1,013.0	1,248
3/11/2024	24.00	46.6	1,911	2,752,540	1,283,097	1,013.0	1,300
3/12/2024	24.00	46.6	1,943	2,797,730	1,304,162	1,013.0	1,321
3/13/2024	24.00	46.6	1,970	2,836,547	1,322,256	1,013.0	1,339
3/14/2024	24.00	46.6	1,972	2,840,118	1,323,921	1,013.0	1,341
3/15/2024	24.00	46.6	1,967	2,831,831	1,320,058	1,013.0	1,337
3/16/2024	24.00	46.6	1,963	2,826,749	1,317,689	1,013.0	1,335
3/17/2024	24.00	46.6	1,967	2,833,053	1,320,628	1,013.0	1,338
3/18/2024	24.00	46.6	1,963	2,826,854	1,317,738	1,013.0	1,335
3/19/2024	24.00	46.6	1,939	2,792,030	1,301,505	1,013.0	1,318
3/20/2024	24.00	46.6	1,952	2,810,541	1,310,134	1,013.0	1,327
3/21/2024	24.00	46.6	1,960	2,822,370	1,315,648	1,013.0	1,333
3/22/2024	24.00	46.6	1,938	2,790,990	1,301,020	1,013.0	1,318
3/23/2024	24.00	46.6	1,919	2,763,593	1,288,249	1,013.0	1,305
3/24/2024	24.00	46.6	1,914	2,755,936	1,284,680	1,013.0	1,301
3/25/2024	24.00	46.6	1,933	2,783,822	1,297,679	1,013.0	1,315
3/26/2024	24.00	46.6	1,939	2,792,832	1,301,879	1,013.0	1,319
3/27/2024	24.00	46.6	1,944	2,799,491	1,304,983	1,013.0	1,322
3/28/2024	24.00	46.6	1,952	2,810,201	1,309,975	1,013.0	1,327
3/29/2024	24.00	46.6	1,930	2,778,971	1,295,417	1,013.0	1,312
3/30/2024	22.47	46.6	1,943	2,619,092	1,220,890	1,013.0	1,237
3/31/2024	24.00	46.6	1,954	2,813,502	1,311,514	1,013.0	1,329
<b>Totals/ Average:</b>	<b>738.27</b>	<b>46.6</b>	<b>1,960</b>	<b>86,830,892</b>	<b>40,476,220</b>	1,013.0	<b>41,002</b>
						<b>Maximum</b>	<b>1,400</b>

**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<sub>4</sub>= methane

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
**San Jose, CA**

Heat Input Rate

A-12 Flare

MONTH: April-24

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
4/1/2024	24.00	46.6	1,940	2,793,888	1,302,371	1,013.0	1,319
4/2/2024	24.00	46.6	1,955	2,814,523	1,311,990	1,013.0	1,329
4/3/2024	24.00	46.6	1,951	2,809,720	1,309,751	1,013.0	1,327
4/4/2024	24.00	46.6	1,916	2,759,150	1,286,178	1,013.0	1,303
4/5/2024	24.00	46.6	1,905	2,743,092	1,278,692	1,013.0	1,295
4/6/2024	24.00	46.6	1,927	2,775,494	1,293,797	1,013.0	1,311
4/7/2024	22.73	46.6	1,952	2,661,936	1,240,861	1,013.0	1,257
4/8/2024	24.00	46.6	1,965	2,830,259	1,319,325	1,013.0	1,336
4/9/2024	23.50	46.6	2,005	2,826,842	1,317,732	1,013.0	1,335
4/10/2024	24.00	46.6	2,038	2,934,693	1,368,007	1,013.0	1,386
4/11/2024	23.27	48.8	2,099	2,929,925	1,430,785	1,013.0	1,449
4/12/2024	24.00	48.8	2,043	2,942,342	1,436,849	1,013.0	1,456
4/13/2024	24.00	48.8	2,007	2,889,661	1,411,123	1,013.0	1,429
4/14/2024	24.00	48.8	2,026	2,917,925	1,424,925	1,013.0	1,443
4/15/2024	24.00	48.8	2,016	2,902,365	1,417,326	1,013.0	1,436
4/16/2024	24.00	48.8	2,008	2,890,930	1,411,742	1,013.0	1,430
4/17/2024	24.00	48.8	2,036	2,931,399	1,431,505	1,013.0	1,450
4/18/2024	24.00	48.8	2,003	2,884,921	1,408,808	1,013.0	1,427
4/19/2024	24.00	48.8	1,992	2,868,209	1,400,647	1,013.0	1,419
4/20/2024	24.00	48.8	1,999	2,878,559	1,405,701	1,013.0	1,424
4/21/2024	24.00	48.8	2,024	2,914,564	1,423,284	1,013.0	1,442
4/22/2024	24.00	48.8	1,998	2,877,071	1,404,974	1,013.0	1,423
4/23/2024	24.00	48.8	1,987	2,861,595	1,397,417	1,013.0	1,416
4/24/2024	24.00	48.8	2,014	2,900,194	1,416,266	1,013.0	1,435
4/25/2024	24.00	48.8	2,026	2,917,801	1,424,864	1,013.0	1,443
4/26/2024	24.00	48.8	2,021	2,909,967	1,421,039	1,013.0	1,440
4/27/2024	24.00	48.8	2,027	2,919,470	1,425,679	1,013.0	1,444
4/28/2024	24.00	48.8	2,024	2,915,019	1,423,506	1,013.0	1,442
4/29/2024	24.00	48.8	2,000	2,880,171	1,406,488	1,013.0	1,425
4/30/2024	24.00	48.8	2,001	2,881,810	1,407,289	1,013.0	1,426
<b>Totals/ Average:</b>	<b>717.50</b>	<b>48.1</b>	<b>1,997</b>	<b>85,963,495</b>	<b>41,358,922</b>	1,013.0	<b>41,897</b>
						<b>Maximum</b>	<b>1,456</b>

**NOTES:**

\*Starting April 11, 2024, Methane content determined from the February 14, 2024, 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<sub>4</sub>= methane

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
**San Jose, CA**

Heat Input Rate

A-12 Flare

MONTH: May-24

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
5/1/2024	24.00	48.8	2,021	2,910,549	1,421,323	1,013.0	1,440
5/2/2024	24.00	48.8	2,029	2,921,478	1,426,660	1,013.0	1,445
5/3/2024	24.00	48.8	2,029	2,922,260	1,427,042	1,013.0	1,446
5/4/2024	24.00	48.8	1,987	2,861,692	1,397,464	1,013.0	1,416
5/5/2024	24.00	48.8	2,002	2,883,458	1,408,093	1,013.0	1,426
5/6/2024	24.00	48.8	1,992	2,868,538	1,400,808	1,013.0	1,419
5/7/2024	24.00	48.8	1,975	2,844,055	1,388,852	1,013.0	1,407
5/8/2024	24.00	48.8	2,007	2,890,713	1,411,636	1,013.0	1,430
5/9/2024	24.00	48.8	2,039	2,936,069	1,433,785	1,013.0	1,452
5/10/2024	24.00	48.8	2,042	2,940,408	1,435,904	1,013.0	1,455
5/11/2024	24.00	48.8	2,067	2,976,863	1,453,706	1,013.0	1,473
5/12/2024	24.00	48.8	2,052	2,954,553	1,442,812	1,013.0	1,462
5/13/2024	24.00	48.8	2,051	2,953,169	1,442,136	1,013.0	1,461
5/14/2024	24.00	48.8	2,070	2,980,789	1,455,624	1,013.0	1,475
5/15/2024	24.00	48.8	2,083	2,998,850	1,464,443	1,013.0	1,483
5/16/2024	24.00	48.8	2,071	2,981,698	1,456,067	1,013.0	1,475
5/17/2024	24.00	48.8	2,074	2,986,704	1,458,512	1,013.0	1,477
5/18/2024	24.00	48.8	2,056	2,961,100	1,446,009	1,013.0	1,465
5/19/2024	24.00	48.8	2,078	2,992,217	1,461,204	1,013.0	1,480
5/20/2024	24.00	48.8	2,080	2,995,215	1,462,668	1,013.0	1,482
5/21/2024	24.00	48.8	2,085	3,002,060	1,466,011	1,013.0	1,485
5/22/2024	24.00	48.8	2,083	2,999,964	1,464,987	1,013.0	1,484
5/23/2024	24.00	48.8	2,070	2,980,960	1,455,707	1,013.0	1,475
5/24/2024	24.00	48.8	2,053	2,956,113	1,443,573	1,013.0	1,462
5/25/2024	24.00	48.8	2,052	2,954,344	1,442,710	1,013.0	1,461
5/26/2024	24.00	48.8	2,063	2,971,155	1,450,919	1,013.0	1,470
5/27/2024	24.00	48.8	2,054	2,957,461	1,444,232	1,013.0	1,463
5/28/2024	24.00	48.8	2,062	2,969,810	1,450,262	1,013.0	1,469
5/29/2024	24.00	48.8	2,073	2,985,039	1,457,699	1,013.0	1,477
5/30/2024	24.00	48.8	2,089	3,007,718	1,468,774	1,013.0	1,488
5/31/2024	21.80	48.8	2,142	2,802,124	1,368,375	1,013.0	1,386
<b>Totals/ Average:</b>	<b>741.80</b>	<b>48.8</b>	<b>2,053</b>	<b>91,347,126</b>	<b>44,607,999</b>	1,013.0	<b>45,188</b>
						<b>Maximum</b>	<b>1,488</b>

**NOTES:**

\*Starting April 11, 2024, Methane content determined from the February 14, 2024, 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<sub>4</sub>= methane

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**  
**San Jose, CA**

Heat Input Rate  
A-12 Flare

MONTH: June-24

Date	Runtime (hours)	CH <sub>4</sub> (%)*	Average Flow (scfm)	Total LFG Volume (scf)	Total CH <sub>4</sub> Volume (scf)	Heating Value of CH <sub>4</sub> (BTU/scf)	Heat Input (MMBTU)/Day
6/1/2024	24.00	48.8	2,086	3,003,723	1,466,823	1,013.0	1,486
6/2/2024	24.00	48.8	2,065	2,972,964	1,451,802	1,013.0	1,471
6/3/2024	22.30	48.8	2,080	2,783,266	1,359,166	1,013.0	1,377
6/4/2024	24.00	48.8	2,111	3,039,252	1,484,173	1,013.0	1,503
6/5/2024	24.00	48.8	2,090	3,010,129	1,469,951	1,013.0	1,489
6/6/2024	24.00	48.8	2,041	2,938,601	1,435,022	1,013.0	1,454
6/7/2024	24.00	48.8	2,005	2,887,905	1,410,265	1,013.0	1,429
6/8/2024	24.00	48.8	2,010	2,894,998	1,413,729	1,013.0	1,432
6/9/2024	24.00	48.8	2,013	2,898,929	1,415,648	1,013.0	1,434
6/10/2024	24.00	48.8	2,037	2,933,839	1,432,696	1,013.0	1,451
6/11/2024	24.00	48.8	2,044	2,943,858	1,437,589	1,013.0	1,456
6/12/2024	24.00	48.8	1,989	2,864,436	1,398,804	1,013.0	1,417
6/13/2024	24.00	48.8	1,991	2,866,458	1,399,792	1,013.0	1,418
6/14/2024	24.00	48.8	2,020	2,909,233	1,420,680	1,013.0	1,439
6/15/2024	24.00	48.8	2,024	2,914,566	1,423,285	1,013.0	1,442
6/16/2024	24.00	48.8	2,022	2,912,232	1,422,145	1,013.0	1,441
6/17/2024	24.00	48.8	2,016	2,902,434	1,417,360	1,013.0	1,436
6/18/2024	22.77	48.8	2,079	2,840,050	1,386,896	1,013.0	1,405
6/19/2024	24.00	48.8	2,078	2,992,597	1,461,390	1,013.0	1,480
6/20/2024	24.00	48.8	2,050	2,951,939	1,441,535	1,013.0	1,460
6/21/2024	24.00	48.8	2,027	2,918,979	1,425,440	1,013.0	1,444
6/22/2024	24.00	48.8	2,045	2,944,953	1,438,124	1,013.0	1,457
6/23/2024	24.00	48.8	2,041	2,938,814	1,435,126	1,013.0	1,454
6/24/2024	24.00	48.8	2,032	2,925,452	1,428,601	1,013.0	1,447
6/25/2024	24.00	48.8	2,033	2,927,514	1,429,608	1,013.0	1,448
6/26/2024	15.43	48.8	2,073	1,919,734	937,473	1,013.0	950
6/27/2024	24.00	48.8	2,024	2,914,042	1,423,029	1,013.0	1,442
6/28/2024	24.00	48.8	1,952	2,811,015	1,372,717	1,013.0	1,391
6/29/2024	24.00	48.8	1,940	2,794,167	1,364,490	1,013.0	1,382
6/30/2024	24.00	48.8	1,945	2,801,367	1,368,006	1,013.0	1,386
<b>Totals/ Average:</b>	<b>708.50</b>	<b>48.8</b>	<b>2,032</b>	<b>86,357,446</b>	<b>42,171,363</b>	1,013.0	<b>42,720</b>
						<b>Maximum</b>	<b>1,503</b>

**NOTES:**

\*Starting April 11, 2024, Methane content determined from the February 14, 2024, 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<sub>4</sub>= methane

**APPENDIX M**  
**MONTHLY CONDENSATE INJECTION LOGS**

<b>KIRBY CANYON RECYCLING &amp; DISPOSAL FACILITY</b>			
<b>CONDENSATE INJECTION TOTALS:2024 Partial</b>			
<b>Title V Permit A1812, Condition Number 1437 Part 14</b>			
<b>Month</b>	<b>Average Condensate Injection Rate (gpm)</b>	<b>Monthly Condensate Injection Throughput (gallons)</b>	<b>Condensate Injection Throughput 12-Month Total (gallons)</b>
January-24	2.6	80,846	802,017
February-24	2.3	65,252	796,111
March-24	2.4	64,364	784,028
April-24	2.6	60,932	771,643
May-24	1.8	57,774	756,516
June-24	2.0	48,981	736,625
<b>NOTES:</b>			
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)

January-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/01/01	00:00:00	2024/01/01	07:20:00	440.0	2.6	1,135
2024/01/01	11:08:00	2024/01/01	21:32:00	624.0	2.6	1,613
2024/01/02	01:16:00	2024/01/02	13:08:00	712.0	2.6	1,848
2024/01/02	17:12:00	2024/01/02	23:58:00	408.0	2.6	1,069
2024/01/03	00:00:00	2024/01/03	06:00:00	360.0	2.6	923
2024/01/03	09:48:00	2024/01/03	20:42:00	654.0	2.6	1,688
2024/01/04	00:20:00	2024/01/04	12:50:00	750.0	2.6	1,937
2024/01/04	16:46:00	2024/01/04	23:58:00	434.0	2.6	1,128
2024/01/05	00:00:00	2024/01/05	04:14:00	254.0	2.6	649
2024/01/05	08:04:00	2024/01/05	18:06:00	602.0	2.6	1,539
2024/01/05	22:04:00	2024/01/05	23:58:00	116.0	2.6	300
2024/01/06	00:00:00	2024/01/06	10:24:00	624.0	2.5	1,579
2024/01/06	14:20:00	2024/01/06	23:58:00	580.0	2.5	1,471
2024/01/07	00:00:00	2024/01/07	02:40:00	160.0	2.5	397
2024/01/07	06:18:00	2024/01/07	17:06:00	648.0	2.5	1,622
2024/01/07	20:50:00	2024/01/07	23:58:00	190.0	2.6	489
2024/01/08	00:00:00	2024/01/08	08:36:00	516.0	2.5	1,299
2024/01/08	12:12:00	2024/01/08	23:58:00	708.0	2.5	1,764
2024/01/09	04:00:00	2024/01/09	15:50:00	710.0	2.5	1,753
2024/01/09	19:38:00	2024/01/09	23:58:00	262.0	2.5	654
2024/01/10	00:00:00	2024/01/10	08:58:00	538.0	2.5	1,318
2024/01/10	12:48:00	2024/01/10	23:34:00	646.0	2.5	1,606
2024/01/11	04:46:00	2024/01/11	16:58:00	732.0	2.9	2,152
2024/01/11	20:48:00	2024/01/11	23:58:00	192.0	3.1	600
2024/01/12	00:00:00	2024/01/12	03:44:00	224.0	3.1	690
2024/01/12	07:22:00	2024/01/12	19:34:00	732.0	2.5	1,794
2024/01/12	23:16:00	2024/01/12	23:58:00	44.0	2.5	109
2024/01/13	00:00:00	2024/01/13	14:00:00	840.0	2.4	2,034
2024/01/13	17:58:00	2024/01/13	23:58:00	362.0	2.5	891
2024/01/14	00:00:00	2024/01/14	08:24:00	504.0	2.4	1,223
2024/01/14	12:22:00	2024/01/14	23:58:00	698.0	2.5	1,714
2024/01/15	00:00:00	2024/01/15	01:40:00	100.0	2.4	241
2024/01/15	05:24:00	2024/01/15	18:20:00	776.0	2.5	1,908
2024/01/16	00:00:00	2024/01/16	12:24:00	744.0	2.5	1,829
2024/01/16	16:30:00	2024/01/16	23:58:00	450.0	2.5	1,127
2024/01/17	00:00:00	2024/01/17	05:10:00	310.0	2.5	766
2024/01/17	09:02:00	2024/01/17	20:26:00	684.0	2.5	1,704
2024/01/18	00:08:00	2024/01/18	12:48:00	760.0	2.5	1,909
2024/01/18	16:40:00	2024/01/18	23:58:00	440.0	2.5	1,114
2024/01/19	00:00:00	2024/01/19	05:14:00	314.0	2.5	785
2024/01/19	09:50:00	2024/01/19	13:50:00	240.0	2.5	601
2024/01/20	03:32:00	2024/01/20	08:08:00	276.0	2.5	693
2024/01/20	15:32:00	2024/01/20	20:14:00	282.0	2.5	717
2024/01/21	04:18:00	2024/01/21	08:52:00	274.0	2.5	691
2024/01/21	16:36:00	2024/01/21	21:20:00	284.0	2.5	723
2024/01/22	05:02:00	2024/01/22	08:08:00	186.0	2.6	491
2024/01/22	09:00:00	2024/01/22	16:14:00	434.0	3.1	1,366
2024/01/22	16:34:00	2024/01/22	16:54:00	20.0	3.0	60
2024/01/22	17:22:00	2024/01/22	23:58:00	398.0	3.1	1,247

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

CONDENSATE INJECTION (A-12 Flare)

January-24

2024/01/23	00:00:00	2024/01/23	05:30:00	330.0	3.1	1,034
2024/01/23	09:20:00	2024/01/23	11:10:00	110.0	3.2	348
2024/01/23	12:06:00	2024/01/23	17:54:00	348.0	3.1	1,089
2024/01/23	22:02:00	2024/01/23	23:58:00	118.0	3.2	378
2024/01/24	00:00:00	2024/01/24	04:22:00	262.0	3.2	833
2024/01/24	08:16:00	2024/01/24	14:10:00	354.0	3.2	1,120
2024/01/24	18:18:00	2024/01/24	23:58:00	340.0	3.2	1,082
2024/01/25	04:02:00	2024/01/25	10:06:00	364.0	3.2	1,165
2024/01/25	14:08:00	2024/01/25	19:20:00	312.0	3.2	987
2024/01/25	23:22:00	2024/01/25	23:58:00	38.0	3.2	122
2024/01/26	00:00:00	2024/01/26	05:32:00	332.0	3.2	1,062
2024/01/26	09:36:00	2024/01/26	15:10:00	334.0	3.2	1,064
2024/01/26	19:26:00	2024/01/26	23:58:00	274.0	3.2	883
2024/01/27	00:00:00	2024/01/27	00:52:00	52.0	3.1	164
2024/01/27	04:46:00	2024/01/27	10:40:00	354.0	3.2	1,136
2024/01/27	14:40:00	2024/01/27	19:50:00	310.0	3.2	982
2024/01/28	00:02:00	2024/01/28	05:48:00	346.0	3.2	1,107
2024/01/28	09:38:00	2024/01/28	15:30:00	352.0	3.2	1,123
2024/01/28	20:32:00	2024/01/28	23:58:00	208.0	3.2	671
2024/01/29	00:00:00	2024/01/29	01:44:00	104.0	3.2	328
2024/01/29	05:48:00	2024/01/29	16:40:00	652.0	2.5	1,638
2024/01/29	19:58:00	2024/01/29	23:58:00	242.0	2.0	477
2024/01/30	00:00:00	2024/01/30	16:02:00	962.0	1.9	1,864
2024/01/30	20:40:00	2024/01/30	23:58:00	200.0	2.0	402
2024/01/31	00:00:00	2024/01/31	23:58:00	1,440.0	2.0	2,828
<b>Totals</b>				<b>30,974</b>	<b>2.6</b>	<b>80,846</b>
				<b>Maximum GPM</b>	<b>3.2</b>	

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)

February-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/02/01	00:00:00	2024/02/01	23:38:00	1,418.0	1.9	2,749
2024/02/02	03:36:00	2024/02/02	08:52:00	316.0	2.0	626
2024/02/02	09:16:00	2024/02/02	12:08:00	172.0	2.0	338
2024/02/02	13:54:00	2024/02/02	20:52:00	418.0	3.0	1,235
2024/02/03	00:50:00	2024/02/03	07:46:00	416.0	3.1	1,273
2024/02/03	11:58:00	2024/02/03	18:14:00	376.0	3.1	1,157
2024/02/03	22:04:00	2024/02/03	23:58:00	116.0	3.1	363
2024/02/04	00:00:00	2024/02/04	04:34:00	274.0	3.1	852
2024/02/04	09:50:00	2024/02/04	13:28:00	218.0	3.1	679
2024/02/04	17:50:00	2024/02/04	23:58:00	370.0	3.1	1,148
2024/02/05	04:20:00	2024/02/05	10:38:00	378.0	3.1	1,158
2024/02/05	14:54:00	2024/02/05	20:34:00	340.0	3.1	1,062
2024/02/06	00:40:00	2024/02/06	06:34:00	354.0	3.1	1,098
2024/02/06	10:42:00	2024/02/06	16:30:00	348.0	3.1	1,077
2024/02/06	20:40:00	2024/02/06	23:58:00	200.0	3.1	626
2024/02/07	00:00:00	2024/02/07	02:58:00	178.0	3.1	548
2024/02/07	07:08:00	2024/02/07	13:22:00	374.0	3.1	1,163
2024/02/07	17:26:00	2024/02/07	23:50:00	384.0	3.1	1,187
2024/02/08	03:42:00	2024/02/08	07:22:00	220.0	3.1	679
2024/02/08	07:38:00	2024/02/08	20:54:00	796.0	2.0	1,631
2024/02/09	00:50:00	2024/02/09	23:58:00	1,390.0	2.0	2,829
2024/02/10	00:00:00	2024/02/10	01:36:00	96.0	2.0	190
2024/02/10	05:42:00	2024/02/10	23:58:00	1,098.0	2.0	2,234
2024/02/11	00:00:00	2024/02/11	03:56:00	236.0	2.0	472
2024/02/11	07:58:00	2024/02/11	23:58:00	962.0	2.0	1,964
2024/02/12	00:00:00	2024/02/12	05:14:00	314.0	2.0	629
2024/02/13	05:12:00	2024/02/13	11:06:00	354.0	1.7	604
2024/02/13	11:38:00	2024/02/13	23:58:00	742.0	0.8	617
2024/02/14	00:00:00	2024/02/14	12:46:00	766.0	0.8	628
2024/02/14	15:54:00	2024/02/14	23:58:00	486.0	3.0	1,465
2024/02/15	00:00:00	2024/02/15	04:36:00	276.0	3.0	832
2024/02/15	08:48:00	2024/02/15	15:34:00	406.0	2.5	998
2024/02/15	20:22:00	2024/02/15	23:58:00	218.0	2.6	566
2024/02/16	00:00:00	2024/02/16	02:32:00	152.0	2.6	389
2024/02/16	06:40:00	2024/02/16	12:34:00	354.0	2.6	919
2024/02/16	16:50:00	2024/02/16	22:28:00	338.0	2.6	881
2024/02/17	02:32:00	2024/02/17	08:46:00	374.0	2.6	979
2024/02/17	12:48:00	2024/02/17	19:04:00	376.0	2.6	974
2024/02/17	23:06:00	2024/02/17	23:58:00	54.0	2.6	143
2024/02/18	00:00:00	2024/02/18	05:24:00	324.0	2.6	843
2024/02/18	09:26:00	2024/02/18	15:12:00	346.0	2.6	897
2024/02/18	19:24:00	2024/02/18	23:58:00	276.0	2.6	720
2024/02/19	00:00:00	2024/02/19	01:16:00	76.0	2.6	195
2024/02/19	05:14:00	2024/02/19	12:32:00	438.0	2.4	1,056
2024/02/19	16:44:00	2024/02/19	23:58:00	436.0	2.3	1,000
2024/02/20	00:00:00	2024/02/20	00:46:00	46.0	2.2	103
2024/02/20	04:44:00	2024/02/20	12:50:00	486.0	2.3	1,122
2024/02/20	17:04:00	2024/02/20	23:58:00	416.0	2.3	977
2024/02/21	00:00:00	2024/02/21	01:42:00	102.0	2.3	236
2024/02/21	05:40:00	2024/02/21	14:50:00	550.0	2.3	1,269
2024/02/21	19:36:00	2024/02/21	23:58:00	264.0	2.3	618

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

CONDENSATE INJECTION (A-12 Flare)

February-24

2024/02/22	00:00:00	2024/02/22	03:34:00	214.0	2.3	495
2024/02/22	07:30:00	2024/02/22	15:38:00	488.0	2.3	1,126
2024/02/22	20:32:00	2024/02/22	23:58:00	208.0	2.4	489
2024/02/23	00:00:00	2024/02/23	04:36:00	276.0	2.3	639
2024/02/23	08:34:00	2024/02/23	16:46:00	492.0	2.3	1,136
2024/02/23	21:30:00	2024/02/23	23:58:00	150.0	2.4	353
2024/02/24	00:00:00	2024/02/24	05:56:00	356.0	2.3	825
2024/02/24	09:58:00	2024/02/24	17:44:00	466.0	2.3	1,072
2024/02/24	22:46:00	2024/02/24	23:58:00	74.0	2.4	174
2024/02/25	00:00:00	2024/02/25	07:10:00	430.0	2.3	999
2024/02/25	11:24:00	2024/02/25	18:36:00	432.0	2.3	1,001
2024/02/25	23:10:00	2024/02/25	23:58:00	50.0	2.4	120
2024/02/26	00:00:00	2024/02/26	07:08:00	428.0	2.4	1,007
2024/02/26	11:36:00	2024/02/26	18:42:00	426.0	2.3	995
2024/02/26	23:04:00	2024/02/26	23:58:00	56.0	2.4	134
2024/02/27	00:00:00	2024/02/27	08:00:00	480.0	2.4	1,137
2024/02/27	12:22:00	2024/02/27	19:34:00	432.0	2.3	1,011
2024/02/27	23:34:00	2024/02/27	23:58:00	26.0	2.5	64
2024/02/28	00:00:00	2024/02/28	07:54:00	474.0	2.4	1,133
2024/02/28	12:02:00	2024/02/28	18:54:00	412.0	2.4	970
2024/02/28	23:16:00	2024/02/28	23:58:00	44.0	2.4	107
2024/02/29	00:00:00	2024/02/29	07:32:00	452.0	2.4	1,073
2024/02/29	11:40:00	2024/02/29	18:34:00	414.0	2.4	975
2024/02/29	22:30:00	2024/02/29	23:58:00	90.0	2.4	217
<b>Totals</b>				<b>27,788</b>	<b>2.3</b>	<b>65,252</b>
				<b>Maximum GPM</b>	<b>3.1</b>	

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)

March-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/03/01	00:00:00	2024/03/01	06:54:00	414.0	2.4	986
2024/03/01	10:54:00	2024/03/01	19:12:00	498.0	2.4	1,184
2024/03/01	23:04:00	2024/03/01	23:58:00	56.0	2.4	135
2024/03/02	00:00:00	2024/03/02	07:44:00	464.0	2.4	1,106
2024/03/02	11:46:00	2024/03/02	20:06:00	500.0	2.4	1,188
2024/03/02	23:58:00	2024/03/02	23:58:00	2.0	2.2	4
2024/03/03	00:00:00	2024/03/03	08:46:00	526.0	2.4	1,263
2024/03/03	12:58:00	2024/03/03	20:26:00	448.0	2.4	1,073
2024/03/04	00:08:00	2024/03/04	08:34:00	506.0	2.4	1,208
2024/03/04	12:50:00	2024/03/04	20:04:00	434.0	2.4	1,026
2024/03/05	00:00:00	2024/03/05	08:32:00	512.0	2.4	1,230
2024/03/05	12:48:00	2024/03/05	20:10:00	442.0	2.4	1,051
2024/03/06	00:16:00	2024/03/06	08:20:00	484.0	2.4	1,159
2024/03/06	12:38:00	2024/03/06	15:12:00	154.0	2.4	366
2024/03/06	16:50:00	2024/03/06	22:26:00	336.0	2.4	800
2024/03/07	02:40:00	2024/03/07	07:20:00	280.0	2.4	669
2024/03/07	09:12:00	2024/03/07	13:16:00	244.0	2.4	576
2024/03/07	17:50:00	2024/03/07	23:58:00	370.0	2.4	881
2024/03/08	00:00:00	2024/03/08	00:50:00	50.0	2.3	116
2024/03/08	04:56:00	2024/03/08	11:44:00	408.0	2.4	974
2024/03/08	15:52:00	2024/03/08	21:14:00	322.0	2.4	773
2024/03/09	01:32:00	2024/03/09	08:36:00	424.0	2.4	1,024
2024/03/09	13:08:00	2024/03/09	19:14:00	366.0	2.4	877
2024/03/09	23:50:00	2024/03/09	23:58:00	10.0	2.5	25
2024/03/10	00:00:00	2024/03/10	01:58:00	120.0	2.5	295
2024/03/10	12:12:00	2024/03/10	18:50:00	398.0	2.4	939
2024/03/10	23:10:00	2024/03/10	23:58:00	50.0	2.5	123
2024/03/11	00:00:00	2024/03/11	06:10:00	370.0	2.4	892
2024/03/11	10:24:00	2024/03/11	17:12:00	408.0	2.4	975
2024/03/11	22:08:00	2024/03/11	23:58:00	112.0	2.5	276
2024/03/12	00:00:00	2024/03/12	05:22:00	322.0	2.4	784
2024/03/12	09:18:00	2024/03/12	16:44:00	446.0	2.4	1,090
2024/03/12	21:22:00	2024/03/12	23:58:00	158.0	2.5	389
2024/03/13	00:00:00	2024/03/13	05:00:00	300.0	2.4	730
2024/03/13	09:02:00	2024/03/13	15:42:00	400.0	2.4	972
2024/03/13	20:24:00	2024/03/13	23:58:00	216.0	2.5	529
2024/03/14	00:00:00	2024/03/14	03:10:00	190.0	2.4	461
2024/03/14	07:18:00	2024/03/14	14:24:00	426.0	2.4	1,037
2024/03/14	19:02:00	2024/03/14	23:58:00	298.0	2.5	732
2024/03/15	00:00:00	2024/03/15	00:18:00	18.0	2.3	41
2024/03/15	04:24:00	2024/03/15	11:40:00	436.0	2.4	1,051
2024/03/15	15:50:00	2024/03/15	21:02:00	312.0	2.5	765
2024/03/16	01:50:00	2024/03/16	08:48:00	418.0	2.4	1,016
2024/03/16	13:12:00	2024/03/16	19:22:00	370.0	2.4	892
2024/03/17	00:26:00	2024/03/17	07:16:00	410.0	2.4	990
2024/03/17	11:36:00	2024/03/17	18:16:00	400.0	2.4	950
2024/03/17	23:46:00	2024/03/17	23:58:00	14.0	2.5	34
2024/03/18	00:00:00	2024/03/18	06:48:00	408.0	2.4	980
2024/03/18	10:58:00	2024/03/18	17:40:00	402.0	2.4	954

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY**

CONDENSATE INJECTION (A-12 Flare)

March-24

2024/03/18	23:42:00	2024/03/18	23:58:00	18.0	2.4	44
2024/03/19	00:00:00	2024/03/19	06:02:00	362.0	2.4	864
2024/03/19	10:34:00	2024/03/19	17:02:00	388.0	2.4	924
2024/03/19	22:44:00	2024/03/19	23:58:00	76.0	2.5	187
2024/03/20	00:00:00	2024/03/20	05:08:00	308.0	2.4	739
2024/03/20	09:34:00	2024/03/20	16:22:00	408.0	2.4	981
2024/03/20	22:20:00	2024/03/20	23:58:00	100.0	2.5	247
2024/03/21	00:00:00	2024/03/21	04:34:00	274.0	2.4	659
2024/03/21	08:46:00	2024/03/21	15:22:00	396.0	2.4	943
2024/03/21	21:12:00	2024/03/21	23:58:00	168.0	2.5	417
2024/03/22	00:00:00	2024/03/22	02:52:00	172.0	2.4	416
2024/03/22	07:18:00	2024/03/22	13:58:00	400.0	2.4	964
2024/03/22	19:02:00	2024/03/22	23:58:00	298.0	2.4	727
2024/03/23	00:00:00	2024/03/23	01:02:00	62.0	2.4	147
2024/03/23	05:12:00	2024/03/23	11:42:00	390.0	2.4	941
2024/03/23	16:10:00	2024/03/23	22:08:00	358.0	2.4	871
2024/03/24	02:18:00	2024/03/24	09:10:00	412.0	2.4	994
2024/03/24	13:34:00	2024/03/24	19:38:00	364.0	2.4	867
2024/03/25	00:06:00	2024/03/25	06:56:00	410.0	2.4	995
2024/03/25	11:24:00	2024/03/25	18:14:00	410.0	2.4	979
2024/03/25	23:22:00	2024/03/25	23:58:00	38.0	2.5	95
2024/03/26	00:00:00	2024/03/26	05:48:00	348.0	2.4	848
2024/03/26	10:08:00	2024/03/26	16:32:00	384.0	2.4	934
2024/03/26	21:48:00	2024/03/26	23:58:00	132.0	2.5	327
2024/03/27	00:00:00	2024/03/27	04:22:00	262.0	2.4	630
2024/03/27	08:32:00	2024/03/27	15:10:00	398.0	2.4	960
2024/03/27	20:02:00	2024/03/27	23:58:00	238.0	2.5	587
2024/03/28	00:00:00	2024/03/28	02:44:00	164.0	2.4	399
2024/03/28	06:56:00	2024/03/28	13:30:00	394.0	2.4	962
2024/03/28	17:40:00	2024/03/28	23:02:00	322.0	2.5	811
2024/03/29	03:02:00	2024/03/29	09:52:00	410.0	2.5	1,031
2024/03/29	14:12:00	2024/03/29	21:30:00	438.0	2.5	1,109
2024/03/30	01:40:00	2024/03/30	08:30:00	410.0	2.6	1,046
2024/03/30	12:54:00	2024/03/30	17:14:00	260.0	2.5	656
2024/03/30	18:50:00	2024/03/30	22:12:00	202.0	2.5	509
2024/03/31	02:08:00	2024/03/31	09:14:00	426.0	2.5	1,068
2024/03/31	13:26:00	2024/03/31	19:16:00	350.0	2.6	893
<b>Totals</b>				<b>26,602</b>	<b>2.4</b>	<b>64,364</b>
				<b>Maximum GPM</b>	<b>2.6</b>	

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)

April-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/04/01	00:10:00	2024/04/01	06:38:00	388.0	2.6	994
2024/04/01	10:58:00	2024/04/01	17:46:00	408.0	2.5	1,021
2024/04/01	23:16:00	2024/04/01	23:58:00	44.0	2.6	115
2024/04/02	00:00:00	2024/04/02	05:56:00	356.0	2.5	900
2024/04/02	10:20:00	2024/04/02	17:04:00	404.0	2.5	1,023
2024/04/02	22:56:00	2024/04/02	23:58:00	64.0	2.6	169
2024/04/03	00:00:00	2024/04/03	05:18:00	318.0	2.5	805
2024/04/03	09:34:00	2024/04/03	16:10:00	396.0	2.5	997
2024/04/03	21:32:00	2024/04/03	23:58:00	148.0	2.6	388
2024/04/04	00:00:00	2024/04/04	03:44:00	224.0	2.5	566
2024/04/04	07:46:00	2024/04/04	14:34:00	408.0	2.5	1,029
2024/04/04	19:10:00	2024/04/04	23:58:00	290.0	2.5	735
2024/04/05	00:00:00	2024/04/05	02:44:00	164.0	2.5	408
2024/04/05	06:54:00	2024/04/05	13:02:00	368.0	2.5	929
2024/04/05	17:20:00	2024/04/05	23:20:00	360.0	2.6	921
2024/04/06	03:28:00	2024/04/06	10:00:00	392.0	2.5	997
2024/04/06	14:18:00	2024/04/06	19:54:00	336.0	2.6	874
2024/04/07	00:28:00	2024/04/07	07:14:00	406.0	2.6	1,051
2024/04/07	11:32:00	2024/04/07	17:50:00	378.0	2.6	968
2024/04/07	21:52:00	2024/04/07	23:58:00	128.0	2.6	330
2024/04/08	00:00:00	2024/04/08	03:00:00	180.0	2.5	454
2024/04/08	07:08:00	2024/04/08	13:44:00	396.0	2.5	996
2024/04/08	18:00:00	2024/04/08	22:42:00	282.0	2.6	743
2024/04/09	03:06:00	2024/04/09	09:14:00	368.0	2.6	954
2024/04/09	09:40:00	2024/04/09	11:18:00	98.0	2.5	248
2024/04/09	15:22:00	2024/04/09	15:42:00	20.0	2.7	53
2024/04/09	15:58:00	2024/04/09	20:44:00	286.0	2.6	743
2024/04/10	01:48:00	2024/04/10	08:32:00	404.0	2.6	1,033
2024/04/10	12:38:00	2024/04/10	18:14:00	336.0	2.6	878
2024/04/11	00:26:00	2024/04/11	06:30:00	364.0	2.6	947
2024/04/11	10:22:00	2024/04/11	11:42:00	80.0	2.6	207
2024/04/11	11:58:00	2024/04/11	16:50:00	292.0	2.6	759
2024/04/11	23:16:00	2024/04/11	23:58:00	44.0	2.6	116
2024/04/12	00:00:00	2024/04/12	05:38:00	338.0	2.6	864
2024/04/12	09:46:00	2024/04/12	15:48:00	362.0	2.6	933
2024/04/12	21:14:00	2024/04/12	23:58:00	166.0	2.6	435
2024/04/13	00:00:00	2024/04/13	03:20:00	200.0	2.6	512
2024/04/13	07:28:00	2024/04/13	14:20:00	412.0	2.5	1,049
2024/04/13	18:36:00	2024/04/13	23:58:00	324.0	2.6	837
2024/04/14	00:00:00	2024/04/14	01:36:00	96.0	2.5	243
2024/04/14	05:42:00	2024/04/14	12:04:00	382.0	2.6	978
2024/04/14	16:14:00	2024/04/14	21:20:00	306.0	2.6	810
2024/04/15	01:46:00	2024/04/15	08:22:00	396.0	2.6	1,033
2024/04/15	12:56:00	2024/04/15	18:32:00	336.0	2.6	876
2024/04/16	00:06:00	2024/04/16	06:14:00	368.0	2.6	952
2024/04/16	10:54:00	2024/04/16	17:54:00	420.0	2.6	1,093
2024/04/17	00:04:00	2024/04/17	05:46:00	342.0	2.6	895
2024/04/17	10:08:00	2024/04/17	16:22:00	374.0	2.6	969
2024/04/17	22:54:00	2024/04/17	23:58:00	66.0	2.7	176

# KIRBY CANYON RECYCLING & DISPOSAL FACILITY

## CONDENSATE INJECTION (A-12 Flare)

April-24

2024/04/18	00:00:00	2024/04/18	04:06:00	246.0	2.6	642
2024/04/18	08:52:00	2024/04/18	14:56:00	364.0	2.6	950
2024/04/18	22:08:00	2024/04/18	23:58:00	112.0	2.7	300
2024/04/19	00:00:00	2024/04/19	03:28:00	208.0	2.6	541
2024/04/19	08:06:00	2024/04/19	13:58:00	352.0	2.5	892
2024/04/19	18:58:00	2024/04/19	22:44:00	226.0	2.7	608
2024/04/20	03:40:00	2024/04/20	09:42:00	362.0	2.6	931
2024/04/20	14:30:00	2024/04/20	19:02:00	272.0	2.7	737
2024/04/21	01:08:00	2024/04/21	07:10:00	362.0	2.6	931
2024/04/21	11:46:00	2024/04/21	17:22:00	336.0	2.6	873
2024/04/22	00:20:00	2024/04/22	05:40:00	320.0	2.6	844
2024/04/22	10:18:00	2024/04/22	15:58:00	340.0	2.6	891
2024/04/22	22:36:00	2024/04/22	23:58:00	84.0	2.7	228
2024/04/23	00:00:00	2024/04/23	04:00:00	240.0	2.6	627
2024/04/23	08:38:00	2024/04/23	14:16:00	338.0	2.6	863
2024/04/23	19:18:00	2024/04/23	23:54:00	276.0	2.6	724
2024/04/24	04:40:00	2024/04/24	10:36:00	356.0	2.6	918
2024/04/24	15:12:00	2024/04/24	20:00:00	288.0	2.6	761
2024/04/25	01:12:00	2024/04/25	07:22:00	370.0	2.6	952
2024/04/25	12:08:00	2024/04/25	17:20:00	312.0	2.6	821
2024/04/25	23:00:00	2024/04/25	23:58:00	60.0	2.7	159
2024/04/26	00:00:00	2024/04/26	05:08:00	308.0	2.6	793
2024/04/26	09:50:00	2024/04/26	15:48:00	358.0	2.6	922
2024/04/26	21:02:00	2024/04/26	23:58:00	178.0	2.6	471
2024/04/27	00:00:00	2024/04/27	02:44:00	164.0	2.6	420
2024/04/27	07:20:00	2024/04/27	13:56:00	396.0	2.6	1,020
2024/04/27	20:02:00	2024/04/27	23:58:00	238.0	2.7	633
2024/04/28	00:00:00	2024/04/28	00:32:00	32.0	2.5	81
2024/04/28	04:58:00	2024/04/28	10:54:00	356.0	2.6	917
2024/04/28	15:32:00	2024/04/28	19:48:00	256.0	2.7	685
2024/04/29	01:26:00	2024/04/29	07:16:00	350.0	2.6	910
2024/04/29	12:00:00	2024/04/29	17:30:00	330.0	2.6	873
2024/04/30	00:02:00	2024/04/30	06:06:00	364.0	2.6	949
2024/04/30	10:38:00	2024/04/30	16:22:00	344.0	2.6	904
2024/04/30	23:02:00	2024/04/30	23:58:00	58.0	2.7	156
<b>Totals</b>				<b>23,574</b>	<b>2.6</b>	<b>60,932</b>
				<b>Maximum GPM</b>	<b>2.7</b>	

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)

April-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/05/01	00:00:00	2024/05/01	04:46:00	286.0	2.6	743
2024/05/01	09:22:00	2024/05/01	15:32:00	370.0	2.6	959
2024/05/01	22:20:00	2024/05/01	23:58:00	100.0	2.7	268
2024/05/02	00:00:00	2024/05/02	03:52:00	232.0	2.6	607
2024/05/02	08:40:00	2024/05/02	14:52:00	372.0	2.6	962
2024/05/02	21:38:00	2024/05/02	23:58:00	142.0	2.7	385
2024/05/03	00:00:00	2024/05/03	02:26:00	146.0	2.7	387
2024/05/03	07:02:00	2024/05/03	13:04:00	362.0	2.6	935
2024/05/03	18:38:00	2024/05/03	22:20:00	222.0	2.7	597
2024/05/04	03:28:00	2024/05/04	09:08:00	340.0	2.6	890
2024/05/04	13:52:00	2024/05/04	19:42:00	350.0	2.6	920
2024/05/05	00:26:00	2024/05/05	06:42:00	376.0	2.6	990
2024/05/05	11:22:00	2024/05/05	17:32:00	370.0	2.6	954
2024/05/05	23:20:00	2024/05/05	23:58:00	40.0	2.7	108
2024/05/06	00:00:00	2024/05/06	05:42:00	342.0	2.6	890
2024/05/06	10:06:00	2024/05/06	16:32:00	386.0	2.6	1,005
2024/05/06	22:56:00	2024/05/06	23:58:00	64.0	2.7	173
2024/05/07	00:00:00	2024/05/07	04:36:00	276.0	2.6	722
2024/05/07	09:22:00	2024/05/07	15:36:00	374.0	2.6	977
2024/05/07	21:38:00	2024/05/07	23:58:00	142.0	2.7	384
2024/05/08	00:00:00	2024/05/08	02:34:00	154.0	2.6	407
2024/05/08	06:58:00	2024/05/08	13:34:00	396.0	2.6	1,039
2024/05/08	18:42:00	2024/05/08	22:42:00	240.0	2.7	643
2024/05/09	03:28:00	2024/05/09	10:20:00	412.0	2.6	1,063
2024/05/09	13:54:00	2024/05/09	17:58:00	244.0	2.7	664
2024/05/10	01:36:00	2024/05/10	07:30:00	354.0	2.6	935
2024/05/10	11:56:00	2024/05/10	17:02:00	306.0	2.7	819
2024/05/11	00:32:00	2024/05/11	06:22:00	350.0	2.7	928
2024/05/11	10:56:00	2024/05/11	16:36:00	340.0	2.7	904
2024/05/12	00:24:00	2024/05/12	06:04:00	340.0	2.6	900
2024/05/12	10:30:00	2024/05/12	16:14:00	344.0	2.6	903
2024/05/12	23:34:00	2024/05/12	23:58:00	26.0	2.7	71
2024/05/13	00:00:00	2024/05/13	05:04:00	304.0	2.6	805
2024/05/13	09:26:00	2024/05/13	16:04:00	398.0	2.6	1,034
2024/05/14	00:04:00	2024/05/14	05:58:00	354.0	2.6	933
2024/05/14	10:16:00	2024/05/14	23:46:00	810.0	1.4	1,171
2024/05/15	04:20:00	2024/05/15	23:58:00	1,180.0	1.4	1,677
2024/05/16	00:00:00	2024/05/16	17:50:00	1,070.0	1.5	1,561
2024/05/17	00:14:00	2024/05/17	23:58:00	1,426.0	1.5	2,102
2024/05/18	00:00:00	2024/05/18	19:24:00	1,164.0	1.5	1,717
2024/05/19	00:54:00	2024/05/19	23:58:00	1,386.0	1.5	2,028
2024/05/20	00:00:00	2024/05/20	19:08:00	1,148.0	1.5	1,665
2024/05/21	01:12:00	2024/05/21	23:58:00	1,368.0	1.5	1,987
2024/05/22	00:00:00	2024/05/22	18:02:00	1,082.0	1.5	1,582
2024/05/23	00:50:00	2024/05/23	23:58:00	1,390.0	1.5	2,041
2024/05/24	00:00:00	2024/05/24	19:04:00	1,144.0	1.5	1,678
2024/05/25	00:44:00	2024/05/25	23:58:00	1,396.0	1.5	2,134
2024/05/26	00:00:00	2024/05/26	18:54:00	1,134.0	1.5	1,664
2024/05/27	01:28:00	2024/05/27	23:58:00	1,352.0	1.5	2,054
2024/05/28	00:00:00	2024/05/28	17:06:00	1,026.0	1.5	1,522
2024/05/29	00:18:00	2024/05/29	23:58:00	1,422.0	1.5	2,160

# KIRBY CANYON RECYCLING & DISPOSAL FACILITY

## CONDENSATE INJECTION (A-12 Flare)

April-24

2024/05/30	00:00:00	2024/05/30	02:40:00	160.0	1.5	238
2024/05/30	07:04:00	2024/05/30	22:38:00	934.0	1.4	1,272
2024/05/31	04:00:00	2024/05/31	11:46:00	466.0	1.5	700
2024/05/31	14:06:00	2024/05/31	23:58:00	594.0	1.5	914
<b>Totals</b>				<b>31,506</b>	<b>1.8</b>	<b>57,774</b>
				<b>Maximum GPM</b>	<b>2.7</b>	

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)

June-24

Start Date	Start Time	End Date	End Time	Total Injection Time (min.)	Average GPM	Total Gallons
2024/06/01	00:00:00	2024/06/01	16:46:00	1,006.0	1.5	1,508
2024/06/02	00:08:00	2024/06/02	23:58:00	1,432.0	1.5	2,154
2024/06/03	00:00:00	2024/06/03	05:18:00	318.0	1.5	476
2024/06/03	09:44:00	2024/06/03	16:28:00	404.0	1.5	611
2024/06/03	18:14:00	2024/06/03	23:58:00	346.0	2.1	725
2024/06/04	00:00:00	2024/06/04	05:36:00	336.0	2.1	697
2024/06/04	09:48:00	2024/06/04	18:34:00	526.0	2.1	1,118
2024/06/05	01:30:00	2024/06/05	13:10:00	700.0	2.1	1,467
2024/06/05	23:30:00	2024/06/05	23:58:00	30.0	2.3	68
2024/06/06	00:00:00	2024/06/06	06:08:00	368.0	2.2	795
2024/06/06	11:10:00	2024/06/06	18:04:00	414.0	2.2	921
2024/06/07	02:22:00	2024/06/07	12:38:00	616.0	2.1	1,317
2024/06/07	18:44:00	2024/06/07	23:58:00	316.0	2.2	705
2024/06/08	00:00:00	2024/06/08	00:40:00	40.0	2.1	85
2024/06/08	05:20:00	2024/06/08	15:22:00	602.0	2.1	1,283
2024/06/08	23:04:00	2024/06/08	23:58:00	56.0	2.2	123
2024/06/09	00:00:00	2024/06/09	09:14:00	554.0	2.1	1,165
2024/06/09	13:58:00	2024/06/09	19:36:00	338.0	2.2	741
2024/06/10	02:14:00	2024/06/10	13:50:00	696.0	2.1	1,454
2024/06/10	22:26:00	2024/06/10	23:58:00	94.0	2.2	206
2024/06/11	00:00:00	2024/06/11	07:26:00	446.0	2.1	939
2024/06/11	12:02:00	2024/06/11	18:10:00	368.0	2.1	769
2024/06/12	03:18:00	2024/06/12	13:08:00	590.0	2.0	1,188
2024/06/12	19:26:00	2024/06/12	23:58:00	274.0	2.0	560
2024/06/13	00:00:00	2024/06/13	03:14:00	194.0	2.0	383
2024/06/13	07:50:00	2024/06/13	17:50:00	600.0	2.0	1,183
2024/06/14	00:54:00	2024/06/14	14:44:00	830.0	1.9	1,614
2024/06/14	23:20:00	2024/06/14	23:58:00	40.0	2.1	83
2024/06/15	00:00:00	2024/06/15	11:00:00	660.0	2.0	1,293
2024/06/15	16:10:00	2024/06/15	21:48:00	338.0	2.0	680
2024/06/16	03:20:00	2024/06/16	16:46:00	806.0	1.9	1,515
2024/06/17	00:22:00	2024/06/17	15:42:00	920.0	1.9	1,710
2024/06/17	23:28:00	2024/06/17	23:58:00	32.0	2.0	62
2024/06/18	00:00:00	2024/06/18	14:50:00	890.0	1.8	1,634
2024/06/18	22:18:00	2024/06/18	23:58:00	102.0	1.9	190
2024/06/19	00:00:00	2024/06/19	16:30:00	990.0	1.8	1,762
2024/06/20	00:18:00	2024/06/20	17:24:00	1,026.0	1.8	1,867
2024/06/21	01:18:00	2024/06/21	09:46:00	508.0	2.3	1,149
2024/06/21	14:22:00	2024/06/21	19:14:00	292.0	2.3	666
2024/06/22	02:54:00	2024/06/22	11:42:00	528.0	2.2	1,171
2024/06/22	19:18:00	2024/06/22	22:20:00	182.0	2.7	486
2024/06/23	04:52:00	2024/06/23	10:58:00	366.0	2.6	939
2024/06/23	17:38:00	2024/06/23	20:48:00	190.0	2.7	504
2024/06/24	04:44:00	2024/06/24	14:34:00	590.0	2.0	1,189
2024/06/25	01:00:00	2024/06/25	11:06:00	606.0	1.9	1,141
2024/06/25	19:00:00	2024/06/25	23:38:00	278.0	2.1	589
2024/06/26	05:16:00	2024/06/26	08:26:00	190.0	2.0	387
2024/06/26	17:06:00	2024/06/26	22:02:00	296.0	2.6	756
2024/06/27	05:00:00	2024/06/27	06:54:00	114.0	2.5	282
2024/06/27	06:56:00	2024/06/27	14:02:00	426.0	1.8	785

**KIRBY CANYON RECYCLING & DISPOSAL FACILITY****CONDENSATE INJECTION (A-12 Flare)**

June-24

2024/06/28	00:50:00	2024/06/28	08:24:00	454.0	1.9	854
2024/06/28	14:00:00	2024/06/28	19:08:00	308.0	2.0	603
2024/06/29	05:02:00	2024/06/29	14:22:00	560.0	1.8	1,034
2024/06/30	01:24:00	2024/06/30	08:56:00	452.0	1.9	841
2024/06/30	14:38:00	2024/06/30	19:24:00	286.0	1.9	555
<b>Totals</b>				<b>24,924</b>	<b>2.0</b>	<b>48,981</b>
				<b>Maximum GPM</b>	<b>2.7</b>	

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

April 4, 2024

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

**Re: First Quarter 2024 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 First Quarter 2024 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.

## Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles Date: 2/27/24  
 Instrument: Gem 5000 Serial #: G502468  
 Atmospheric Temperature (Deg F): 51  
 Barometric Pressure: 30.07 Inch of HG  
 Wind Speed: 7 MPH Wind Direction: NW  
 Weather Condition: Sunny

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:04am	0	-0.05	Ok	Ok	
KIRBP01B	8:06am	0	-0.05	Ok	Ok	
KIRBP02A	8:09am	0	-0.03	Ok	Ok	
KIRBP02B	8:12am	0	-0.04	Ok	Ok	
KIRBP03A	8:17am	0	-0.06	Ok	Ok	
KIRBP03B	8:20am	0	-0.09	Ok	Ok	
KIRBP04A	8:25am	0	-0.06	Ok	Ok	
KIRBP04B	8:28am	0	0.05	Ok	Ok	
KIRBP05A	8:32am	0	-0.06	Ok	Ok	
KIRBP05B	8:35am	0	-0.09	Ok	Ok	
KIRBP06A	8:39am	0	-0.08	Ok	Ok	
KIRBP06B	8:42am	0	-0.09	Ok	Ok	
KIRBP07A	8:46am	0	0.03	Ok	Ok	
KIRBP07B	8:49am	0	-0.06	Ok	Ok	
KIRBP08A	8:53am	0	-0.03	Ok	Ok	
KIRBP08B	8:56am	0	0.01	Ok	Ok	

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP09A	9:04am	0	-0.09	Ok	Ok	
KIRBP09B	9:07am	0	-0.10	Ok	Ok	
KIRBP10A	9:14am	0	-0.05	Ok	Ok	
KIRBP10B	9:17am	0	-0.04	Ok	Ok	
KIRBP011A	9:21am	0	-0.09	Ok	Ok	
KIRBP011B	9:23am	0	-0.10	Ok	Ok	
KIRBP12A	7:57am	0	-0.04	Ok	Ok	
KIRBP12B	7:59am	0	-0.04	Ok	Ok	
KIRBP14A	7:51am	0	-0.07	Ok	Ok	
KIRBP14B	7:53am	0	-0.07	Ok	Ok	
KIRBP15	7:45am	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<sub>4</sub> = 12,500 ppm CH<sub>4</sub>

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

## STRUCTURE FID MONITORING DATA

**Analyst:** Tino Robles  
**Instrument:** TVA

**Date:** 1-17-24  
**Serial #:** 0928538411

Monitored Location	Time	PPM	Comments
Scale House	8:15 AM	0	
Admin Building	7:45 AM	0	
Operations Break Trailer	8:00 AM	0	

ND = No detection

**Immediately notify compliance personnel of any readings in excess of 1.25 percent methane**



## **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 February 27, 2024. 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 January 17, 2024. The instrument was calibrated on January 17, 2024, 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 January 17, 2024.

## **GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]**

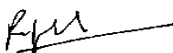
General weather conditions at the time of monitoring are presented in Table 3.

**Table 3 General Weather Conditions**

<b>Description</b>	<b>February 27, 2024</b>
<b>General conditions</b>	Overcast
<b>Avg Wind Speed (mph)</b>	1.2
<b>Wind Direction</b>	SSE
<b>Barometric Pressure, (Inches of Hg)</b>	30.0
<b>Ambient Low/High (Temperature Deg F)</b>	57/66

If you have any questions regarding this notification, please do not hesitate to contact me at [rphadnis@wm.com](mailto: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**



**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).

**ATTACHMENT C**

**FIELD DATA**

KCRDF Field Data February 2024

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	2/27/2024 7:45	0	0.1	21.5	78.4		51		N	7	G502468	FROBLES
KIRBP01A	2/27/2024 8:04	0	0.2	21.9	77.9	-0.05	51	29.22	N	7	G502468	FROBLES
KIRBP01B	2/27/2024 8:06	0	0.2	21.9	77.9	-0.05	51	29.22	N	7	G502468	FROBLES
KIRBP02A	2/27/2024 8:09	0	0.2	21.5	78.3	-0.03	51	29.03	N	7	G502468	FROBLES
KIRBP02B	2/27/2024 8:12	0	0.1	21.4	78.5	-0.04	51	29.03	N	7	G502468	FROBLES
KIRBP03A	2/27/2024 8:17	0	0.2	21.4	78.4	-0.06	51	28.9	N	7	G502468	FROBLES
KIRBP03B	2/27/2024 8:20	0	0.2	21.6	78.2	-0.09	51	28.89	N	7	G502468	FROBLES
KIRBP04A	2/27/2024 8:25	0	0.2	22	77.8	-0.06	51	28.77	N	7	G502468	FROBLES
KIRBP04B	2/27/2024 8:28	0	0.2	21.9	77.9	0.05	51	28.76	N	7	G502468	FROBLES
KIRBP05A	2/27/2024 8:32	0	0.2	21.3	78.5	-0.06	51	28.76	N	7	G502468	FROBLES
KIRBP05B	2/27/2024 8:35	0	0.2	21.3	78.5	-0.09	51	28.76	N	7	G502468	FROBLES
KIRBP06A	2/27/2024 8:39	0	0.2	21.6	78.2	-0.08	51	28.81	N	7	G502468	FROBLES
KIRBP06B	2/27/2024 8:42	0	0.2	21.7	78.1	-0.09	51	28.81	N	7	G502468	FROBLES
KIRBP07A	2/27/2024 8:46	0	0.2	21.8	78	0.03	51	28.72	N	7	G502468	FROBLES
KIRBP07B	2/27/2024 8:49	0	0.2	21.8	78	-0.06	51	28.72	N	7	G502468	FROBLES
KIRBP08A	2/27/2024 8:53	0	0.2	21.8	78	-0.03	51	28.83	N	7	G502468	FROBLES
KIRBP08B	2/27/2024 8:56	0	0.2	18	81.8	0.01	51	28.84	N	7	G502468	FROBLES
KIRBP09A	2/27/2024 9:04	0	0.3	17.9	81.8	-0.09	51	29.15	N	7	G502468	FROBLES
KIRBP09B	2/27/2024 9:07	0	0.3	20.1	79.6	-0.1	51	29.15	N	7	G502468	FROBLES
KIRBP10A	2/27/2024 9:14	0	0.3	20.4	79.3	-0.05	51	29.16	N	7	G502468	FROBLES
KIRBP10B	2/27/2024 9:17	0	0.3	20.1	79.6	-0.04	51	29.17	N	7	G502468	FROBLES
KIRBP11A	2/27/2024 9:21	0	0.3	20.8	78.9	-0.09	51	29.24	N	7	G502468	FROBLES
KIRBP11B	2/27/2024 9:23	0	0.3	20.8	78.9	-0.1	51	29.23	N	7	G502468	FROBLES
KIRBP12A	2/27/2024 7:57	0	0.2	21.8	78	-0.04	51	29.24	N	7	G502468	FROBLES
KIRBP12B	2/27/2024 7:59	0	0.2	21.9	77.9	-0.04	51	29.24	N	7	G502468	FROBLES
KIRBP14A	2/27/2024 7:51	0	0.1	21.6	78.3	-0.07	51	29.4	N	7	G502468	FROBLES
KIRBP14B	2/27/2024 7:53	0	0.1	21.8	78.1	-0.07	51	29.4	N	7	G502468	FROBLES

## Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles Date: 2/27/24  
 Instrument: Gem 5000 Serial #: G502468  
 Atmospheric Temperature (Deg F): 51  
 Barometric Pressure: 30.07 Inch of HG  
 Wind Speed: 7 MPH Wind Direction: NW  
 Weather Condition: Sunny

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	8:04am	0	-0.05	Ok	Ok	
KIRBP01B	8:06am	0	-0.05	Ok	Ok	
KIRBP02A	8:09am	0	-0.03	Ok	Ok	
KIRBP02B	8:12am	0	-0.04	Ok	Ok	
KIRBP03A	8:17am	0	-0.06	Ok	Ok	
KIRBP03B	8:20am	0	-0.09	Ok	Ok	
KIRBP04A	8:25am	0	-0.06	Ok	Ok	
KIRBP04B	8:28am	0	0.05	Ok	Ok	
KIRBP05A	8:32am	0	-0.06	Ok	Ok	
KIRBP05B	8:35am	0	-0.09	Ok	Ok	
KIRBP06A	8:39am	0	-0.08	Ok	Ok	
KIRBP06B	8:42am	0	-0.09	Ok	Ok	
KIRBP07A	8:46am	0	0.03	Ok	Ok	
KIRBP07B	8:49am	0	-0.06	Ok	Ok	
KIRBP08A	8:53am	0	-0.03	Ok	Ok	
KIRBP08B	8:56am	0	0.01	Ok	Ok	
KIRBP09A	9:04am	0	-0.09	Ok	Ok	
KIRBP09B	9:07am	0	-0.10	Ok	Ok	
KIRBP10A	9:14am	0	-0.05	Ok	Ok	



Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP10B	9:17am	0	-0.04	Ok	Ok	
KIRBP011A	9:21am	0	-0.09	Ok	Ok	
KIRBP011B	9:23am	0	-0.10	Ok	Ok	
KIRBP12A	7:57am	0	-0.04	Ok	Ok	
KIRBP12B	7:59am	0	-0.04	Ok	Ok	
KIRBP14A	7:51am	0	-0.07	Ok	Ok	
KIRBP14B	7:53am	0	-0.07	Ok	Ok	
KIRBP15	7:45am	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<sub>4</sub> = 12,500 ppm CH<sub>4</sub>

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

### STRUCTURE FID MONITORING DATA

**Analyst:** Tino Robles

**Date:** 1-17-24

**Instrument:** TVA

**Serial #:** 0928538411

Monitored Location	Time	PPM	Comments
Scale House	8:15 AM	0	
Admin Building	7:45 AM	0	
Operations Break Trailer	8:00 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	1-17-24	1500700086GAM	YES	Good Condition
Scale House	1-17-24	1819303476GCN	YES	Good Condition
Break Trailer	1-17-24	1819303478GCN	YES	Good Condition

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

# CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

Landfill Name: Kirby Canyon

Date: 1/17/24

Time: 6:45 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 = 502

3. Adjust meter to read 500 ppm.

## Background Determination Procedure

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

Calculate Background Value:

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

Performed by: Polks

# CALIBRATION PRECISION TEST RECORD

Date: 1/4/2024

Expiration Date (3 months): 4/4/2024

Time: 5:30 AM        PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Meter Reading for Zero Air:       0 ppm (a)

Meter Reading for Calibration Gas:       498 ppm (b)

Measurement #2:

Meter Reading for Zero Air:       0 ppm (c)

Meter Reading for Calibration Gas:       496 ppm (d)

Measurement #3:

Meter Reading for Zero Air:       0 ppm (e)

Meter Reading for Calibration Gas:       498 ppm (f)

Calculate Precision:

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

1.0 % (must be < than 10%)

Performed by: T. Robles

# RESPONSE TIME TEST RECORD

Date: 1/4/24

Expiration Date (3 months): 4/4/24

Time: 5:30 AM \_\_\_\_\_ PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 498 ppm  
90% of the Stabilized Reading: 470 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 496 ppm  
90% of the Stabilized Reading: 480 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: 498 ppm  
90% of the Stabilized Reading: 460 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 5 seconds (c)

Calculate Response Time:

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

Performed by: T.Robles



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

July 2, 2024

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

**Re: Second Quarter 2024 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 Second Quarter 2024 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.

## Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

Analyst: Tino Robles    Date: 4/17/24  
 Instrument: Gem 5000    Serial #: G502468  
 Atmospheric Temperature (Deg F): 51  
 Barometric Pressure: 30.03 Inch of HG  
 Wind Speed: 3 MPH                      Wind Direction: W  
 Weather Condition: Overcast

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	7:43am	0	-0.02	Ok	Ok	
KIRBP01B	7:46am	0	-0.05	Ok	Ok	
KIRBP02A	7:50am	0	0.02	Ok	Ok	
KIRBP02B	7:52am	0	0.02	Ok	Ok	
KIRBP03A	7:58am	0	-0.04	NO	Ok	Lock was replaced with new one.
KIRBP03B	8:02am	0	-0.02	NO	Ok	Lock was replaced with new one.
KIRBP04A	8:13am	0	0.01	NO	Ok	Cattle fencing was down on ground sent pictures to Becky.
KIRBP04B	8:16am	0	-0.02	NO	Ok	Rebuild fence before leaving adding protection around fencing later ok by DM
KIRBP05A	8:49am	0	0.00	Ok	Ok	
KIRBP05B	8:52am	0	-0.02	Ok	Ok	
KIRBP06A	8:57am	0	-0.04	Ok	Ok	
KIRBP06B	9:01am	0	-0.05	Ok	Ok	

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP07A	9:06am	0	0.01	NO	Ok	Lock was replaced with new one.
KIRBP07B	9:09am	0	0.05	NO	Ok	Lock was replaced with new one.
KIRBP08A	9:16am	0	0.07	Ok	Ok	
KIRBP08B	9:18am	0	0.03	Ok	Ok	
KIRBP09A	9:29am	0	-0.04	Ok	Ok	
KIRBP09B	9:07am	0	-0.00	Ok	Ok	
KIRBP10A	9:44am	0	0.01	Ok	Ok	
KIRBP10B	9:47am	0	0.00	Ok	Ok	
KIRBP011A	9:51am	0	0.03	Ok	Ok	
KIRBP011B	9:54am	0	-0.00	Ok	Ok	
KIRBP12A	1:02pm	0	-0.00	Ok	Ok	Prob reading taken on 4/11/2024
KIRBP12B	1:04pm	0	0.02	Ok	Ok	Prob reading taken on 4/11/2024
KIRBP14A	7:36am	0	-0.02	Ok	Ok	
KIRBP14B	7:39am	0	0.00	Ok	Ok	
KIRBP15	10:22am	0	-0.08	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<sub>4</sub> = 12,500 ppm CH<sub>4</sub>

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



## STRUCTURE FID MONITORING DATA

**Analyst:** Tino Robles  
**Instrument:** TVA

**Date:** 4-17-24  
**Serial #:** 0928538411

Monitored Location	Time	PPM	Comments
Scale House	6:20 AM	0	
Admin Building	6:00 AM	0	
Operations Break Trailer	6:30 AM	0	

ND = No detection

**Immediately notify compliance personnel of any readings in excess of 1.25 percent methane**

### 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 April 17, 2024. 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 April 17, 2024. The instrument was calibrated on April 17, 2024, 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 April 17, 2024.

### GENERAL WEATHER CONDITIONS [TITLE 27 §20934(a)(3)]

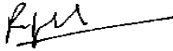
General weather conditions at the time of monitoring are presented in Table 3.

**Table 3 General Weather Conditions**

Description	April 11, 2024	April 17, 2024
<b>General conditions</b>	Scattered clouds	Broken clouds
<b>Avg Wind Speed (mph)</b>	0.6	0.6
<b>Wind Direction</b>	N	NW
<b>Barometric Pressure, (Inches of Hg)</b>	29.95	30.04
<b>Ambient Low/High (Temperature Deg F)</b>	55/75	55/73

If you have any questions regarding this notification, please do not hesitate to contact me at [rphadnis@wm.com](mailto:rphadnis@wm.com)

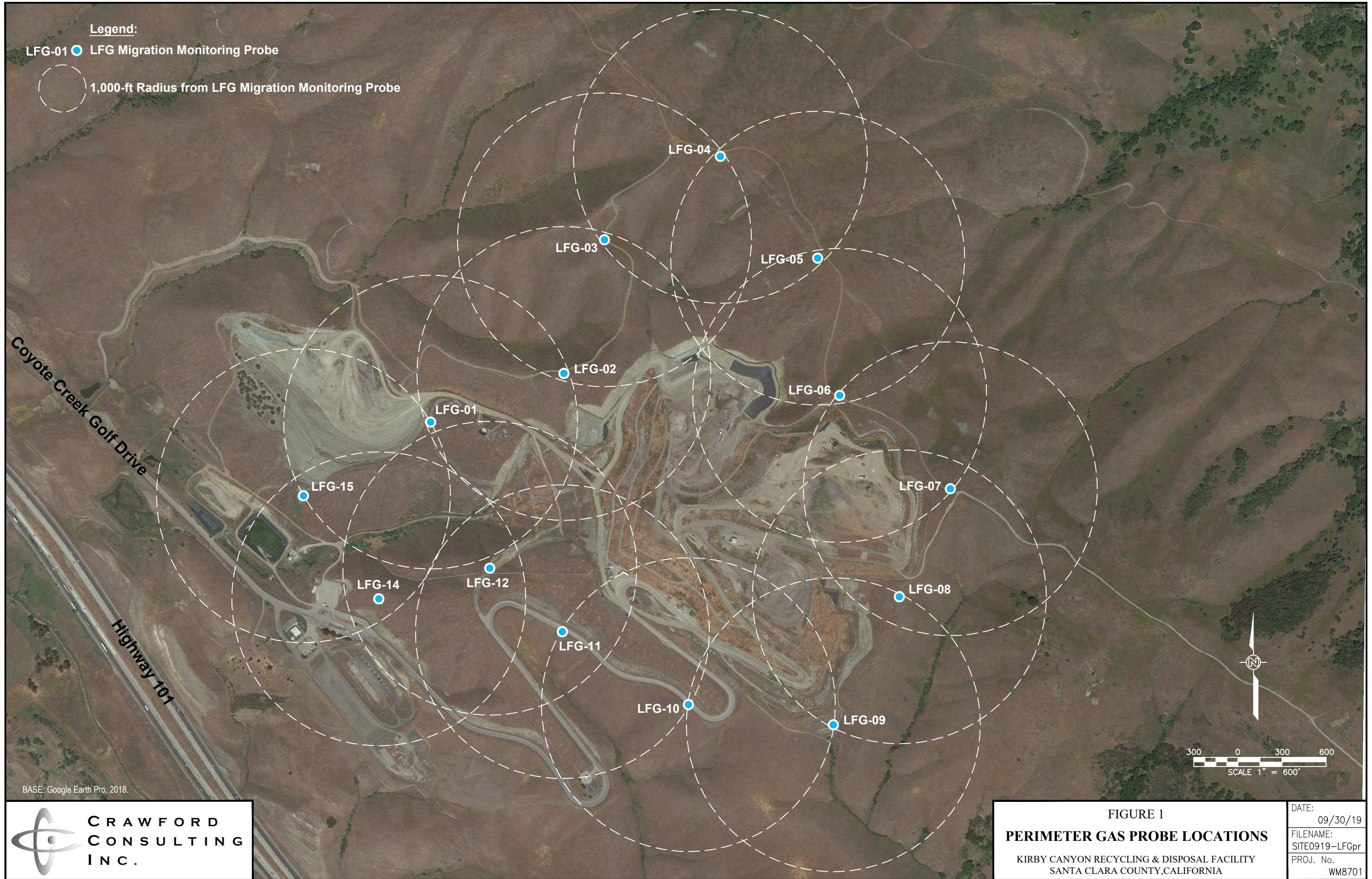
Thank you,  
**Waste Management,**

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

Rajan Phadnis  
EP Air Specialist- Northern California-Nevada  
Attachments: Perimeter Gas Probe Location Map  
KCRDF Field Data

**ATTACHMENT A**

**SITE MAP**



**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).

**ATTACHMENT C**

**FIELD DATA**

## Kirby Canyon Recycling and Disposal Facility Perimeter Gas Monitoring Probe Results

**Analyst:** Tino Robles    **Date:** 4/17/24  
**Instrument:** Gem 5000    **Serial #:** G502468  
**Atmospheric Temperature (Deg F):** 51  
**Barometric Pressure:** 30.03    **Inch of HG**  
**Wind Speed:** 3 MPH    **Wind Direction:** W  
**Weather Condition:** Overcast

Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP01A	7:43am	0	-0.02	Ok	Ok	
KIRBP01B	7:46am	0	-0.05	Ok	Ok	
KIRBP02A	7:50am	0	0.02	Ok	Ok	
KIRBP02B	7:52am	0	0.02	Ok	Ok	
KIRBP03A	7:58am	0	-0.04	NO	Ok	Lock was replaced with new one.
KIRBP03B	8:02am	0	-0.02	NO	Ok	Lock was replaced with new one.
KIRBP04A	8:13am	0	0.01	NO	Ok	Cattle fencing was down on ground sent pictures to Becky.
KIRBP04B	8:16am	0	-0.02	NO	Ok	Rebuild fence before leaving adding protection around fencing later ok by DM
KIRBP05A	8:49am	0	0.00	Ok	Ok	
KIRBP05B	8:52am	0	-0.02	Ok	Ok	
KIRBP06A	8:57am	0	-0.04	Ok	Ok	
KIRBP06B	9:01am	0	-0.05	Ok	Ok	
KIRBP07A	9:06am	0	0.01	NO	Ok	Lock was replaced with new one.
KIRBP07B	9:09am	0	0.05	NO	Ok	Lock was replaced with new one.
KIRBP08A	9:16am	0	0.07	Ok	Ok	
KIRBP08B	9:18am	0	0.03	Ok	Ok	
KIRBP09A	9:29am	0	-0.04	Ok	Ok	
KIRBP09B	9:07am	0	-0.00	Ok	Ok	
KIRBP10A	9:44am	0	0.01	Ok	Ok	



Probe ID	Time	CH <sub>4</sub> (%)	Probe Pressure (in-H <sub>2</sub> O)	Probe Condition (clean, capped, locked)		Comments
				Arrival	Departure	
KIRBP10B	9:47am	0	0.00	Ok	Ok	
KIRBP011A	9:51am	0	0.03	Ok	Ok	
KIRBP011B	9:54am	0	-0.00	Ok	Ok	
KIRBP12A	1:02pm	0	-0.00	Ok	Ok	Prob reading taken on 4/11/2024
KIRBP12B	1:04pm	0	0.02	Ok	Ok	Prob reading taken on 4/11/2024
KIRBP14A	7:36am	0	-0.02	Ok	Ok	
KIRBP14B	7:39am	0	0.00	Ok	Ok	
KIRBP15	10:22am	0	-0.08	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<sub>4</sub> = 12,500 ppm CH<sub>4</sub>

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

### STRUCTURE FID MONITORING DATA

**Analyst:** Tino Robles

**Date:** 4-17-24

**Instrument:** TVA

**Serial #:** 0928538411

Monitored Location	Time	PPM	Comments
Scale House	6:20 AM	0	
Admin Building	6:00 AM	0	
Operations Break Trailer	6:30 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	4-17-24	1500700086GAM	YES	Good Condition
Scale House	4-17-24	1819303476GCN	YES	Good Condition
Break Trailer	4-17-24	1819303478GCN	YES	Good Condition

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

**CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION  
REPORT**

Landfill Name: Kirby Canyon

Date: 4/17/24

Time: 5:45 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 = 500
3. Adjust meter to read 500 ppm.

Background Determination Procedure

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

Calculate Background Value:

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

Performed by: RMS

---

# RESPONSE TIME TEST RECORD

Date: 4/1/24

Expiration Date (3 months): 7/1/24

Time: 5:50 AM        PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

Measurement #1:

Stabilized Reading Using Calibration Gas: 500 ppm  
90% of the Stabilized Reading: 480 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 10 seconds (a)

Measurement #2:

Stabilized Reading Using Calibration Gas: 499 ppm  
90% of the Stabilized Reading: 495 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: 485 ppm  
Time to Reach 90% of Stabilized Reading after  
switching from Zero Air to Calibration Gas: 10 seconds (c)

Calculate Response Time:

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

Performed by: T.Robles

# CALIBRATION PRECISION TEST RECORD

Date: 4/1/2024

Expiration Date (3 months): 7/1/2024

Time: 5:50 AM        PM

Instrument Make: Thermo Scientific Model: TVA 1000 S/N: 0928538411

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: 502 ppm (d)

Measurement #3:

Meter Reading for Zero Air: 0 ppm (e)

Meter Reading for Calibration Gas: 501 ppm (f)

Calculate Precision:

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

1.0 % (must be < than 10%)

Performed by: T. Robles

## **APPENDIX O**

### **A-12 FLARE PERFORMANCE TEST SUMMARY OF RESULTS**

# **Kirby Canyon Recycling and Disposal Facility**

**BAAQMD Facility # 1812**

## **Compliance Test Report #24065**

**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](mailto: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](mailto:gespena@baaqmd.gov)/[mhernandez@baaqmd.gov](mailto:mhernandez@baaqmd.gov)  
[sourcetest@baaqmd.gov](mailto:sourcetest@baaqmd.gov)

Testing Performed on:

**February 14, 2024**

Final Report Submitted on:

**April 11, 2024**

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](mailto: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.

---

Jeramie Richardson

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.

The results of the test program are presented in this report. The source test information is summarized in Table 1-1. Test results derived from the source test are summarized in Table 1-2. Results for individual test runs are provided in Appendix A. The flare met all compliance emission criteria.

**Table 1-1 Source Test Information**

<b>Test Location:</b>	Kirby Canyon Recycling and Disposal Facility (KCRDF) 910 Coyote Creek Drive, Morgan Hill, CA 95037
<b>Source Contact:</b>	Maria Bowen, SCS Engineers (619) 455-9518
<b>Source Tested:</b>	Flare A-12 – 129 MMBtu/hr LFG Specialties, Inc. enclosed landfill gas flare
<b>Source Test Date:</b>	February 14, 2024
<b>Test Objective:</b>	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.
<b>Test Performed by:</b>	Blue Sky Environmental, Inc. 2273 Lobert Street, Castro Valley, CA 94546 Jaime Rios (925) 482-4504 <a href="mailto:bluesky@blueskyenvironmental.com">bluesky@blueskyenvironmental.com</a>
<b>Test Parameters:</b>	<u>Landfill Gas</u> O <sub>2</sub> , N <sub>2</sub> , CO <sub>2</sub> , BTU, THC, CH <sub>4</sub> , NMOC, HHV, F-Factor, sulfur and VOC species, volumetric flow rate <u>Flare Emissions</u> THC, CH <sub>4</sub> , NMOC, NO <sub>x</sub> , CO, O <sub>2</sub> , SO <sub>2</sub> , moisture, volumetric flow rate.



**Table 1-2 Compliance Summary**

**Condensate ON**

<b>Emission Parameter</b>	<b>Average Results (Flare A-12)</b>	<b>Permit Limit</b>	<b>Compliance Status</b>
NO <sub>x</sub> , lb/MMBtu	0.0439	0.06	In Compliance
CO, lb/MMBtu	0.0704	0.3	In Compliance
SO <sub>2</sub> , ppmvd	53.8	300	In Compliance
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.5	30	In Compliance
NMOC Destruction Efficiency, %	>98.72%	>98%	In Compliance
CH <sub>4</sub> Destruction Efficiency, %	>99.97%	>99%	In Compliance

**Condensate OFF**

<b>Emission Parameter</b>	<b>Average Results (Flare A-12)</b>	<b>Permit Limit</b>	<b>Compliance Status</b>
NO <sub>x</sub> , lb/MMBtu	0.0383	0.06	In Compliance
CO, lb/MMBtu	0.0619	0.3	In Compliance
SO <sub>2</sub> , ppmvd	67.0	300	In Compliance
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.5	30	In Compliance
NMOC Destruction Efficiency, %	>98.68%	>98%	In Compliance
CH <sub>4</sub> 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 <sub>2</sub> and CO <sub>2</sub> , Stack Gas Molecular Weight
EPA Method 10	CO
EPA Method 7E	NO <sub>x</sub> and NO <sub>2</sub> Converter Check
EPA Method 4	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 <sub>2</sub> S) and TRS
EPA Method TO-15	Toxic Organic Compounds

### 2.3. Test Date

Testing was conducted on February 14, 2024.

### 2.4. Sampling and Observing Personnel

Testing was conducted by Jaime Rios and Vince Gigli, representing Blue Sky Environmental, Inc.

Ben Traver of SCS Engineers was present to operate the flare and assist in coordinating testing and the collection of process data during testing.

BAAQMD was notified of the scheduled testing in a source test plan submitted by SCS Engineers on behalf of Waste Management on January 10, 2024 (NST-9007). 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 Morgan Hill, 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 129 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  $\leq 1.5\%$ . 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 0.82 gallons per minute (gpm) while in the “on” position.

The average exhaust temperature at normal operating condition was 1,462 °F. The LFG flow rate ranged from 2,056 to 2,075 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 48.8% and an oxygen content of 2.1%.



## 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<sub>2</sub> 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<sub>x</sub>), nitric oxide (NO), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), oxygen (O<sub>2</sub>), methane (CH<sub>4</sub>) and non-methane organic compounds (NMOC) 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 NO<sub>x</sub> analyzer converter efficiency check was performed before the first test run and achieved an efficiency greater than 90%.

Concurrent with the exhaust sampling, Blue Sky collected a total of 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<sub>2</sub>S 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<sup>1</sup>-C<sup>6+</sup> hydrocarbons by EPA Method 25C and ASTM D-1945.



The sampling and analysis procedures are summarized below:

**EPA Method 1 – Sample and Velocity Traverses for Stationary Sources**

This method is used to determine the duct or stack area and appropriate traverse points that represent equal areas of the duct for sampling and velocity measurements.

**EPA Method 3A – Determination of Oxygen and Carbon Dioxide Concentrations in Emissions from Stationary Sources (Instrumental Analyzer Procedure)**

This method is used to measure oxygen and carbon dioxide in stationary source emissions using a continuous instrumental analyzer to determine the molecular weight of the stack gas. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. A small portion of the sample is passed through a fuel cell type paramagnetic oxygen analyzer which measures the electrical current generated by the oxidation reaction at the gas/fuel cell interface. Carbon dioxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon dioxide absorbs infrared radiation.

**EPA Method 7E – Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)**

This method is used to measure nitrogen oxides in stationary source emissions using a continuous instrumental analyzer. A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Nitric oxide is determined by passing the sample through a chemiluminescent analyzer. The chemiluminescent process is based on the light given off when nitric oxide and ozone react. Nitrogen dioxide (NO<sub>2</sub>) concentrations are determined by passing the sample through a catalyst which reduces the NO<sub>2</sub> to NO. The total oxides of nitrogen concentration (NO<sub>2</sub> + NO) is then determined by chemiluminescence.

Section 16.2.2 of the method is used to determine the NO<sub>x</sub> analyzer NO<sub>2</sub> to NO conversion efficiency.

**EPA Method 10 – Determination of Carbon Monoxide Emissions from Stationary Sources**

This method is used to measure carbon monoxide from integrated or continuous gas samples extracted from a sampling point. . A continuous representative gas sample is extracted from the sampling point and conditioned to remove water and particulate material. Carbon monoxide is determined by passing the sample through a non-dispersive infrared analyzer (NDIR) tuned to a frequency at which carbon monoxide absorbs infrared radiation.

EPA Methods 3A, 7E and 10 are all continuous monitoring techniques using instrumental analyzers. Sampling is performed by extracting exhaust flue gas from the stack, conditioning the sample, and analyzing it by continuous monitoring gas analyzers in a continuing emissions monitoring (CEM) test van. The sampling system consists of a stainless steel sample probe, Teflon sample line, glass-fiber particulate filter, and glass moisture-knockout condensers in ice, followed by thermoelectric coolers (optional), Teflon sample transfer tubing, a diaphragm pump, and a stainless steel/Teflon manifold and flow control/delivery system. A constant sample and calibration gas supply pressure of 5 PSI is provided to each analyzer to avoid pressure variable response differences. The entire sampling system is leak checked prior to and at the end of the sampling program.



The sampling and analytical system is checked for linearity with zero, mid (40-60%) and high span (80-100%) calibrations and is checked for system bias at the beginning and end of each run. System bias is determined by introducing calibration gas to the probe and pulling it through the entire sampling system. Individual test run calibrations use the calibration gas that most closely matches the stack gas effluent. All calibrations during testing are performed externally to incorporate any system bias that may exist. Sampling system bias, zero and calibration drift values are determined for each test. EPA Methods 3A, 7E and 10 all defer to EPA Method 7E for the calculations of effluent concentration, span, calibration gas, analyzer calibration error (linearity), sampling system bias, zero drift, calibration drift and response time.

#### **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<sub>2</sub> are flushed through and removed then the NMOC (ROC) fraction is oxidized to form CO<sub>2</sub> then reduced to methane and analyzed.

### **ASTM D1945 – Analysis of Natural Gas by Gas Chromatography**

This method is used to measure fixed gases (such as oxygen, nitrogen, carbon monoxide, and carbon dioxide) and methane by gas chromatography (GC/TCD). Light hydrocarbons, including C1-C7, are analyzed by GC/FID.

### **ASTM D-3588 – Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels**

This method uses the molar composition of gaseous fuel determined from Method ASTM D-1945 to calculate the heating value and F-factor.

### **ASTM D-5504 – Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence**

This method is used for the determination of speciated volatile sulfur-containing compounds in high methane content gaseous fuels by gas chromatography. Sulfur compounds are processed using a flame ionization detector (GC/FID). The products are then analyzed with a sulfur chemiluminescence detector (GC/SCD). Samples may be collected in Tedlar bags and analyzed within 24 hours or in Silco SUMMA canisters and analyzed 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 <sub>x</sub> /NO/NO <sub>2</sub>	Chemiluminescence
TECO Model 48C	CO	Gas Filter Correlation/IR
TECO Model 55C	NMOC/CH <sub>4</sub>	Flame Ionization (FID)
Servomex Model 1400	CO <sub>2</sub>	Infrared (IR)
Servomex Model 1400	O <sub>2</sub>	Paramagnetic

### 3.6. System Performance Criteria

The analyzer data recording system consists of a data acquisition system (DAS). The instrument response was recorded on 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 <sub>x</sub> Converter Efficiency ( <i>EPA Method 7E</i> )	≥ 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, Inc. 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**
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**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	2/14/24	2/14/24	2/14/24		
Test Time	0859-0936	1014-1052	1132-1209		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,462	1,462	1,462	1,462	>1,400
<b>Fuel:</b>					
Condensate Injection, gpm	0.83	0.82	0.82	0.82	
Fuel Flow Rate, SCFM	2,056	2,060	2,062	2,059	
Fuel Heat Input, MMBtu/hr	55.7	59.1	61.0	58.6	
<b>Stack Gas:</b>					
Exhaust Flow Rate, DSCFM (EPA Method 19)	24,885	25,131	24,593	24,869	
Oxygen (O <sub>2</sub> ), % volume dry	13.5	13.1	12.7	13.1	
Carbon Dioxide (CO <sub>2</sub> ), % volume dry	6.47	6.87	7.31	6.88	
Water Vapor (H <sub>2</sub> O), % volume (EPA Method 4)	6.95	6.52	6.17	6.55	
<b>NO<sub>x</sub> Emissions (calculated as NO<sub>2</sub>):</b>					
NO <sub>x</sub> , ppmvd	12.6	14.7	16.4	14.6	
NO <sub>x</sub> , ppmvd @ 15% O <sub>2</sub>	10.0	11.1	11.8	11.0	
NO <sub>x</sub> , lb/hr	2.23	2.64	2.88	2.58	
NO <sub>x</sub> , lb/MMBtu	0.0401	0.0446	0.0472	0.0439	0.06
<b>CO Emissions:</b>					
CO, ppmvd	31.1	47.5	36.2	38.2	
CO, ppmvd @ 15% O <sub>2</sub>	24.7	36.0	26.0	28.9	
CO, lb/hr	3.36	5.18	3.86	4.13	
CO, lb/MMBtu	0.0603	0.0877	0.0633	0.0704	0.3
<b>SO<sub>2</sub> Emissions:</b>					
Total Reduced Sulfurs as H <sub>2</sub> S, ppmvd in Fuel	288	781	879	649	
SO <sub>2</sub> , ppmvd (calculated)	23.8	64.0	73.7	53.8	300
<b>Methane (CH<sub>4</sub>) Emissions:</b>					
CH <sub>4</sub> , ppmvd wet (EPA Method 25A)	<10.0	<10.0	<10.0	<10.0	
CH <sub>4</sub> , ppmvd dry	<10.7	<10.7	<10.7	<10.7	
CH <sub>4</sub> , lb/hr	<0.664	<0.670	<0.656	<0.663	
<b>NMOC Emissions (calculated as CH<sub>4</sub>):</b>					
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 <sub>2</sub>	<2.6	<2.5	<2.3	<2.5	30*
NMOC, lb/hr	<0.066	<0.067	<0.066	<0.066	
<b>THC Emissions (reported as CH<sub>4</sub>):</b>					
THC, ppmvd (Sum NMOC + CH <sub>4</sub> )	<11.8	<11.8	<11.8	<11.8	
THC, lb/hr	<0.730	<0.737	<0.722	<0.730	
<b>Inlet Hydrocarbons (calculated as CH<sub>4</sub>):</b>					
Inlet CH <sub>4</sub> , ppmvd	454,000	481,000	496,000	477,000	
Inlet CH <sub>4</sub> , lb/hr	2,317	2,460	2,539	2,439	
<b>CH<sub>4</sub> Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet NMOC (EPA Method 25C)	960	1,012	1,085	1,019	
Inlet NMOC, lb/hr	4.90	5.18	5.55	5.21	
<b>NMOC Destruction Efficiency, %</b>	>98.65%	>98.70%	>98.82%	>98.72%	>98%*
Inlet THC, ppmvd	454,960	482,012	497,085	478,019	
Inlet THC, lb/hr	2,322	2,465	2,544	2,444	
<b>THC Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.97%	>99.97%	

\* NMOC emission limits are 30 ppmvd @ 3% O<sub>2</sub> 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<sub>x</sub> = oxides of nitrogen, reported as NO<sub>2</sub> (MW = 46)  
 CO = carbon monoxide (MW = 28)  
 CH<sub>4</sub> = methane (MW = 16)  
 THC = total hydrocarbons reported as CH<sub>4</sub> (MW = 16)  
 NMOC = non-methane organic compounds reported as CH<sub>4</sub> (MW = 16)

**CALCULATIONS:**

ppm @ 15% O<sub>2</sub> = ppm · 5.9 / (20.9 - %O<sub>2</sub>)  
 ppm @ 3% O<sub>2</sub> = ppm · 17.9 / (20.9 - %O<sub>2</sub>)  
 lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R  
 lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9 / (20.9 - %O<sub>2</sub>)  
 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<sub>2</sub>)

**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		2/14/24	2/14/24	2/14/24	-
Acrylonitrile	ppb	<46.8	<48.9	<47.0	<47.6
Bromodichloromethane	ppb	<46.8	<48.9	<47.0	<47.6
Carbon Tetrachloride	ppb	<46.8	<48.9	<47.0	<47.6
Chlorobenzene	ppb	150	163	172	162
Chlorodifluoromethane	ppb	189	186	202	192
Chloromethane	ppb	<46.8	<48.9	<47.0	<47.6
Chloroethane	ppb	184	199	211	198
Chloroform	ppb	<46.8	<48.9	<47.0	<47.6
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<46.8	<48.9	<47.0	<47.6
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<46.8	<48.9	<47.0	<47.6
1,2 Dichloroethane (Ethylene Dichloride)	ppb	<46.8	<48.9	<47.0	<47.6
1,2 Dichloropropane	ppb	<46.8	<48.9	<47.0	<47.6
1,4 Dichlorobenzene	ppb	757	818	865	813
Dichlorodifluoromethane	ppb	89.9	92.9	<47.0	76.6
Dichlorofluoromethane	ppb	160	172	193	175
1,4 Dioxane	ppb	<93.7	<98	<94.0	<95.1
Ethanol	ppb	13,600	12,500	14,900	13,667
Ethylbenzene	ppb	4,300	4,580	4,750	4,543
Ethylene Dibromide (1,2 Dibromoethane)	ppb	<46.8	<48.9	<47.0	<47.6
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	143	150	160	151
Hexane	ppb	651	696	767	705
Isopropyl Alcohol (IPA)	ppb	9,500	10,200	5,500	8,400
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	10,400	9,770	10,500	10,223
Methylene Chloride	ppb	<93.7	<98	<94.0	<95.1
Methyl isobutyl ketone (MiBK)	ppb	1,090	1,140	1,300	1,177
Perchloroethylene (Tetrachloroethylene)	ppb	131	137	158	142
1,1,1 Trichloroethane	ppb	<46.8	<48.9	<47.0	<47.6
1,1,2,2 Tetrachloroethane	ppb	<46.8	<48.9	<47.0	<47.6
trans-1,2-Dichloroethane	ppb	<46.8	<48.9	<47.0	<47.6
Trichloroethylene (Trichloroethene)	ppb	<108.0	<111.0	<121.0	<113.3
Vinyl Chloride	ppb	<46.8	<48.9	<47.0	<47.6
Xylenes	ppb	9,410	9,960	10,430	9,933
Ethane	ppm	5.99	6.17	3.20	5.12
Propane	ppm	15.1	15.2	3.7	11.3
Butane	ppm	6.20	5.72	5.28	5.73
Pentane	ppm	12.2	12.4	7.3	10.6
Carbon Disulfide	ppm	<0.094	<0.098	0.246	<0.146
Carbonyl Sulfide (COS/SO <sub>2</sub> )	ppm	<0.094	<0.098	<0.094	<0.095
Dimethyl Sulfide	ppm	2.38	2.23	2.38	2.33
Ethyl Mercaptan	ppm	<0.094	<0.098	0.480	<0.224
Methyl Mercaptan	ppm	4.11	4.660	5.38	4.72
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	276	766	863	635
Total Reduced Sulfurs as H <sub>2</sub> S	ppm	288	781	879	649

**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	2/14/24	2/14/24	2/14/24		
Test Time	1236-1313	1339-1418	1441-1516		
Standard Temperature, °F	70	70	70		
Flare Temperature, °F Average	1,462	1,462	1,462	1,462	>1,400
<b>Fuel:</b>					
Condensate Injection, gpm	0.00	0.00	0.00	0.00	
Fuel Flow Rate, SCFM	2,069	2,075	2,073	2,072	
Fuel Heat Input, MMBtu/hr	62.0	61.9	61.5	61.8	
<b>Stack Gas:</b>					
Exhaust Flow Rate, DSCFM (EPA Method 19)	25,036	25,494	25,184	25,238	
Oxygen (O <sub>2</sub> ), % volume dry	12.7	12.9	12.8	12.8	
Carbon Dioxide (CO <sub>2</sub> ), % volume dry	7.26	7.19	7.22	7.22	
Water Vapor (H <sub>2</sub> O), % volume (EPA Method 4)	6.81	6.19	5.75	6.25	
<b>NO<sub>x</sub> Emissions (calculated as NO<sub>2</sub>):</b>					
NO <sub>x</sub> , ppmvd	13.3	13.0	13.2	13.1	
NO <sub>x</sub> , ppmvd @ 15% O <sub>2</sub>	9.6	9.5	9.6	9.6	
NO <sub>x</sub> , lb/hr	2.4	2.4	2.4	2.4	
NO <sub>x</sub> , lb/MMBtu	0.0383	0.0382	0.0385	0.0383	0.06
<b>CO Emissions:</b>					
CO, ppmvd	31.7	42.1	30.7	34.8	
CO, ppmvd @ 15% O <sub>2</sub>	22.8	31.0	22.4	25.4	
CO, lb/hr	3.45	4.67	3.35	3.82	
CO, lb/MMBtu	0.0556	0.0754	0.0546	0.0619	0.3
<b>SO<sub>2</sub> Emissions:</b>					
Total Reduced Sulfurs as H <sub>2</sub> S, ppmvd in Fuel	978	660	809	816	
SO <sub>2</sub> , ppmvd (calculated)	80.8	53.7	66.6	67.0	300
<b>Methane (CH<sub>4</sub>) Emissions:</b>					
CH <sub>4</sub> , ppmvd wet (EPA Method 25.A)	<10.0	<10.0	<10.0	<10.0	
CH <sub>4</sub> , ppmvd dry	<10.7	<10.7	<10.7	<10.7	
CH <sub>4</sub> , lb/hr	<0.667	<0.679	<0.671	<0.672	
<b>NMOC Emissions (calculated as CH<sub>4</sub>):</b>					
NMOC, ppmv wet (EPA Method 25.A)	<1.0	1.2	<1.0	<1.1	
NMOC, ppmvd	<1.1	1.2	<1.1	<1.1	
NMOC, ppmvd @ 3% O <sub>2</sub>	<2.3	2.8	<2.4	<2.5	30*
NMOC, lb/hr	<0.067	0.079	<0.067	<0.071	
<b>THC Emissions (reported as CH<sub>4</sub>):</b>					
THC, ppmvd (Sum NMOC + CH <sub>4</sub> )	<11.8	<12.0	<11.8	<11.9	
THC, lb/hr	<0.734	<0.758	<0.738	<0.743	
<b>Inlet Hydrocarbons (calculated as CH<sub>4</sub>):</b>					
Inlet CH <sub>4</sub> , ppmvd	502,000	500,000	497,000	499,667	
Inlet CH <sub>4</sub> , lb/hr	2,578	2,576	2,558	2,570	
<b>CH<sub>4</sub> Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.97%	>99.97%	>99%
Inlet NMOC (EPA Method 25C)	780	1,157	1,332	1,090	
Inlet NMOC, lb/hr	4.01	5.96	6.85	5.61	
<b>NMOC Destruction Efficiency, %</b>	>98.34%	>98.68%	>99.02%	>98.68%	>98%*
Inlet THC, ppmvd	502,780	501,157	498,332	500,756	
Inlet THC, lb/hr	2,582	2,581	2,564	2,576	
<b>THC Destruction Efficiency, %</b>	>99.97%	>99.97%	>99.97%	>99.97%	

\* NMOC emission limits are 30 ppmvd @ 3% O<sub>2</sub> 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<sub>x</sub> = oxides of nitrogen, reported as NO<sub>2</sub> (MW = 46)  
 CO = carbon monoxide (MW = 28)  
 CH<sub>4</sub> = methane (MW = 16)  
 THC = total hydrocarbons reported as CH<sub>4</sub> (MW = 16)  
 NMOC = non-methane organic compounds reported as CH<sub>4</sub> (MW = 16)

**CALCULATIONS:**

ppm @ 15% O<sub>2</sub> = ppm · 5.9 / (20.9 - %O<sub>2</sub>)  
 ppm @ 3% O<sub>2</sub> = ppm · 17.9 / (20.9 - %O<sub>2</sub>)  
 lb/hr = ppm · 8.223 E-05 · DSCFM · MW / Tstd. °R  
 lb/MMBtu = Fd · MW · ppm · 2.59E-9 · 20.9 / (20.9 - %O<sub>2</sub>)  
 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<sub>2</sub>)

**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		2/14/24	2/14/24	2/14/24	-
Acrylonitrile	ppb	<44.7	<46.0	<40.2	<43.6
Bromodichloromethane	ppb	<44.7	<46.0	<40.2	<43.6
Carbon Tetrachloride	ppb	<44.7	<46.0	<40.2	<43.6
Chlorobenzene	ppb	188	183	184	185
Chlorodifluoromethane	ppb	217	222	220	220
Chloromethane	ppb	<44.7	<46.0	<40.2	<43.6
Chloroethane	ppb	246	223	204	224
Chloroform	ppb	<44.7	<46.0	<40.2	<43.6
1,1 Dichloroethane (Ethylidene Dichloride)	ppb	<44.7	<46.0	<40.2	<43.6
1,1 Dichloroethene (Vinylidene Chloride)	ppb	<44.7	<46.0	<40.2	<43.6
1,2 Dichloroethane (Ethylene Dichloride)	ppb	<44.7	<46.0	<40.2	<43.6
1,2 Dichloropropane	ppb	48.3	<46.0	49.9	48.1
1,4 Dichlorobenzene	ppb	944	866	785	865
Dichlorodifluoromethane	ppb	<44.7	104	105	85
Dichlorofluoromethane	ppb	207	195	194	199
1,4 Dioxane	ppb	<89.4	<91.9	<80.5	<87.3
Ethanol	ppb	15,000	24,100	16,600	18,567
Ethylbenzene	ppb	5,020	4,840	4,690	4,850
Ethylene Dibromide (1,2 Dibromoethane)	ppb	<44.7	<46.0	<40.2	<43.6
Fluorotrichloromethane (Trichlorofluoromethane)	ppb	178	169	163	170
Hexane	ppb	824	794	793	804
Isopropyl Alcohol (IPA)	ppb	5,840	5,990	6,130	5,987
Methyl Ethyl Ketone (MEK) (2-Butanone)	ppb	10,100	11,200	11,300	10,867
Methylene Chloride	ppb	<89.4	<91.9	<80.5	<87.3
Methyl isobutyl ketone (MiBK)	ppb	1,310	1,260	1,260	1,277
Perchloroethylene (Tetrachloroethylene)	ppb	162	158	161	160
1,1,1 Trichloroethane	ppb	<44.7	<46.0	<40.2	<43.6
1,1,2,2 Tetrachloroethane	ppb	<44.7	<46.0	<40.2	<43.6
trans-1,2-Dichloroethane	ppb	<44.7	<46.0	<40.2	<43.6
Trichloroethylene (Trichloroethene)	ppb	124	123	113	120
Vinyl Chloride	ppb	69.8	<46.0	62.0	59.3
Xylenes	ppb	11,020	10,670	10,230	10,640
Ethane	ppm	6.41	5.98	6.20	6.20
Propane	ppm	17.8	17.6	17.8	17.7
Butane	ppm	7.51	7.97	8.12	7.87
Pentane	ppm	15.1	14.0	13.5	14.2
Carbon Disulfide	ppm	0.258	<0.092	<0.080	<0.143
Carbonyl Sulfide (COS/SO <sub>2</sub> )	ppm	<0.089	<0.092	<0.080	<0.087
Dimethyl Sulfide	ppm	3.19	2.34	2.64	2.72
Ethyl Mercaptan	ppm	0.584	<0.092	<0.080	<0.252
Methyl Mercaptan	ppm	6.39	4.77	5.30	<sup>18</sup> 5.49
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	959	646	794	800



**APPENDIX P**

**A-12 FLARE 12-MONTH SULFUR DIOXIDE EMISSIONS LOG**

**12-MONTH CONSECUTIVE SO<sub>x</sub> Emission Rate (Tons/Year) :2023-2024  
Kirby Canyon Recycling & Disposal Facility**

**Plant #1812, Condition 1437 Item 20**

<b>Month</b>	<b>SO<sub>2</sub> (Tons/Month)</b>	<b>SO<sub>2</sub> (12- Months Tons)</b>
January-24	4.5	40.2
February-24	4.4	42.7
March-24	4.0	45.0
April-24	5.9	49.0
May-24	6.1	51.2
June-24	6.0	53.2

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 SO<sub>2</sub> 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 SO<sub>2</sub> emissions in tons.

Appendix P includes table with SO<sub>2</sub> 12-month tons during the reporting period. The sulfur dioxide emissions from A-12 did not exceed 94.9 tons per year.